FINAL SITE CHARACTERIZATION REPORT

Remedial Investigation Part 1,
At Acid Areas 2 & 3

Former Plum Brook Ordnance Works
Sandusky, Ohio

Prepared for:

DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
NASHVILLE, TENNESSEE
CONTRACT DACW62-03-D-0004-0004

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COMPLETION OF INDEPENDENT TECHNICAL REVIEW

Jacobs Engineering Group, Inc. has completed the Final Site Characterization Report, Remedial Investigation Part 1, At Acid Areas 2 & 3, Former Plum Brook Ordnance Works, Sandusky, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project, as defined in the Quality Control Plan. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of assumptions; methods, procedures, and material used in analyses; alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing Corps policy.

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Jacobs Interim Final Site Characterization Report Author

CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW

All comments provided by various PBOW team member reviews have been addressed and are presented in Appendix L.

Comment: None – see Appendix L for responses to PBOW team member review comments.

Comment:

Comment:

Comment:

Comment:

All concerns resulting from independent technical review of the project have been considered.

Al Hardesty
(Signature)
(Project Manager)

March 21, 2007
(Date)

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LIST OF ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
ASTM	American Society for Testing and Materials
AA2	Acid Area 2
AA3	Acid Area 3
bgs	below ground surface
CELRN	U.S. Army Corps of Engineers – Nashville District
COC	Chain of custody
CSM	Conceptual Site Model
DERP	Defense Environmental Restoration Program
DI	deionized
DNT	dinitrotoluene
DOD	U.S. Department of Defense
DPT	direct push technology
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
°F	degrees Fahrenheit
FSP	Field Sampling Plan
ft	feet
gpm	gallons per minute
ID	inner diameter
IDW	investigation-derived wastes
IT	International Technology Corporation
Jacobs	Jacobs Engineering Group
NASA	National Aeronautics and Space Administration
OEPA	Ohio Environmental Protection Agency
PA	preliminary assessment
PAH	polynuclear aromatic hydrocarbon
PBOW	Plum Brook Ordnance Works
PBOSG	Plum Brook Operations Support Group
PCB	polychlorinated biphenyls
PCE	Tetrachloroethane
PID	photoionization detector
PPE	personal protective equipment
PRG	preliminary remediation goal
PVC	polyvinylchloride
QA	quality assurance
RBC	risk-based concentration
RI	remedial investigation
SAIC	Science Application International Corporation
SAP	Sampling and Analysis Plan
Shaw	Shaw Environmental, Inc.
SI	site investigation
SVOC	semi-volatile organic compound
SWSAP	Site Wide Sampling and Analysis Plan
TAL	Target Analyte List
TCE	1,1,2-Trichloroethane
TCLP	toxicity characteristic leaching procedure
TNT	trinitrotoluene
VOC	volatile organic compound

EXECUTIVE SUMMARY

This report addresses the findings of sampling conducted as part of a remedial investigation performed at Acid Areas 2 and 3 (AA2 and AA3), located at the former Plum Brook Ordnance Works (PBOW), Sandusky, Ohio. The scope of this Part 1 document does not include a human health or ecological risk assessment, however the collected data will support a human health risk assessment to be performed at a later date.

PBOW was built in early 1941 as a manufacturing plant for TNT, DNT, and pentolite. Numerous buildings, process facilities, and storage tanks were constructed at AA2 and AA3 to support the production of oleum, sulfuric acid, and nitric acid used in manufacturing TNT. Acid production was discontinued in 1945. A review of aerial photographs indicates that the above ground features including buildings and storage tanks were dismantled between 1958 and 1968.

A Site Investigation (SI) was performed at the Acid Areas in 1998, which identified surface and subsurface soil contamination above U.S Environmental Protection Agency (USEPA) Region III Risk Based Criteria (RBC). Thirty soil samples were collected at 15 locations at AA2. Thirty-eight soil samples were collected at 20 locations at AA3. Organic contaminants in surface and subsurface soil exceeding the RBCs included PCBs and SVOCs.

A Remedial Investigation (RI) was performed October 2004 through April 2005 to evaluate soil contamination at site facilities not investigated during the 1998 SI, and to evaluate impacts to the groundwater, surface water, and sediment in the vicinity of AA2 and AA3. Two rounds of groundwater sampling were performed January and April 2005. Additional surface water and sediment samples were collected May and June 2006.

Soil borings were advanced at both sites to collect surface and subsurface soil samples. Soil samples were collected utilizing a Geoprobe® 5400 equipped with a Macrocore sampling device. Each boring included a surface soil sample and either one or two subsurface samples. A total of 33 soil samples were collected from 13 locations at AA2 and a total of 36 soil samples from 14 locations at AA3. Subsurface soil samples were collected from three to five feet (ft) below ground surface (bgs) at all locations and from eight to ten ft bgs at a limited number of locations.

Five temporary piezometers were installed at each of the acid areas to determine the depth, gradient, and seasonal variability of the shallow overburden groundwater. Water level measurements were collected over a six-month period from 8 November 2004 through 21 April 2005.

Three shallow overburden wells and three bedrock wells were installed at AA3 in December 2004. All newly installed wells and existing wells at AA2 and AA3 were monitored to determine the depth and gradient of the two aquifers and were sampled to evaluate impacts from the AA2 and AA3 sites.

Co-located surface water and sediment samples were collected from the drainage features at both sites. Sample locations were spaced approximately 200 to 300 apart and included locations upstream, adjacent to, and downstream of the sites. A total of 23 locations were sampled at AA2, 15 from the southern ditch and 8 from the northern ditch. A total of 13

locations were collected from AA3. Six initial sediment samples were collected 27 October 2004, three from the southern ditch at AA2 and three from AA3. Six initial surface water samples were collected 29 April 2005 co-located with the initial sediment samples. Based on data from these initial samples, twenty additional locations were samples at AA2 and ten additional locations were sampled at AA3. The additional surface water samples were collected May 2006 and the additional sediment samples were collected June 2006.

The analytical data obtained during this investigation were found to be acceptable with minor QC deficiencies for some data sets resulting in data qualification as reported in the Chemical Data Quality Report.

Based on the information obtained from these investigations, soil and sediment have been impacted at both sites. PCBs and SVOCs are found in surface soil at numerous former facilities and in the drainage ditch sediments adjacent to the sites.

Contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) at AA2 include PCBs, SVOCs, and metals. Contamination is primarily limited to surface soil. Sixteen of the 28 samples collected from the surface of AA2 contained contaminants exceeding PRGs, whereas only seven of the 35 subsurface soil samples exceeded the PRGs.

Seventy-five percent of the surface soil samples at AA2 contain PCBs. The highest concentrations of PCBs at AA2 tend to occur within the footprint of the former storage tanks. PCB concentrations are also elevated around the footprint of the former process buildings. PCB exceedances were also detected in more remote areas away from buildings, but with less frequency and at lower concentrations.

SVOC contamination in the surface soil at AA2 tends to occur at the same locations impacted by PCBs. The highest concentration of SVOCs occurs around the perimeter of former Buildings 702 and 708. Elevated SVOC concentrations also coincide with the storage tanks.

Contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) at AA3 include PCBs, SVOCs, and lead. Contamination is primarily limited to surface soil. Seventeen of the 34 samples collected from the surface of AA3 contained contaminants exceeding PRGs, whereas only two of the 40 subsurface soil samples exceeded the PRGs.

Sixty-two percent of the surface soil samples at AA3 contain PCBs. The highest concentrations of PCBs at AA3 tend to occur within the footprint of the former storage tanks and process facilities east of the rail line, between former Buildings 801 and 808. PCB concentrations are also elevated around the footprint of the former power substation. PCB exceedances were not detected in more remote areas away from buildings and tanks as at AA2, however there were only three borings at AA3 that fall in this category.

SVOC contamination in the surface soil at AA3 tends to occur at the same locations impacted by PCBs. Elevated SVOC concentrations were found in the vicinity of Building 803, Building 808, the strong acid storage facilities, and the power substation. The highest concentration of SVOCs occurs at two locations not associated with AA3 (SB-08 and SB-10). Both of these locations are south of Maintenance Road, one being associated with the former Waste Water Treatment Facility.

Contaminants in sediment exceeding the USEPA Region 9 Residential PRGs include PCBs and SVOCs. PCB concentrations are greatest near the midstream location at both sites, adjacent to the former process facilities. The mobilization of contaminants may have occurred due to the routine release of acid waste from the site or through the drainage grates present at the surface of each site during rain events.

Site contaminants were not detected in the surface water or the groundwater. Organic contaminants exceeding the PRGs in bedrock groundwater are a different set of compounds that are related to naturally occurring petroleum in the Delaware Limestone.

Further actions should be considered to address the contaminants exceeding the USEPA Region 9 PRGs at AA2 and AA3. The recommendations are as follows:

- Perform a human health and ecological risk assessment using existing site data.
- Evaluate the need for any future remedial actions based on results from the human health and ecological risk assessments.

1.0 INTRODUCTION

The U.S. Army is investigating the environmental impact at previously owned U.S. Department of Defense (DOD) properties. This work is being performed by the U.S. Army Corps of Engineers under the Defense Environmental Restoration Program (DERP). Chemical contamination related to DOD activities has been documented at the former Plum Brook Ordnance Works (PBOW) located near Sandusky, Ohio. The PBOW site is a formerly used defense site under DERP, currently being managed by the Corps of Engineers, Huntington District and technically overseen by the Corps of Engineers, Nashville District (CELRN).

PBOW operated from 1941 to 1945 as a manufacturing plant for trinitrotoluene (TNT), dinitrotoluene (DNT), and pentolite. The site is currently owned by the National Aeronautics and Space Administration (NASA) and is operated as the Plum Brook Station of the John Glenn Research Center, which is located at Lewis Field, Cleveland, Ohio.

This Remedial Investigation of Acid Areas 2 & 3 (AA2 & AA3) is being conducted by Jacobs Engineering Group (Jacobs) under contract DACW62-03-D-0004, Delivery Order #4. The work includes engineering services to conduct environmental investigations at PBOW including soil, sediment, surface water, and groundwater. This report addresses the findings of a field investigation conducted at AA2 & AA3 during the period October 2004 through April 2005. The scope of this document does not include a human health or ecological risk assessment; however, the collected data will support a human health risk assessment to be performed at a later date.

1.1 SITE BACKGROUND

1.1.1 Site Location

PBOW is located south of Sandusky, Ohio, (Figure 1-1). The AA2 site is located in the northwestern portion of PBOW, adjacent to Patrol Road (Figure 1-2). The AA3 site is located approximately 1 mile east of AA2, near the intersection of Ransom Road and Maintenance Road (Figure 1-2).

1.1.2 Site History

The 9,009-acre PBOW site was built in early 1941 as a manufacturing plant for TNT, DNT, and pentolite. Production of explosives began in December 1941 and continued until 1945. It is estimated that more than one billion pounds of explosives were manufactured during the four-year operating period.

NASA acquired PBOW in 1963 and presently utilizes about 6,400 acres for conducting space research. The AA2 and AA3 sites are currently open fields and are not being utilized, with the exception of the remaining buildings which are being used for storage.

The acid areas were used to produce oleum, sulfuric acid, and nitric acid for the manufacture of TNT. Records were not available to describe operations at the PBOW Acid Areas. However, records are available that describe similar acid production operations at the Volunteer Army

Ammunition Plant, Tennessee during the same time period. Acid production at all of the WWII-era ammunition plants are reported to have been fairly similar. The following sections summarize acid production at the Volunteer Army Ammunition Plant.

The acid areas produced various concentrations of acids for use at the batch TNT processing lines. The production area consisted of five main operations including:

- Weak nitric acid production
- Strong nitric acid production
- Reprocessing of spent sulfuric acid to produce strong sulfuric acid
- Oleum (sulfuric acid saturated with sulfur trioxide) production
- Mixed acid (strong nitric acid and oleum) production.

Weak nitric acid (60 percent nitric acid) was produced at the Ammonia Oxidation Process Building. Anhydrous ammonia used for the production of weak nitric acid was stored in tanks. Vapor compression to liquefy the ammonia was accomplished by compressors. Weak nitric acid was stored in area tank farms. The acid was then routed to the batch TNT process lines and to the Nitric Acid Concentrator facilities.

At the Nitric Acid Concentrator Buildings strong nitric acid (95 to 98 percent nitric acid) was produced. The process involved mixing weak nitric acid with strong sulfuric acid (93 percent syllabic acid) for dehydration of the nitric acid. The resultant strong nitric acid was mixed with oleum (a mixture of sulfuric and sulfur trioxide) to produce mixed acid, which was used in the batch TNT nitration process. After the nitric acid and oleum were combined, the mixed acid product was approximately one-half nitric acid and one-half sulfuric acid. This mixed acid was used in lieu of strong nitric acid in the batch process lines because less expensive carbon steel piping could be used to carry it rather than the more costly stainless steel. Until needed, the mixed acid was stored in above-ground storage tanks.

The Sulfuric Acid Concentrator recycled sulfuric acid recovered from the TNT manufacturing process and the nitric acid concentrating process to yield strong sulfuric acid. The strong sulfuric acid was produced at two concentrations, 78 and 93 percent, and were used in the production of oleum, production of strong nitric acid, or shipped out as sales acid.

Oleum was used in the production of mixed acid or routed directly to the batch TNT process lines for use in the nitration process. The Oleum Plant included a process to melt sulfur using steam, which was then passed over a series of baffles to remove dirt before it was stored in a lined pit. The molten sulfur was pumped into the Oleum Plant, where sulfur dioxide was formed by burning the sulfur. The sulfur dioxide was subsequently oxidized by a vanadium pentoxide catalyst to produce sulfur trioxide. A 40-percent oleum-sulfuric acid was produced by absorbing the sulfur trioxide in weak sulfuric acid supplied by the Sulfuric Acid Concentrator operations.

Neutralized acid waste was discharged into an acid neutralizing pit, then transferred to a holding pond, and eventually discharged into a ditch.

Similar facilities have been identified at PBOW. AA2 contained eight buildings (Bldgs. 701-704, Bldgs. 706-708, and a maintenance shop and warehouse building on the eastern edge of the site), 24 above-ground storage tanks, and a rail line (Figure 1-3). No information was obtained during the previous records reviews to indicate the type of process conducted at each building; however, identification of three storage areas was determined from the drawings: Oleum Storage, Concentrating Mix Storage, and Sulfuric Acid Sales, as shown on Figure 1-3.

The Oleum Storage facility at AA2 consisted of 8 above-ground storage tanks, located adjacent to the former rail line. The Sulfuric Acid Sales facility probably consisted of eight above ground tanks, although only four of the tanks are visible on the 1958 aerial photo. The Concentrating Mix Storage facility appears to have contained four above-ground tanks. Four additional above-ground tanks are located northeast of building 708, which stored unknown material. Based on the location of these tanks being in close proximity to the rail line, the stored material was likely transferred directly to and from tanker cars or containers on a routine basis. The maintenance shop and warehouse building east of the site is situated directly adjacent to the railroad and appears to have been used for storage and material transfer to and from the rail cars. A similar building is present at each of the other acid areas at PBOW. A large disturbed area is evident west of Building 707. Site drawings used for obtaining utility clearance for drilling operations indicate this area was used for parking space by site workers.

AA3 contained ten buildings (Bldgs. 801-804, Bldgs. 806-810, and Bldg. 813), 46 above ground tanks, and a rail line (Figure 1-4). No information was obtained during previous records reviews to indicate the type of process conducted at each building; however, identification of seven storage areas was determined from the drawings: Oleum Storage (eight tanks), Concentrating Mix Storage (four tanks), Sulfuric Acid Sales (twelve tanks), Sulfuric Acid Storage (eleven tanks - two areas), Nitric Acid Storage (four tanks), and TNT Residual Acid Storage (four tanks) as shown on Figure 1-4. Three additional tanks not identified on the engineering drawings are shown on the 1958 aerial photo, all of which are significantly larger than the other tanks. Based on the location of the Oleum Storage and Sulfuric Acid Sales tanks being in close proximity to the rail line, the stored material was likely transferred directly to and from tanker cars or containers on a routine basis.

Building 813 is located directly adjacent to the railroad and appears to have been used for storage and material transfer to and from the rail cars. A similar building is present at each of the other acid areas. A large disturbed area is evident on the 1950 aerial photo west of the Oleum Storage Area. This area is similar to the parking area at AA2; however, site drawings indicate the parking area was located near the northeast corner of the site, adjacent to building 807.

A review of the 1958 and 1968 aerial photos indicates that the above ground features including buildings and storage tanks were dismantled between these dates.

1.1.3 Previous Environmental Investigations

A records review was conducted by IT Corporation (IT) in preparation for a Site Investigation (SI) of the Acid Areas (IT, 1998). The records review indicated that no previous investigations had been conducted at AA2 or AA3.

The SI of AA2 and AA3 was conducted in 1998 by IT to determine the presence of potential contaminants and to narrow the focus of future sampling (if necessary) to specific chemicals of concern. A total of fifteen soil borings were conducted at AA2, with two samples being collected at each location: one surface and one subsurface (Table 1-1). Surface soil samples were analyzed for VOCs, SVOCs, PCBs, metals, and nitroaromatics. Subsurface soil samples were analyzed for VOCs, SVOCs, metals, and nitroaromatics. As part of the investigation, six soil samples were collected near the perimeter of PBOW to establish background values for inorganics. The SI identified surface and subsurface soil contamination above U.S Environmental Protection Agency (EPA) Region III Risk Based Concentration (RBC). Organic contaminants in surface and subsurface soil exceeding the RBCs included the following:

- Polynuclear Aromatic Hydrocarbons (PAHs): Benzo(a)pyrene, Benzo(a)anthracene, Benzo(b)flouranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene
- Semi-Volatile Organic Compound (SVOC): 3,3 Dichlorobenzidine.
- Polychlorinated biphenyl (PCB): Aroclor 1260

Subsurface soil samples were not analyzed for PCBs; therefore it was not known if PCBs were present at depth. There were no detected inorganic contaminants in surface and subsurface soil exceeding both the RBCs and the established background values.

A total of eighteen soil borings were completed at AA3, with two samples being collected at each location: one surface and one subsurface (Table 1-2). An additional two surface soil samples were collected in the vicinity of the Power Substation Area on the East side of Ransom Road. The SI identified surface and subsurface soil contamination above U.S Environmental Protection Agency (EPA) Region III RBC. Organic contaminants in surface and subsurface soil exceeding the RBCs include the following:

- Polynuclear Aromatic Hydrocarbons (PAHs): Benzo(a)pyrene, Benzo(a)anthracene, Benzo(b)flouranthene, and Indeno(1,2,3-cd)pyrene
- Polychlorinated biphenyl (PCB): Aroclor 1260

There were no detected inorganic contaminants in surface and subsurface soil exceeding both the RBCs and the established background values.

Three shallow overburden wells and two bedrock wells were installed at AA2 between 1993 and 1997. One shallow overburden well and one bedrock well were installed at AA3 in 1997. Groundwater samples were collected from the bedrock wells as part of the 2002 site-wide groundwater investigation (Shaw, 2003). Samples were collected during the dry season (September 2001 – October 2001) and wet season (April 2002).

Sampling results indicate VOCs and SVOCs were detected in the bedrock groundwater at both sites at levels above RBCs. RBCs used for this investigation were based on USEPA 2002 tap water criteria.

1.2 PROJECT OBJECTIVES

The objectives of this RI include:

- Obtain site data of a quality, quantity and distribution appropriate for site characterization, risk assessment, and feasibility study
- Determine the nature and extent of DOD related contamination in soil and groundwater at the site
- Determine the presence or absence of impacts to the drainage features at each site
- Define site physical features and characteristics
- Evaluate the fate and transport of contamination

1.3 SCOPE OF WORK

This investigation included the characterization of surface soil, subsurface soil, sediment, surface water, and shallow overburden and bedrock groundwater.

1.3.1 Soil Investigation

The soil investigation was performed with direct push technology (DPT) to advance thirteen soil borings at AA2 and fourteen borings at AA3. Boring depths ranged from 5 to 10 ft bgs. Surface and subsurface soil samples were collected for off-site chemical analysis. Further detail regarding the soil investigation is provided in Section 3.3 and 4.0 of this report.

1.3.2 Groundwater Investigation

Five temporary piezometers were installed at each site to determine the depth, gradient, and seasonal variability of groundwater in the shallow overburden aquifer. Water level measurements were collected six times during the period of 8 November 2004 through 21 April 2005.

Three shallow overburden monitoring wells and three bedrock monitoring wells were installed at AA3 in December 2004. No monitoring wells were installed at AA2 since there were three overburden wells and two bedrock wells existing at the site. Two of the existing overburden wells at AA2 are situated side-gradient to the site on both the north and south sides. The other existing overburden well is situated up-gradient to the site. One of the existing bedrock wells at

AA2 is located slightly downgradient of the site, while the other is located approximately 800 feet down-gradient of the site. No additional monitoring wells are anticipated at AA2. All newly installed wells were developed and slug tested, with the exception of monitoring well AA3-BEDGW-004, which has remained dry since installation. Two rounds of groundwater samples were collected from the newly installed wells and existing wells in January and April 2005. Further detail regarding the groundwater investigation is provided in Section 3.4 and 5.0 of this report.

1.3.3 Surface Water and Sediment Investigation

Three surface water and sediment samples were collected from the drainage ditches at each site. Samples were collected from the drainage ditch along the southern perimeter of AA2 and from the drainage ditch along the western perimeter of AA3. Sediment samples were collected 27 October 2004. Surface water samples were collected at the same locations 29 April 2005, once sufficient discharge was present at all locations. Sample locations at both sites included one upstream location, one location adjacent to the site, and one downstream location. Further detail regarding the surface water and sediment investigation is provided in Section 3.5 and 6.0 of this report.

1.3.4 Associated Field Activities

Site clearing was conducted to provide access to wooded areas within the interior of AA2. The removal of brush was performed with a rubber-tire backhoe.

All environmental sampling locations were surveyed using conventional survey methods and were converted to Ohio State Plane North NAD83.

All investigation-derived waste (IDW) was containerized in 55-gallon drums and staged at the site or at an indoor facility at PBOW. IDW characterization samples were collected and submitted for off-site analysis. Sample results indicated that all IDW was non-hazardous. Solid IDW was transported from the site on 28 January 2005 and disposed at an approved off-site facility. Liquid IDW associated with drilling operations, well development, and Round 1 groundwater sampling was transported from the site 29 April 2005. Liquid IDW associated with Round 2 groundwater sampling is currently staged on-site at an indoor facility.

1.4 REPORT ORGANIZATION

This report is organized as follows:

Section 1.0 Introduction, presents the Project Background, the Site Investigation Objectives, the Scope of Work, and the Report Organization.

Section 2.0 PBOW Facility and Acid Areas Environment, describes the PBOW, AA2, and AA3 environmental setting.

Section 3.0 Investigation Procedures, outlines the investigation procedures and activities performed.

Section 4.0 Soil Investigation, presents the findings for surface and subsurface soil.

Section 5.0 Groundwater Investigation, presents the findings for the shallow and bedrock groundwater.

Section 6.0 Surface Water and Sediment Investigation, presents the findings of the Surface Water and Sediment Investigation.

Section 7.0 Conclusions and Recommendations, summarizes the investigation findings and provides conclusions for nature and extent of contamination, fate and transport, and recommendations for future actions.

References are provided after Section 7.0. Tables, figures, and appendices are included following the text in the order in which they have been referenced.

2.0 PBOW FACILITY AND ACID AREAS ENVIRONMENT

2.1 PHYSIOGRAPHY AND TOPOGRAPHY

PBOW is located within the Eastern Lake section of the Central Lowland Province near the southwestern shore of Lake Erie. The region is characterized by lake plains, outwash plains, and till plains with occasional small hills produced during the retreat of the Wisconsinan ice sheet. Most of Erie County has a slope of 6 percent or less. The highest point in the county is 320 ft above the approximate mean level of Lake Erie (USDA, 2002). Across PBOW, the topography is relatively flat with a gentle north-northeast slope towards Lake Erie.

Throughout the region including what is now Erie County, multiple glacial advances followed by melting and recessions deposited glacial till and lacustrine sand, silt and clay. Thin mantles of soil formed in high bedrock areas where the advance of ice and associated glacial deposition was obstructed, with thicker layers of glacial till forming in lower lying areas away from the bedrock highs (USDA, 2002). Portions or all of Erie County were repeatedly covered by glacial lakes depending on the extent of the periodic advances of glacial ice and the resultant ice melt. During the last glacial recession, the Erie Basin was filled by a series of lakes that formed in front of the ice sheet. Lacustrine sediments deposited in these lakes form many of the present day soils in Erie County (USDA, 2002). Fluctuating lake levels and associated wave action subsequently modified glacial deposits and produced features such as beach ridges and wave cut cliffs.

The AA2 site physical features include an open field with two drainage ditches running west to east; one on the northern perimeter of the site, and one on the southern perimeter of the site. A storm sewer system was constructed at the site, as evidenced by existing drainage grates, manhole covers, and open holes with brick lining. The remains of an old railroad grade with a few railroad ties and loose track are still evident at the site. Former building foundations can be observed on the north side of the site. A paved service road completes a loop around the perimeter of the site. AA2 covers approximately 25 acres. The ground surface is relatively flat, with minimal slope toward the east and southeast. Elevations at the site range from 639.6 ft amsl near the southeastern portion of the site to 643.8 ft amsl in the western portion. The majority of the site is currently an open field, with tall grass and frequent low shrubs. Small wooded areas have developed throughout the site and tend to be thickest in the western portion. The areas outside of the site boundary are heavily wooded.

The AA3 site physical features include an open field with a drainage ditch running north to south on the western perimeter of the site. A storm sewer system was constructed at the site, as evidenced by existing drainage grates, manhole covers, and open holes with brick lining. A large diameter concrete culvert discharges into the ditch on the east side of the bank, near the center of the site. Running water was heard through the drainage grates during the first round of groundwater sampling in January 2005. Several rail lines are still present oriented in a north–south direction. A paved service road borders the northern and western perimeter of the site, while Ransom Road and Maintenance Road serve as boundaries for the eastern and southern perimeter, respectively. AA3 covers approximately 40 acres. The ground surface is relatively flat, with elevations ranging from 632.6 to 637.0 ft amsl. The majority of the site is currently an open field, with tall grass and frequent low shrubs. Some small wooded areas have developed

along the former railroad tracks. Much of the area outside of the site boundary is also open terrain with tall grass or small shrubs and occasional wooded areas.

2.2 GEOLOGY

2.2.1 PBOW Geology

The dominant soil materials at PBOW are derived from glacial till, outwash (gravel and sand), and lacustrine (very fine sand, silt and clay) deposits. Other soil types have been formed from more recent deposits of alluvium or the weathering of parent rock. Within PBOW, the soil origins are primarily lacustrine, with approximately 50 different soil units identified at the site (USDA, 2007). The glacial deposits are less than 20 feet thick on average and bedrock is exposed in many places.

The bedrock formations of northwestern Ohio are of sedimentary origin and consist of Devonian and Silurian carbonates (limestones and dolomites) and clastics (sandstones and shales). The regional dip is to the southeast at approximately 35 ft per mile, with younger rocks subcropping to the east. The Silurian and Devonian formations unconformably overlie sedimentary sequences of Ordovician and Cambrian Age, which in turn unconformably overlie the Pre-Cambrian crystalline Greenville Basement.

At PBOW, four Devonian formations subcrop beneath the glacial drift cover (Shaw, 2003). From oldest to youngest, these formations are Delaware Limestone, Plum Brook Shale, Prout Limestone, and the Huron Shale member of the Ohio Shale. A geologic map, Figure 2-1, in the 2002 Groundwater Data Summary and Evaluation Report (Shaw, 2003), shows the spatial distribution of these subcrops across PBOW.

The Delaware Limestone conformably overlies the Columbus Limestone, and is approximately 75 ft thick. The contact between the two formations occurs to the northwest of PBOW. The Delaware Limestone subcrops beneath the glacial drift in the extreme northwestern corner of PBOW. It is described as a massive to thick-bedded, brown to gray, fossiliferous limestone and dolomite. Karst topography occurs in some of the Silurian and Devonian carbonates in the northern and western sections of Erie County, (SAIC, 1991).

The Plum Brook Shale unconformably overlies the Delaware Limestone and subcrops beneath the glacial drift over most of the northwest portion of the site. It is approximately 35 ft thick, and is described as a blue, soft, fossiliferous shale containing thin layers of dark, hard fossiliferous limestone.

The Prout Limestone is a 15-foot thick limestone, which conformably overlies the Plum Brook Shale. The Prout Limestone subcrops beneath the glacial drift as a thin (1000 to 2000 foot wide) northeast striking band across the middle of PBOW. It is described as a dark gray to bluish gray to blue, very hard, silicious, fossiliferous limestone or dolomitic mudstone.

The Huron Shale is the lower member of the Ohio Shale and subcrops beneath the glacial drift over much of the southern and eastern portions of PBOW. It is described as a grayish black, dense, platy to fissile shale containing large pyrite/carbonate concentrations (one to six ft in

diameter). It is up to 300 ft thick. The glacial drift cover over the Huron Shale is generally thinner than over other formations, in many places the shale is within several ft of the surface.

2.2.2 AA2 Geology

Overburden thickness at AA2 ranges from 18 to 21.5 ft. The overburden consists of clay and silty clay, with frequent discontinuous zones of silt and occasional sandy silt or silty fine grained sand zones. The discontinuous silts and sands are limited to the upper 10 feet of the overburden. The lower 10 to 12 ft of overburden consists of clay and silty clay, with occasional silt layers (Figure 2-1). Silt content tends to be greater in the southern half of the site. The northern half of the site contains a greater amount of highly plastic clays in the bottom half of the overburden. The soil at AA2 is mapped as Udorthents, loamy, 0 to 6 percent slopes (Udb), which represents areas that have been altered during construction. The site is bounded primarily by soils mapped as Colwood loam, 0 to 1% slopes (CmA) and Kibbie fine sandy loam, 0 to 2 % slopes (KbA) (USDA, 2007). Colwood loam and Kibbie fine sandy loam are associated with extensive flat areas, with Colwood loam in drainage ways and depressions and Kibbie fine sandy loam in flat areas with slight rises. These units both have "apparent" water tables and are somewhat poorly drained (KbA) to poorly/very poorly drained (CmA) (USDA, 2002).

The Delaware Limestone subcrops beneath these unconsolidated deposits over the entire site. Thickness of the Delaware Limestone underlying AA2 is unknown since the deepest well penetrating the Delaware at AA2 was terminated at 52 ft bgs. A small amount of Plum Brook shale may be present on top of the Delaware Limestone in the extreme eastern end of the site. Based on Figure 2-1 of the 2002 Groundwater Data Summary (Shaw, 2003), the contact between The Delaware Limestone and the Plum Brook Shale crosses the eastern end of the site. Drilling logs for bedrock well PB-BED-MW14 indicate approximately 3 feet of Plum Brook Shale. This well is located approximately 500 feet southeast of the site.

2.2.3 AA3 Geology

Overburden thickness at AA3 ranges from 21.0 to 25.9 ft. The overburden consists of clay and silty clay, with frequent discontinuous zones of silt in the upper 10 feet of the overburden. The lower 5 to 7 ft of overburden consists of a fairly continuous layer of highly plastic clay, which is present at most locations. There are deposits of sandy silt and silty sand on the east side of the site at depths ranging from 8 to 18 feet, with a maximum thickness of five feet (Figure 2-1). The soil at AA3 is approximately 70 percent Kibbie fine sandy loam, 0 to 2 % slopes (KbA) and 30 percent Colwood loam, 0 to 1% slopes (CmA) (USDA, 2007).

The Plum Brook Shale subcrops beneath these unconsolidated deposits over the entire site. The thickness of this shale ranges from 4.5 to 14 ft, with thickness decreasing to the northwest. The Delaware Limestone underlies the Plum Brook Shale. Thickness of the limestone at the AA3 site is unknown, since borings extended no further than 45 ft below the top of the formation.

2.3 GROUNDWATER

2.3.1 PBOW Description

Groundwater at PBOW includes the shallow overburden and the bedrock aquifers. Numerous wells have been installed across the site to characterize these two water-bearing units (Shaw, 2003). The shallow overburden generally has low yields over most of the site due to the high percentage of silt and clay. Water levels in the shallow overburden range from less than 1 ft bgs to 6 ft bgs during wet season and fluctuate up to four ft on a seasonal basis. Water levels generally mirror the local topography. Shallow groundwater flow is typically toward the local surface drainage features with a general northerly trend.

Bedrock groundwater has been subdivided into two separate units at PBOW: 1) the Plum Brook Shale and Ohio Shale, and 2) the Delaware Limestone. Water levels in the Plum Brook Shale and Ohio Shale closely match those of the shallow overburden suggesting good vertical communication between the two units. Water levels in the Delaware Limestone are on average 30 ft bgs. Groundwater flow in the Delaware Limestone is generally to the north, however there are major fracture zones transecting the site, which influence groundwater flow in several areas (Shaw, 2003).

Two aquifers are utilized for drinking water in the area surrounding PBOW: a carbonate aquifer outcropping in the western portion of Erie County and a shale aquifer outcropping in the eastern portion. PBOW is located within the transition of the two aquifers. Both aquifers are overlain by a veneer of glacial drift, generally less than 20 ft, that is considered a poor source of groundwater except in areas of sand and gravel lenses.

The carbonate aquifer is subdivided into two zones by the Ohio Department of Natural Resources based on usage and yields. Zone one is characterized as cavernous limestone and dolomite. Yields from zone one range from 100 to 500 gallons per minute (gpm) in the karst terrain of western Erie County and decrease to the east, as evidenced by a well just west of PBOW that has a yield of eight gpm. Zone one is present in the north and northwestern portions of PBOW at depths of approximately 100 ft. Zone two is a deeper carbonate aquifer that generally yields 15 gpm or less. Zone two is present in the north portion of PBOW at depths of 300 ft.

The shale aquifer and overlying discontinuous sand and gravel deposits are designated as zone three. Zone three is present over all of the eastern and southern portions of PBOW and seldom yields more than three gpm.

Residences to the north and east of PBOW are served by city, county, and rural water departments. Residences south and west of PBOW are supplied by wells. As of 1991, a total of 179 permitted private drinking water wells, listed at the Erie County Health Department, were within a four-mile radius of PBOW (SAIC, 1991). The nearest recorded well is at 6115 Schenk Road, approximately 1950 ft north of AA2 and 3600 ft west of AA3; however, a closer well was observed at 1810 Schenk Road, located approximately 1400 ft northeast of AA2 and 2700 ft west of AA3.

2.3.2 AA2 Groundwater

Groundwater at AA2 includes both shallow overburden and the Delaware Limestone aquifers. Groundwater elevations in the shallow overburden range from 636.4 to 641.3 ft amsl. Depths to the shallow groundwater during the spring 2005 ranged from 2.1 to 5.9 ft bgs. Shallow groundwater generally flows to the east toward Pipe Creek. The drainage ditches to the north and south of the site also serve to control the flow of shallow groundwater.

Groundwater elevation contours for the deeper Delaware Limestone aquifer indicate a linear groundwater high running north-south through the center of AA2 (Figure 6-5 of the 2004 Groundwater Data Summary (Shaw, 2004a). Based on these contours bedrock groundwater should flow east, west, and north away from the center of the site. Groundwater elevations ranged from 618.1 to 632.4 ft amsl in August 2004. Groundwater elevations from the two bedrock wells monitored in April 2005 as a part of this investigation ranged from 618.5 to 632.8 ft amsl.

2.3.3 AA3 Groundwater

Groundwater at AA3 includes both shallow overburden and the Delaware Limestone aquifers. Groundwater elevations in the shallow overburden range from 629.9 to 633.4 ft amsl. Depths to the shallow groundwater during the spring 2005 range from 1.0 to 6.0 ft bgs. Shallow groundwater generally flows toward the center of the site, where underground drainage tiles divert shallow groundwater directly to the drainage ditch west of the site.

Groundwater elevation contours for the deeper Delaware Limestone aquifer indicate a groundwater high near the center of the site and extending toward the west. Bedrock groundwater should flow radially away from the center of the site to the north, east, and south. Groundwater elevations from the three bedrock wells monitored in April 2005 as a part of this investigation ranged from 609.7 to 628.9 ft amsl.

2.4 SURFACE WATER

2.4.1 PBOW Description

PBOW lies in the eastern region of the Pickeral Creek – Pipe Creek Basin, which in turn, lies within the St. Lawrence River drainage basin. The Huron River Basin lies approximately 3.5 miles east of PBOW. Sandusky Bay and Lake Erie are approximately 4.5 miles north of the site.

Eleven streams pass through or originate within PBOW and are a part of four drainage areas: 1) Sawmill Creek (southern PBOW); 2) Plum Brook (central PBOW); 3) Pipe Creek (western PBOW); and 4) Storrs-Hemminger Ditch. All streams flow north or northeasterly into Sandusky Bay.

Numerous ponds lie within and around PBOW. Seventeen isolated ponds and reservoirs, and three red water ponds are located on PBOW. It is not known if the ponds are fed from shallow groundwater. Pond water levels remain high, even during the winter months.

Surface water intakes within 15 miles of PBOW include Lake Erie, Huron River, and reservoirs fed by the west branch of the Huron River and it's tributaries.

The Erie County Health Department does not permit the use of surface water for private drinking water supply and no surface water within PBOW is used as a drinking water supply. It is unknown whether surface waters are used for livestock in the local area. Crop irrigation is not common in Ohio. Lake Erie and Sandusky Bay are a resource for recreational sports including fishing, swimming, and boating.

2.4.2 AA2 Surface Water

Two drainage ditches border the AA2 site: one on the northern perimeter of the site and one on the southern perimeter. Both drainage ditches flow toward the east and discharge into Pipe Creek. The southern drainage ditch channel is approximately six to eight ft wide and four to six feet deep, with width and depth increasing downstream. Surface water elevations in the southern drainage ditch range from 640.7 ft amsl upstream of the site to 633.5 ft amsl downstream of the site. The northern drainage ditch channel is approximately three ft wide and two to three feet deep. Elevations in the northern drainage ditch are unknown since a land survey was not performed at this location. Both drainage systems are ephemeral and flow only during the wet season and following precipitation events, remaining dry from mid-summer through the fall. Flowing water was observed during a site reconnaissance in June 2004 and again during surface water sampling in April 2005. Both ditches were dry during the sediment sampling event in October 2004.

2.4.3 AA3 Surface Water

The only surface water feature within AA3 is a drainage ditch on the western perimeter of the site, which flows from north to south. The drainage ditch makes a 90-degree bend at the southwest corner of the site, then flows westward toward Pipe Creek. The channel is approximately six to eight ft wide and four to five feet deep at the upstream end north of the site, increasing to 15 ft wide and eight ft deep at the downstream location. Surface water elevations in the drainage ditch range from 630.0 ft amsl upstream of the site to 628.0 ft amsl downstream of the site. The upstream portion of the drainage ditch is ephemeral and flows only during the wet season and following precipitation events, remaining dry from mid-summer through the fall. This portion of the ditch was dry during the sediment sampling event in October 2004, but was flowing during the surface water sampling event in April 2005. The lower half of the drainage ditch maintains six to twelve inches of water on a continuous basis. A 24" culvert discharges into the drainage ditch on the east side of the channel near the center of the site. An underground drainage system is present within the interior of the AA3 site, which likely discharges shallow groundwater through the 24" culvert. A series of drainage grates are present on the east side of the easternmost rail line. During field investigations, running water could be heard through the drainage grates.

2.5 CLIMATE

The climate for the Sandusky area is continental, but strongly influenced by Lake Erie. Predominantly westerly winds parallel the shoreline of Lake Erie. In a 1956 study by the National Advisory Committee for Aeronautics, the wind direction at PBOW was from the

southwest approximately 55 percent of the time throughout the year (SAIC, 1991). The frequency of northerly and northeasterly winds increases during the spring and summer.

The average annual precipitation for the city of Sandusky from 1971 to 2001 is 34.46 inches (Midwestern Climate Center, 2004). The mean monthly precipitation at the U.S. Weather Bureau Station for Sandusky for the 30-year period ranged from a low of 1.72 inches for February to a high of 4.19 inches for June. The monthly average precipitation for all months for 1971 through 2001 is provided in Table 2-1. This table also lists the extreme high and low monthly precipitation totals and the year the extreme occurred.

Average daily temperatures for Sandusky for the 30-year period 1971 to 2001 ranged from 25.6° F in January to 73.8° F in July. Summers are moderately warm and humid, with temperatures occasionally exceeding 90° F. The monthly average maximum, minimum, and mean temperatures for all months for the period 1971 to 2001 are provided in Table 2-2. This table also lists the extreme high and low monthly mean temperatures and the year the extreme occurred. Winters are cold and cloudy, with sub-zero temperatures occurring an average of five days per winter. The first freeze is typically in October with the last freeze normally occurring in April.

2.6 LAND USE

2.6.1 PBOW Land Use

Prior to acquisition of the site for construction of the PBOW, the area was largely agricultural. During construction of the PBOW, most of the forested areas were cleared. Today, second generation forests have returned to large portions of the site that are not actively used by NASA. Other undeveloped areas of the site are maintained as open fields. The surrounding area is mostly agricultural and residential.

Potential future uses of portions or all of the facility property include:

1. The continuation of NASA activities at PBOW.
2. Recreational uses such as hunting and fishing. PBOW is open to deer hunters during the hunting season.
3. Selling of portions of the site by GSA to other parties (state or local government or private individual).
4. Agricultural uses.
5. Residential uses.
6. Training area for use by National Guard Units.
7. Construction activities.

Items 3 through 7 are speculative and no negotiations have been scheduled to define future land use.

2.6.2 Acid Areas Land Use

The Acid Areas were used as early as 1941. Acid production likely ceased in 1945 when TNT production was discontinued. Previous investigation reports and records searches do not indicate dates for construction, operation, and dismantlement of the Acid Areas. Removal of buildings and above ground tanks occurred between 1958 and 1968 based on aerial photography. The only remaining building at AA2 is the easternmost building adjacent to the former rail line, which currently is used for storage of deer traps. The only remaining building at AA3 is the northernmost building adjacent to the rail line, which is locked and used by NASA for storage of unknown materials. No specific future uses of this site have been identified.

3.0 INVESTIGATION PROCEDURES

This investigation included the characterization of surface soil, subsurface soil, sediment, surface water, and shallow overburden and bedrock groundwater.

The field sampling events for the soil and sediment investigation occurred between 25 October and 10 November 2004. Five shallow piezometers were also installed at each site at this time. Installation of the monitoring wells and associated well development occurred between 2 December and 21 December 2004. Soil IDW characterization sampling was performed 14 December 2004. Round 1 groundwater sampling and slug testing occurred between 20 January and 1 February 2005. Liquid IDW characterization sampling was performed 1 February 2005. Round 2 groundwater sampling and surface water sampling occurred between 20 April and 30 April 2005. Piezometer abandonment was performed 21 April 2005. Liquid IDW characterization sampling for Round 2 groundwater sampling activities was performed 30 April 2005. CELRN representatives were present to observe all field investigation sampling activities.

All field investigations were performed in accordance with the Final Site-Wide Sampling and Analysis Plan (SWSAP) (Jacobs, 2004a) and the Final Site-Specific Field Sampling Plan (Jacobs, 2004b), with the exception of bedrock well installation and sampling methods for monitoring well IT-MW10. Additional deviations included the re-location of two soil borings at AA2 and the relocation of three surface water and sediment samples from AA2 to AA3. These deviations are discussed in detail in Sections 3.3, 3.4.2, 3.4.5, and 3.5.

3.1 COORDINATION OF SITE ACCESS AND UTILITY CLEARANCE

Site access and utility clearance for fieldwork activities were coordinated with appropriate NASA personnel. NASA personnel checked and cleared all sampling locations to identify potential buried utilities. No relocation of proposed sampling locations was required for AA2. The proposed piezometer east of Ransom Road at AA3 was moved 20 feet east to avoid a natural gas line. A Digging and Excavation Permit was obtained prior to initiating subsurface investigations. A copy of the permit is provided in Appendix A.

Jacobs utilized personnel of the Plum Brook Operations Support Group (PBOSG) to clear brush and vegetation from overgrown areas at both sites, to provide access for field sampling personnel and equipment. Minor clearing of some young hardwoods and underbrush was needed at AA2 to access boreholes SB-16, SB-17, SB-18, SB-20, SB-26, and SB-27, and piezometer PZ-03. Minor clearing of low lying brush was also performed at AA3 for piezometer PZ-03 and monitoring wells AA3-GW-003, AA3-BEDGW- 002, and AA3-BEDGW-004. All cleared growth was left on site to provide natural wildlife habitat and cover.

NASA provided storage and staging facilities for equipment and supplies and a storage facility for liquid IDW.

Jacobs and NASA coordinated the schedule for field activities to avoid conflicts among site uses and to identify access limitations to specific areas during certain portions of the fieldwork.

3.2 HEALTH AND SAFETY PROGRAM

All work was performed in accordance with the Final Site-Wide Safety and Health Plan (Jacobs, 2004c) and the Final Site-Specific Safety and Health Plan Addendum for Acid Areas 2 & 3 (Jacobs 2004d). An initial site safety briefing/kick-off meeting was held prior to the initiation of fieldwork including all Jacobs field personnel, field personnel from the PBOSG, the subcontracted drilling companies, and the on-site CELRN representatives. The briefing addressed pertinent sections of the site Health and Safety Plan, including the potential contaminants of concern and their recognition, field procedures, emergency procedures, and the type of monitoring and personal protective equipment (PPE) to be used during the fieldwork. The participants also discussed how to recognize potential contamination and the actions to be followed in the event that contamination was suspected or encountered. An additional site safety briefing for all field team members was held each morning to address specific health and safety concerns and to review health and safety protocol.

Site Safety and Health oversight was provided by a Jacobs Health and Safety Officer during the first few days of the soil investigation phase and the well installation phase. The Jacobs site manager assumed health and safety oversight responsibilities during all other field activities.

Modified Level D PPE was used for most activities, which included hard hats, safety glasses, steel-toed boots, nitrile gloves, and tyvek coveralls. A photoionization detector (PID) was calibrated and zeroed to background each day and used during the soil sampling activities. PID readings above background were not observed during any of the subsurface investigations. A hydrogen sulfide meter was used during the drilling of bedrock wells and subsequent well development. None of the bedrock monitoring wells exhibited hydrogen sulfide readings above the preset instrument alarm limits of 10 ppm; however hydrogen sulfide was detected at all three of the newly installed bedrock wells.

The buddy system, whereby two personnel worked together at all times, was adhered to during all phases of the fieldwork, with the exception of groundwater sampling. On occasion two wells that were not immediately adjacent to one another were purged and sampled simultaneously. The buddy system was used during equipment set-up and break-down, but not during purging and sampling. Two of these wells MK-MW09 and PB-BEDMW-24 were within line of sight. No significant health and safety issues arose during the field activities.

3.3 SOIL SAMPLING PROCEDURES

Surface soil and subsurface soil sampling was performed utilizing a Geoprobe® 5400 DPT rig equipped with a Macrocore sampling device. Soil samples were collected from 13 locations in AA2 and 14 locations in AA3 (Figures 3-1 and 3-2). Surface soil samples were collected from 0.5 to 1.5 ft bgs at all locations. Subsurface samples were collected from three to five ft bgs at all locations and from eight to ten ft bgs at specific locations (Table 3-1). All samples were analyzed for VOCs, SVOCs, nitroaromatics, TAL metals, and PCBs.

All soil sampling was conducted in accordance with the SWSAP (Jacobs, 2004a) and the Final Site-Specific Field Sampling Plan (Jacobs, 2004b), with the exception of borings SB-27 and SB-28 at AA2. These borings were moved from their proposed location based on information obtained during the utility clearance process. These borings were originally intended to

characterize a large disturbed area in the northwest corner of AA2. The nature of this disturbance was unknown; however, while reviewing several engineering drawings in support of the utility clearance, it was determined that this area served as a parking facility for site workers. CELRN and Ohio Environmental Protection Agency (OEPA) personnel provided direction for alternate locations for these borings. SB-27 was relocated to provide additional characterization of the above ground storage tanks east of Building 708. SB-28 was relocated to characterize the above ground storage tanks west of Building 702.

Dedicated disposable spoons and bowls were used for each sample. Sampling equipment was cleaned prior to use; first with an alqinox wash, then a potable rinse, and a final ASTM Type 2 DI rinse. Equipment was then individually wrapped in aluminum foil to ensure no contaminants were introduced.

The Macrocore sampler was equipped with acetate liners. VOC samples were collected directly from the sleeves using a certified pre-preserved VOC sample kit. Samples for non-VOC analysis were extruded from the sleeve and homogenized in a dedicated disposable glass bowl using a stainless steel spoon.

Drilling rods and other downhole equipment were steam cleaned between borings. New acetate liners were used for each sample.

A geologist completed a field log for each of the soil borings. Copies of the DPT boring logs are included in Appendices B and C.

All soil sampling locations were surveyed using conventional methods. The northing, easting, and ground elevation are listed in Appendix D and correspond to Ohio State Plane North NAD83 and elevation datum NGVD 29.

3.4 GROUNDWATER INVESTIGATION PROCEDURES

The groundwater investigation included the installation and monitoring of temporary piezometers at both AA2 and AA3, the installation, testing, and sampling of monitoring wells at AA3, and sampling of existing wells at AA2. (Figures 3-1 and 3-2).

The piezometers were installed during the soil investigation activities 02 November through 04 November 2004 to determine the depth, gradient, and seasonal variability of the shallow overburden groundwater. The monitoring wells at AA3 were installed 03 December through 21 December 2004. Monitoring wells were installed to provide groundwater characterization within AA3 as well as upgradient and downgradient of the site. All groundwater sampling points were installed in accordance with the SWSAP. A geologist completed a field log for each of the soil borings associated with the installation of a well or piezometer (Appendices E & F). A detailed description of each installation follows.

3.4.1 Piezometer Installation and Water Level Measurements

Five temporary piezometers were installed at each site to determine shallow groundwater gradients and to determine the location of permanent shallow monitoring wells (Figure 3-1 and 3-2). Borings for piezometers were advanced using a Geoprobe® 5400 equipped with the

macrocore sampling device. All borings were advanced to top of bedrock with continuous coring and logging of lithologic descriptions. Total depths of the piezometer borings ranged from 18 to 21.5 ft bgs at AA2, and 21 to 25.2 ft bgs at AA3. Borehole logs for the piezometers are provided in Appendices E & F.

Piezometers were completed with 1-inch inner diameter (ID) schedule 40 polyvinylchloride (PVC) screen and riser. Screened intervals were from the bedrock to 10 ft above bedrock. The annulus was filled with 30/60 sand pack to one ft below ground surface (bgs) and granular bentonite was used for the surface seal.

Water level measurements were collected over a six-month period from 8 November 2004 through 21 April 2005, using a Solinst water level meter, which was decontaminated between each well reading. The piezometers were removed on 21 April 2005, and the boreholes were tremmie grouted from the bottom up to ground surface using a bentonite slurry. Well sealing reports are provided in Appendix G.

3.4.2 Monitoring Well Installation

Three shallow overburden wells (AA3-GW003, AA3-GW004, and AA3-GW005) and three bedrock monitoring wells (AA3-BEDGW-002, AA3-BEDGW-003, and AA3-BEDGW-004) were installed at AA3 (Figure 3-2). Newly installed monitoring wells were placed to characterize up-gradient, on-site, and down-gradient groundwater. Well placement was in accordance with the proposed locations presented in the Final Site-Specific SAP (Jacobs 2004b), with the exception of AA3-GW005, which was moved based on water level data collected from the temporary piezometers. Approval of the new location was received from OEPA after review of a preliminary shallow groundwater contour map and a brief technical memo provided at the 02 December 2004 team meeting.

The boreholes for the shallow overburden wells were completed with 4 ¼-inch ID, hollow-stem augers, using two-inch diameter split spoons for continuous coring and logging of lithologic descriptions. Shallow boreholes were terminated at depths ranging from 19 to 24 ft bgs, and in all cases were terminated in clay deposits exhibiting medium to high plasticity and low permeability. Borehole logs for the permanent monitoring wells are provided in Appendix F. In all cases the most permeable zones were located in the upper 10 ft of overburden; therefore, screens were placed as high as possible, while maintaining minimum filter pack and bentonite seal requirements. Boreholes for monitoring wells AA3-GW003 and AA3-GW004 were backfilled with granular bentonite to 19 ft bgs. Shallow wells were completed with 2-inch ID schedule 40 PVC screens and risers. All shallow wells were completed with top of screen at 8 ft bgs, with a sand pack extending from 19 ft bgs to 3 ft above top of screen (5 ft bgs). A bentonite seal using granular bentonite was placed from top of sand pack to 1 ft bgs and hydrated. Because of the shallow completion, no additional annular cement was used above the bentonite seal. Additional completion details are provided in Appendix H.

The boreholes for the bedrock wells were completed using 8 ¼-inch ID, hollow-stem augers to a minimum of three ft below the top of bedrock. Six-inch steel surface casing was installed to a minimum of 3 ft into bedrock and grouted in place. Rock coring using air rotary methods was then conducted from the bottom of the surface casing. In all cases water producing zones were encountered in the Plum Brook Shale, which precluded the use of air rotary methods. Conventional mud rotary drilling with 94 mm wire-line coring was then conducted to a minimum

of two ft below the top of the Delaware Limestone. The borehole was then reamed with a 5 7/8-inch roller bit. Four-inch steel casing was then installed and grouted in place to seal off the water producing zones in the Plum Brook Shale. Air rotary coring was then resumed with a 3 7/8-inch coring bit to total depth. Total depths of the borings ranged from 51 to 75.5 ft bgs

Monitoring wells AA3-BEDGW-002 and AA3-BEDGW-003 were completed with 2-inch ID schedule 40 PVC screens and risers. Monitoring well AA3-BEDGW-004 was not completed due to the lack of water producing horizons. This well was drilled to 75.5 feet, roughly 45 ft below the top of the Delaware Limestone. The well was left as on open hole completion pending further evaluation and discussion with OEPA. The well has been fitted with a six-inch expansion cap attached directly to the surface casing and is being monitored for water levels. Additional completion details are provided in Appendix H.

Photologs of the continuous rock cores are provided in the Round 1 Quarterly Groundwater Report, Acid Areas (Jacobs, 2005). The rock cores are stored in wooden core boxes at an indoor staging facility and are available for further inspection.

3.4.3 Monitoring Well Development

Development of each well was performed with a bladder pump in accordance with procedures outlined in the Final Site-Wide SAP (Jacobs 2004a). Water quality parameters were monitored with a Horiba U22XD equipped with a flow-thru cell. Required purge volumes and water parameter stabilization was achieved for all wells. Turbidity readings of less than 20 nephelometric turbidity units (NTU) were achieved for all wells. Turbidity readings approaching zero were achieved for all wells but AA3-GW003. Well yields were calculated for each well based on maximum pump rates while maintaining water level stabilization. Well development records and calculated well yields are presented in Appendix I. Measured depths provided on the development forms are from top of casing.

3.4.4 Slug Testing

Slug tests were performed on all newly installed monitoring wells with the exception of AA3-BEDGW-004, which did not have sufficient water. A stainless steel slug measuring 36 inches long and 1.5 inches in diameter was used for all tests. Pressure transducers with built in data loggers were used to monitor water levels during the tests. Rising head and falling head tests were performed at each well. Water levels were allowed to equilibrate following equipment installation, before initiating the falling head test. Likewise, water levels were allowed to equilibrate following the falling head test prior to initiating the rising head test. Slug test results are provided in the Round 1 Quarterly Groundwater Monitoring Report (Jacobs 2005)

3.4.5 Monitoring Well Sampling

Groundwater samples were collected from twelve monitoring wells at or near AA2 and AA3. Five existing wells in AA2 were sampled, which included AA2-GW002, IT-MW10, MK-MW09, AA2-BEDGW-001, and PB-BED-MW19 (Figure 3-1). Seven wells were sampled in AA3, which included the five newly installed wells (AA3-GW003, AA3-GW004, AA3-GW005, AA3-BEDGW-002, and AA3-BEDGW-003) and existing wells (AA3-GW002 and AA3-BEDGW-001) (Figure 3-2). Round 1 groundwater sampling was performed 21 January 2005 through 1 February 2005.

Round 2 groundwater sampling was performed 20 April through 30 April 2005. Prior to initiating sampling activities, water levels were measured in all monitoring wells and piezometers.

Groundwater samples from each monitoring well were analyzed for VOCs, SVOCs, PCBs, nitroaromatics, target analyte list (TAL) metals (unfiltered), TAL metals (filtered – Round 1 only), cyanide, total organic carbon, turbidity, alkalinity, total suspended solids, total dissolved solids, nitrate, chloride, sulfate, and hardness. The filtering of metals was performed in the field, using disposable 0.45-micron in-line filters. In addition iron (Fe^{++}) and manganese (Mn^{++}) were analyzed in the field using Hach test kits. Water quality parameters were also monitored during purging and after sampling using a Horiba U22XD equipped with a flow-thru cell. Water quality parameters included temperature, pH, dissolved oxygen, oxidation reduction potential, specific conductance, and turbidity.

Purging and sampling of the wells was performed with a bladder pump using low-flow methods, whereby pumping rates were set at a level that maintained static water levels or slightly increasing water levels during sampling. The pump was lowered into the well slowly to minimize suspension of sediments while setting the pump intake slightly above the center of the screen. Purge volume and water parameter stabilization requirements, as specified in the Final Site-Wide SAP (Jacobs 2004a), were achieved for all wells sampled by low-flow methods. Purge volume requirements were not achieved for low-yield wells that were purged dry.

Several of the wells (AA2-BEDGW-001, AA3-GW004, and AA3-GW005) exhibited well yields too low to perform purging and sampling at low-flow rates within a 10-hour period. These wells were pumped dry and allowed to recover overnight. Additional purging was then conducted at low-flow rates before sampling, until water quality parameters stabilized.

Bedrock wells AA3-BEDGW-001 and PB-BED-MW19 exhibited well yields too low to meet purging requirements and sampling within a 10-hour period, while trying to maintain the initial static water level. These wells exhibited increased yields as the water level was lowered. The increase in the yield prohibited a complete purging of the well; therefore the pumping rate was reduced after approaching the purge volume requirements, allowing water levels to recover and water parameters to stabilize. Sampling was then performed at these reduced flow rates while the water levels continued to rise, thus meeting the objectives of low-flow sampling.

Low flow sampling was not performed on monitoring well IT-MW10 during Round 1 sampling due to blockage in the casing near ground level. This condition was noted in the Second Quarterly Background Report (IT 2002), which precluded sampling from this well during the September – October 2001 and January 2002 sampling events. A disposable 1/2" ID bailer was used to purge the well dry and to collect samples upon recovery. Filtered metals analysis was collected in an unpreserved bottle and submitted for filtering at the lab. Water quality parameters were measured before and after sampling using a grab sample, as opposed to continuous undisturbed readings from a flow-thru cell.

A peristaltic pump was used at IT-MW10 during Round 2 sampling to attempt low flow sampling methods. The well yield was determined to be less than 110 milliliters per minute, which was the lowest pump setting. At this flow rate the water level dropped 0.3 ft per minute. The peristaltic pump was used to purge the well dry and to sample the well upon recovery. A disposable ½" ID bailer was used to collect the VOC sample.

Sampling was performed on all monitoring wells after meeting the purge volume and water parameter stabilization requirements. Turbidity readings for many of the bedrock wells were often inaccurate due the accumulation of H^2S bubbles on the inside of the flow-thru cell. In most cases the water appeared very clear. Due to the extremely cold outside temperatures, the sampling equipment was placed inside of a vehicle, to avoid freezing of the purge lines. Temperature readings were not considered for water parameter stabilization, due to considerable temperature swings inside the vehicle. Constant temperature swings were inevitable due to opening of doors or hatches to adjust pump settings, to collect water level measurements, or to change purge buckets. Purge and sampling records for Round 1 are provided in the Round 1 Quarterly Groundwater Monitoring Report, Acid Areas (Jacobs 2005). Purge and sampling records for Round 2 are provided in the Round 2 Quarterly Groundwater Monitoring Report (Jacobs 2006).

3.4.6 Survey of Well Locations

All monitoring wells were surveyed using conventional methods, which included measuring the elevation at top of casing. The northing, easting, and elevation of top of casing for each monitoring well are listed in Appendix D and correspond to Ohio State Plane North NAD83 and elevation datum NGVD 29.

3.5 SURFACE WATER AND SEDIMENT INVESTIGATION PROCEDURES

Two drainage ditches border the AA2 site: one on the northern perimeter of the site and one on the southern perimeter. Both drainage ditches flow toward the east and discharge into Pipe Creek. The only surface water feature within AA3 is a drainage ditch on the western perimeter of the site, which flows from north to south. This drainage ditch makes a 90-degree bend at the southwest corner of the site, then flows westward toward Pipe Creek. The Field Sampling Plan (FSP) proposed the collection of three collocated surface water and sediment samples from both ditches at AA2, with no sampling proposed for the drainage ditch at AA3. No sampling was proposed at AA3 based on a verbal description of the ditch by PBOSG workers. During a more thorough site walk it was determined that this ditch was significantly larger than described. The southern half of the ditch discharges water on a continuous basis during dry season and has substantial sediment. The CELRN geologist agreed to relocate the samples planned for the northern ditch at AA2 to the ditch at AA3. The specifics of each sampling task are discussed below.

3.5.1 Surface Water Sampling

Two separate sampling events were performed at the drainage ditches for surface water and sediment. The initial surface water sampling event was conducted 29 April 2005 and included three samples from the southern ditch at AA2 and three samples from the ditch at AA3. Surface water sampling was delayed until the spring of 2005 to allow for sufficient discharge. The drainage ditches at AA2 and the upper portion of the AA3 drainage ditch were dry during the fall 2004 sampling events. At each site, one sample was collected upgradient of the site, one

directly adjacent to the site, and one downgradient of the site (Figures 3-1 and 3-2, SWSD-01 through SWSD-03).

The second surface water sampling event was conducted 19 May 2006 through 21 May 2006, which involved 30 new sample locations (Figures 3-1 and 3-2). These samples were collected to provide additional data for the human health and ecological risk assessments. Twelve additional samples were collected from the southern drainage ditch at AA2, which included upstream, site adjacent, and downstream locations spaced approximately 200 ft apart. Eight samples were collected from the northern drainage ditch at AA2, which had not previously been sampled. This included upstream, site adjacent, and downstream locations spaced approximately 300 ft apart. Ten additional samples were collected from the drainage ditch west of AA3, which included upstream, site adjacent, and downstream locations spaced approximately 200 ft apart.

Surface water sample AA2-SWSD-06 was collected approximately 20 ft downstream of the original proposed location, from an outfall pipe draining the western portion of the site, which discharged on the northern side of the southern drainage ditch at AA2. A decision was made in the field in conjunction with the on-site USACE geologist to collect this sample from the outfall pipe instead of the drainage ditch. The concrete outfall pipe was approximately 24-inches in diameter. The discharge rate from this outfall was measured at approximately 0.75 gallons per minute.

All sample locations were positioned as close to the center of the channel as possible, while avoiding sediment disturbance. All surface water samples were analyzed for VOCs, SVOCs, PCBs, nitroaromatics, and TAL metals. Surface water samples were collected by direct filling. For locations where water depth did not permit complete submersion of the sample container, an unpreserved sample jar was used to transfer water to the sample containers. All VOC and metals samples were collected by the transfer method to avoid loss of preservatives.

All surface water samples were collected during base flow conditions. No major precipitation events had occurred within 24 hours prior to sampling. Surface water at all locations exhibited low turbidity, with the exception of AA2-SWSD-01 and AA2-SWSD-04. These upstream locations at the southern AA2 drainage ditch contained ponded and cloudy water due to debris blockage 150 ft downstream of AA2-SWSD-01.

3.5.2 Sediment Sampling

Two separate sampling events were performed at the drainage ditches for sediment, as was conducted for the surface water. The initial sediment sampling was performed at three locations at the southern AA2 drainage ditch and three locations at the AA3 drainage ditch, co-located with the initial six surface water samples. These six initial sediment samples were collected 27 October 2004. The additional 30 sediment samples co-located with the 30 additional surface water samples were collected 9 June 2006 through 12 June 2006. These samples were collected to provide additional data for the human health and ecological risk assessments and to provide further contaminant delineation.

All sample locations were positioned in the center of the channel. All sediment samples were analyzed for VOCs, SVOCs, PCBs, nitroaromatics, and TAL metals.

Sediment samples were collected with a hand auger equipped with dedicated disposable stainless steel sleeves. VOC samples were collected directly from the sleeve using a certified pre-preserved VOC sample kit. Samples for non-VOC analyses were extruded from the sleeve and homogenized in a dedicated disposable glass bowl using a stainless steel spoon.

Dedicated disposable spoons and bowls were used for each sample. Sampling equipment was cleaned prior to use; first with an alqinox wash, then a potable water rinse, and a final rinse with ASTM Type 2 DI water. Equipment was then individually wrapped in aluminum foil to ensure no contaminants were introduced. The hand auger was decontaminated between each sample using the standard alqinox wash, potable rinse, and final ASTM Type 2 DI rinse.

No standing or flowing water was present in the drainage ditches at AA2 during both sediment sampling events. No standing or flowing water was present at the upstream locations at the AA3 drainage ditch during sampling. Standing water with minimal flow was present during sampling of the lower two-thirds of the AA3 drainage ditch during both sampling events. The initial six sediment sampling locations were staked and surveyed for later reference for the surface water sampling event in April 2005. The additional sampling locations established in 2006 were also surveyed at the conclusion of the sampling event.

3.6 SAMPLE PACKAGING, SHIPPING, AND DOCUMENTATION

Sample packaging, shipping, and documentation procedures described in the Site-Wide Sampling and Analysis Plan (SAP) (Jacobs 2004a) were followed during the field investigation of the Acid Areas. Samples were packaged and shipped to the analytical laboratories via Federal Express. Chain of custodies were completed and maintained throughout the collection, shipping and laboratory analysis phase.

3.7 EQUIPMENT DECONTAMINATION

The procedures and processes, as defined in the Site-Wide SAP (Jacobs, 2004a) for equipment decontamination were strictly adhered to during all sample collection activities.

The downhole DPT equipment was pressure-washed and steam-cleaned prior to and between each borehole location. Sample-specific equipment such as mixing bowls and mixing spoons were decontaminated prior to use and disposed after collection of each sample.

All drilling equipment used to install the groundwater monitoring wells was steam-cleaned prior to the start of drilling, between each borehole and at the conclusion of final borehole installation, prior to releasing the equipment from the site.

Small reusable hand tools such as hand augers, water level meters, bladder pumps, pressure transducers, well slugs, and associated cables and lines were decontaminated between each sampling location. Sampling equipment was cleaned using the standard three-step process: first with an alqinox wash, then a potable rinse, and a final ASTM Type 2 DI rinse.

3.8 HANDLING OF INVESTIGATION-DERIVED WASTES

All soil and liquid IDW was containerized and labeled according to contents, origin, and sampling activities. Soil IDW was staged at each site, while liquid IDW was transported to an indoor facility with freeze protection. Characterization sampling was performed for all IDW prior to transportation and disposal at an approved off-site facility. Details regarding IDW management are presented below.

Three 55-gallon drums of soil cuttings were generated during the DPT soil boring and piezometer installation activities, one at AA2 and two at AA3. Two drums of disposable sampling equipment were also generated during the soil investigation, one at each site. A total of 25 drums of soil and rock cuttings were generated during the well installation activities. A total of 19 drums of water were generated from equipment decontamination, monitoring well development, and well purging during Round 1 groundwater sampling. Five drums of water were generated during Round 2 groundwater sampling.

Soil IDW characterization sampling was performed on 16 December 2004. A total of six soil samples were collected. Each sample represented a composite of soil samples from multiple drums associated with specific locations. All composite soil samples included a small amount of material from each container, which was homogenized in a glass bowl with a stainless steel spoon. Soil sample composition was as follows:

- Sample 1 – composite from AA3-GW-003 and AA3-BEDGW-002 (8 drums)
- Sample 2 – composite from AA3-GW-004 and AA3-BEDGW-003 (6 drums)
- Sample 3 – composite from AA3-GW-005 (2 drums)
- Sample 4 – composite from AA3-BEDGW-004 (9 drums)
- Sample 5 – composite of all AA3 soil borings and piezometer borings (2 drums)
- Sample 6 - composite of all AA2 soil borings and piezometer borings (1 drum)

One liquid IDW characterization sample was collected on 1 February 2005 after completion of Round 1 groundwater sampling. This sample was a composite of 19 drums that were generated from equipment decontamination, well development, and well purging. An additional liquid IDW sample was collected 30 April 2005 after completion of Round 2 groundwater sampling. This sample was a composite of 5 drums generated from well purging associated with Round 2 groundwater sampling. Composite samples were obtained by collecting equal amounts of water from each of the drums using a glass Watera Tube. These representative samples were then dispensed into an empty container that originally contained ASTM Type 2 DI water. Sample bottles were then filled from the composite container.

IDW samples were packaged and shipped to an off-site laboratory. Soil IDW was analyzed for toxicity characterization leaching potential (TCLP) VOCs, TCLP SVOCs, TCLP metals, ignitability, corrosivity, and reactivity. Liquid IDW was analyzed for VOCs, SVOCs, metals, ignitability, corrosivity, and reactivity. Sample results indicated all IDW was considered non-hazardous.

Soil IDW was transported from the site on 28 January 2005. Liquid IDW generated through January of 2005 was transported from the site on 29 April 2005. All IDW was disposed at an approved off-site facility. Liquid IDW generated during the Round 2 groundwater sampling event and during additional sediment sampling event is staged at an indoor facility awaiting transportation and disposal. Based on IDW characterization sampling, this waste is non-hazardous and will be disposed during the next major sampling event, scheduled for April 2007.

3.9 ANALYTICAL LABORATORY ANALYSIS AND DATA EVALUATION

The following sections describe the analytical methods, the data evaluation, and discuss the limitations of the data. Attachment 2 to the Chemical Data Quality Reports, included as Appendix J, contains a complete listing of the primary laboratory results and qualifiers applied as part of the data evaluations. Appendix J contains four separate Chemical Data Quality Reports (one for each sampling event); soil and sediment sampling (2004), round one groundwater (2005), surface water and round two groundwater (2005), and additional surface water and sediment (2006). Appendix K contains Chemical Quality Assurance Reports for the soil and sediment sampling (2004), the round one groundwater (2005), surface water and round two groundwater (2005), and additional surface water and sediment (2006). The Chemical Quality Assurance Reports detail the evaluation of the Quality Assurance (QA) sample results and comparison to the associated primary results (Appendix K).

3.9.1 Laboratory Analysis

The Acid Areas RI included surface soil, subsurface soil, sediment, surface water, and groundwater sampling. Laboratory analyses conducted for all media are presented in Attachment 1 of the associated Chemical Data Quality Reports.

For the 2004 Acid Areas soil and sediment sampling event, Ecology and Environment, Inc. performed the VOC, SVOC, nitroaromatic, PCB, and metals analyses for the primary samples. ELAB of Tennessee performed the VOC, SVOC, nitroaromatic, PCB, and metals QA analyses.

For the 2005 Acid Areas round one groundwater sampling event, Ecology and Environment, Inc. performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the primary samples. ELAB of Tennessee performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the QA samples.

For the 2005 Acid Areas surface water and round two groundwater sampling event, ELAB of Tennessee performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the primary samples. GPL Laboratories performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the QA samples.

For the 2006 Acid Areas surface water and sediment sampling event, ELAB of Tennessee performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the primary samples. GPL Laboratories performed the VOC, SVOC, nitroaromatic, PCB, metals, and water quality analyses for the QA samples.

All the laboratories provided complete data packages including the laboratory quality control documentation and raw data required by the SAP (Jacobs 2004b). Each data package included

a case narrative describing the analytical methods used and documenting any quality control problems encountered.

3.9.2 Evaluation of Laboratory Data

3.9.2.1 Data Quality Assessment

Jacobs evaluated 100 percent of the primary sample data collected in support of the Acid Areas RI. The data evaluations were performed in accordance with the requirements of the SAP (Jacobs 2004), and guidance provided in the Louisville Chemistry Guideline (LCG), Revision 5, June 2002. The Chemical Data Quality Reports summarizing the Jacobs' data evaluation in terms of precision, accuracy, representativeness, comparability, and completeness are provided as Appendix J. The qualifiers applied as part of the data evaluation are defined in Section 2.0 of the Chemical Data Quality Report and the limitations implied by the qualification should be considered when reviewing the data.

3.9.2.2 Chemical Quality Assessment Report

QA samples were collected at a frequency of ten percent and analyzed for the same parameters as the primary samples. Stratum Engineering, an independent third party firm, performed the evaluation of the QA sample data and comparison of the QA data to the corresponding primary results from the 2004 and 2005 sampling events. An independent team from the Jacobs Denver office provided third party evaluation of the QA data from the 2006 sampling event. The Chemical Quality Assessment Reports were prepared in accordance with the requirements of the SAP (Jacobs 2004b) and the guidance of "Chemical Quality Assurance for HTRW Projects" (USAEC HTRW-CX 1997). The reports summarize the details of the evaluation performed by Stratum Engineering for the 2004 and 2005 sampling events and by Jacobs Denver office for the 2006 sampling event (Appendix K).

3.9.3 Data Limitations

There were no significant data limitations noted for the data collected from the four sampling events at the Acid Areas. Minor quality control (QC) deficiencies were present that resulted in data qualification as reported in the Chemical Data Quality Reports included as Appendix J. The data reported were found to be acceptable with the required qualifications. The data is definitive and acceptable for the intended data usages.

3.10 DATA SCREENING

EPA Region 9 Preliminary Remediation Goals (PRG) are used to determine contaminants of potential concern (COPCs). The analytical data has been evaluated using these PRGs as a screening tool to reduce the list of detected chemicals to those warranting further consideration. PRGs are not being used as a regulatory level, nor a substitute for a risk assessment.

PRGs are calculated using toxicity data and standard risk-assessment exposure scenarios to derive concentrations of fixed levels of risk. The PRGs correspond to either a hazard quotient of 1 or an excess lifetime cancer risk of 10^{-6}, whichever is the lower concentration. The cancer risk of 10^{-6} reflects the lower end of the target risk range as defined in the National Contingency

Plan (EPA, 1990). Non-carcinogenic PRGs were divided by a factor of ten to account for potential cumulative effects from multiple compounds. Chemicals present in environmental media at concentrations below the PRGs are not expected to contribute significantly to total site risk.

4.0 SOIL INVESTIGATION RESULTS

Previous investigations at the Acid Areas confirmed the presence of soil contamination due to former PBOW operations. The objective of the soil investigation conducted under this RI was to evaluate the presence of soil contamination at additional former site facilities, not previously tested. Results from this study as well as data obtained during the 1998 SI are presented below.

4.1 DISTRIBUTION OF CONTAMINANTS IN SOIL AT ACID AREA 2

4.1.1 Surface Soil

A total of 28 surface soil samples have been collected at AA2, which includes 15 samples collected during the 1998 SI and 13 samples collected during this RI. Contaminants detected include VOCs, nitroaromatics, SVOCs, PCBs, and metals (Tables 4-1 through 4-4). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) and established background values for inorganics (IT, 1998) include the following:

- Benzo(a)pyrene – 13 locations
- Benzo(a)anthracene - 4 locations
- Benzo(b)fluoranthene – 4 locations
- Benzo(k)fluoranthene – 1 location
- Dibenz(a,h)anthracene – 8 locations
- Indeno(1,2,3-cd)pyrene – 4 locations
- PCB-1254 (Aroclor 1254) – 8 locations
- PCB-1260 (Aroclor 1260) – 16 locations
- Lead – 2 locations
- Thallium – 1 location

Distributions and concentrations of contaminants in the surface soil exceeding the PRGs are presented in Figure 4-1.

4.1.2 Subsurface Soil

A total of 35 subsurface soil samples have been collected from 28 locations at AA2, which includes 15 samples from 15 locations during the 1998 SI and 20 samples from 13 locations during this RI. Sample depths for the 1998 SI ranged from two to ten ft bgs (Table 1-1). Depths for the 2004 RI samples were limited to the three to five ft interval and the eight to ten foot

interval (Table 3-1). Contaminants detected include VOCs, SVOCs, PCBs, and metals (Tables 4-5 through 4-8). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) and established background values for inorganics (IT, 1998) include the following:

- Benzo(a)pyrene –3 locations
- Benzo(a)anthracene - 1 location
- Benzo(b)fluoranthene – 1 location
- Dibenz(a,h)anthracene – 2 locations
- Indeno(1,2,3-cd)pyrene – 1 location
- PCB-1254 (Aroclor 1254) – 1 location
- PCB-1260 (Aroclor 1260) – 3 locations
- Thallium – 3 locations

Distributions and concentrations of contaminants in the subsurface soil exceeding the PRGs are presented on Figure 4-2.

4.2 DISTRIBUTION OF CONTAMINANTS IN SOIL AT ACID AREA 3

4.2.1 Surface Soil

A total of 34 surface soil samples have been collected at AA3, which includes 20 samples collected during the 1998 SI and 14 samples collected during this RI. Contaminants detected include VOCs, nitroaromatics, SVOCs, PCBs, and metals (Tables 4-9 through 4-12). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) and established background values for inorganics (IT, 1998) include the following:

- Benzo(a)pyrene – 15 locations
- Benzo(a)anthracene - 2 locations
- Benzo(b)fluoranthene – 2 locations
- Dibenz(a,h)anthracene – 3 locations
- Indeno(1,2,3-cd)pyrene – 3 locations
- PCB-1254 (Aroclor 1254) – 7 locations

- PCB-1260 (Aroclor 1260) – 12 locations
- Lead – 1 location

Distributions and concentrations of compounds exceeding the PRGs in subsurface soil are presented on Figure 4-3.

4.2.2 Subsurface Soil

A total of 40 subsurface soil samples have been collected from 32 locations at AA3, which includes 18 samples from 18 locations during the 1998 SI and 22 samples from 14 locations during this RI. Sample depths for the 1998 SI ranged from two to ten ft bgs (Table 1-2). Sample depths for the 2004 RI were limited to the three to five ft interval and the eight to ten foot interval (Table 3-1). Contaminants detected include VOCs, nitroaromatics, SVOCs, PCBs, and metals (Tables 4-13 through 4-16). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) and established background values for inorganics (IT, 1998) include the following:

- Benzo(a)pyrene –1 location
- Thallium – 1 location

Distributions and concentrations of compounds exceeding the PRGs in subsurface soil are presented on Figure 4-4.

5.0 GROUNDWATER INVESTIGATION RESULTS

The objective of this groundwater investigation was to characterize the shallow and bedrock aquifers and to evaluate the presence of chemical contamination in groundwater in the vicinity of the Acid Areas. Results from this study are presented below.

5.1 SITE-WIDE GROUNDWATER FLOW CHARACTERIZATIION

Water level data were used to generate groundwater elevation contour maps, which were useful in determining gradients and flow direction for the shallow overburden and bedrock aquifers (Figures 5-3 through 5-5). Groundwater elevation contour maps for the bedrock aquifer at AA2 were not generated because of limited data. Monitoring wells AA2-BEDGW-001 and PB-BED-MW19 represent the only bedrock wells at AA2 monitored during this investigation. Site-wide bedrock groundwater contour maps provided in the 2004 Groundwater Data Summary and Evaluation Report (Shaw 2004a) have been used to evaluate bedrock groundwater gradients at AA2.

5.1.1 Groundwater Flow Within the Overburden

Water level measurements were collected from ten temporary piezometers, five at each site. A total of six measurements were collected over a period of six months from 8 November 2004 through 21 April 2005. Piezometer hydrographs show water levels at both sites reached a high point in January 2005 and remained high through April 2005 (Figures 5-1 and 5-2).

Shallow groundwater at AA2 flows eastward toward Pipe Creek. The drainage ditches to the north and south of the site also influence the shallow groundwater flow, as evidenced by the steep gradients on the northern and southern perimeter of the site (Figure 5-3). Shallow groundwater levels observed from the piezometers and monitoring wells range from 2.1 to 5.9 ft bgs (Table 5-1).

Shallow groundwater at AA3 flows toward the center of the site and then westward toward the drainage ditch located on the western perimeter of the site. A storm sewer system was observed running north-south on the east side of the inner most railroad tracks. Water could be heard running through the system during non-storm conditions, thus leaks in the piping are allowing the shallow groundwater to be drained in the center of the site. A discharge pipe was also observed on the east side of the drainage ditch near the center of the site. This likely accounts for the groundwater low in the center of the site (Figure 5-4). Shallow groundwater levels observed from the piezometers and monitoring wells range from 1.0 to 6.0 ft bgs (Table 5-2).

5.1.2 Groundwater Flow in Bedrock

Water level measurements were collected from two bedrock wells at AA2 and three bedrock wells at AA3, during both rounds of sampling. The two locations at AA2, do not provide sufficient control for mapping purposes. Water level measurements from other bedrock wells in the vicinity of AA2 were used to generate a bedrock groundwater contour map provided in the 2004 Groundwater Data Summary and Evaluation Report (Shaw 2004). . Based on these data,

bedrock groundwater at AA2 flows to the east, west, and north, away from a groundwater high situated in the center of the site.

Based on the site-wide groundwater study (Shaw, 2004a), bedrock groundwater in the vicinity of AA3 should flow toward the north; however, the water level measurements collected from the bedrock wells at AA3, indicate a groundwater high located in the central portion of the site (Figure 5-5). This would result in radial flow away from the high toward the north, south, and east. This groundwater high is based on the data collected from bedrock monitoring well AA3-BEDMW-003, which shows water levels considerably higher than the surrounding area. The bedrock groundwater levels at AA3-BEDMW-003 are one ft. lower than the overburden groundwater. One explanation for this could be the presence of fractures throughout the upper portion of the Delaware Limestone, allowing this portion of the aquifer to be hydraulically connected to the Plum Brook Shale and the overburden groundwater.

Monitoring well AA3-BEDMW-003 was screened from 40 to 50 ft bgs, or 7.5 to 17.5 ft below the top of the Delaware Limestone. This well was constructed with a six-inch surface casing set two feet below the top of the Plum Brook shale and a four-inch casing set 2.5 ft below the top of the Delaware limestone. Both sets of casing were installed with a bentonite slurry and allowed to set overnight before proceeding with further drilling, thus leaks along the well annulus are not a likely explanation for the potential cross communication between the upper and lower aquifers.

Monitoring well AA3-BEDMW-004 was left as an open borehole completion, pending further monitoring. Water level measurements were attempted during the regularly scheduled measurements at all of the AA3 wells. No water was detected in the borehole, however the probe was covered with naturally occurring petroleum during the final measurement April 2005. Based on visual inspection of the probe, approximately 6 inches of standing petroleum is present in the bottom of the well.

5.2 GROUNDWATER QUALITY

Two rounds of groundwater samples were collected from the shallow and bedrock monitoring wells at each site. Data from samples collected January 2005 are presented in the Round 1 Quarterly Groundwater Monitoring Report (Jacobs, 2005). Data from samples collected April 2005 are presented in the Final Round 2 Quarterly Groundwater Monitoring Report (Jacobs,2006).

5.2.1 Shallow Groundwater

Contaminants detected in shallow groundwater at AA2 during two rounds of sampling in 2005 include VOCs, SVOCs, and metals (Tables 5-3 and 5-4) . The organic detections are limited to a few locations and a few compounds. The SVOC detection is limited to bis(2-ethylhexyl)phthalate, a common lab artifact, which was detected in monitoring well IT-MW10 during Round 2 only.

The VOCs detected at monitoring well AA2-GW-002 during Round 1 include benzene, cyclohexane, ethylbenzene, isopropylbenzene, methylcyclohexane, and xylenes, all at relatively low levels. The results for benzene, ethylbenzene, and isopropylbenzene are J-flagged because the detection is between the reporting limit and the detection limit, indicating that the detections

are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples. These contaminants are found in groundwater in most of the bedrock wells, which are associated with naturally occurring petroleum in the Delaware Limestone. AA2-GW-002 was the only shallow well where bladder pump #2 was used during Round 1 sampling. This pump was used for all of the bedrock wells. It is possible that residual amounts of contaminants were left in the pump after decontamination. Precautions were made during Round 2 to ensure that the pump used for sampling bedrock wells was not used in a shallow well. These contaminants were not detected during Round 2.

Contaminants detected in shallow groundwater at AA3 during two rounds of sampling in 2005 include VOCs and metals (Table 5-7). The organic detections are limited to a few locations and a few compounds. The two VOCs (cyclohexane and methylcyclohexane) detected in monitoring wells AA3-GW-004 and AA3-GW-005 during Round 2 are J-flagged because the detection is between the reporting limit and the detection limit, indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples. These contaminants were not detected during Round 1 sampling.

Methylene chloride, which is a common lab artifact, was detected in monitoring well AA3-GW-002 during Round 2 only.

No contaminants exceeded the USEPA Region 9 Residential PRGs (October 2004) in shallow groundwater at AA2. The only contaminant exceeding the PRGs at AA3 is arsenic, which was detected in both rounds at AA3-GW-005. Arsenic concentrations were 12.5 ug/L and 8.1 ug/L respectively from both rounds. Although background groundwater concentrations were not established for shallow groundwater, the background value for arsenic in bedrock groundwater is 7.4 ug/L.

Since no additional monitoring wells were installed at AA2, the shallow groundwater downgradient of the site has not been fully evaluated. However, monitoring well IT-MW10 is positioned to evaluate shallow groundwater downgradient of the southwestern portion of the site.

5.2.2 Bedrock Groundwater

Contaminants detected in bedrock groundwater during two rounds of sampling include VOCs, nitroaromatics, SVOCs, and metals (Tables 5-5, 5-6, 5-8, and 5-9). The organic compounds are present at all bedrock locations and include numerous VOCs associated with naturally occurring petroleum (Table 5-4). SVOCs were detected in three bedrock wells and are limited to napthalene and 2-methylnapthalene, which are also compounds associated with naturally occurring petroleum, which is present in the Delaware Limestone. All of these detections are J-flagged because the detection is between the reporting limit and the detection limit indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples. Further characterization of the organic compounds is to be performed by NASA in an attempt to confirm the source of these compounds.

Five nitroaromatic compounds were detected in four bedrock wells during Round 2 only. All of these detections are J-flagged because the detection is between the reporting limit and the

detection limit, indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples.

Bedrock monitoring wells with associated contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) and established background values for organics and inorganics are as follows:

- AA2-BEDGW-001 Arsenic (Round 1 only, not detected Round 2)
- PB-BED-MW19 Benzene (Rounds 1 and 2)
  TCE (Round 2 only)
- AA3-BEDGW-001 Benzene (Round 2 only)
  PCE (Round 2 only)
- AA3-BEDGW-002 Benzene (Rounds 1 and 2)
  PCE (Round 2 only)
- AA3-BEDGW-003 Benzene (Rounds 1 and 2)
  Xylene (Round 2 only)
  2-Nitrololuene (Round 2 only)

Benzene and xylene have been detected in other background monitoring wells completed in the Delaware Limestone and are compounds found in naturally occurring petroleum. The Delaware Limestone is known to contain naturally occurring petroleum in the region.

TCE was not detected in monitoring well PB-BED-MW19 during eight prior sampling events dating back to 1994. PCE was not detected in AA3-BEDGW-001 during five prior sampling events dating back to 1997. Both the TCE and PCE detections are J-flagged because the detection is between the reporting limit and the detection limit, indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the sample.

The nitroaromatic compound 2-Nitrotoluene was not detected during Round 1 and the detection is J-flagged because the detection is between the reporting limit and the detection limit.

Arsenic concentrations at AA2-BEDGW-001 were measured at 7.04 ug/L (dissolved) and 7.95 ug/L (total) compared to a background value of 7.4 ug/L. Arsenic was detected at only one other bedrock well (AA3-BEDMGW-003) at 5.08 ug/L.

6.0 SURFACE WATER AND SEDIMENT INVESTIGATION RESULTS

Thirty-six surface water and sediment samples were collected from the drainage ditches, fifteen from the southern AA2 drainage ditch, eight from the northern AA2 drainage ditch, and thirteen from the AA3 drainage ditch. Six sediment samples were collected 27 October 2004 and thirty additional sediment samples were collected 9 June 2006 through 12 June 2006. Six surface water samples were collected 29 April 2005 and thirty additional surface water samples were collected 19 May 2006 through 21 May 2006. Locations are presented on Figures 3-1 and 3-2.

6.1 DISTRIBUTION OF CONTAMINANTS AT ACID AREA 2

Contaminants detected in surface water at AA2 include SVOCs, PAHs, and metals (Tables 6-1 and 6-2). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) for drinking water include the following:

- Iron - 6 locations
- Manganese – 1 location
- Aluminum – 1 location
- Arsenic – 1 location
- Vanadium – 1 location
- Bis(2-Ethylhexyl)phthalate – 1 location
- Trichloroethene – 1 location

Results for the arsenic, vanadium, and trichloroethene exceedances are J-flagged because the detection is between the reporting limit and the detection limit, indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples. Trichloroethene was not detected in any other surface water samples. The bis(2-Ethylhexyl)phthalate exceedance is both J-flagged and was detected in the associated trip blank and is recognized as a common lab artifact. Distributions and concentrations of compounds exceeding the PRGs in surface water at AA2 are presented in Figure 6-1.

Contaminants detected in sediment at AA2 include VOCs, SVOCs, PAHs, nitroaromatics, PCBs, and metals (Tables 6-3 and 6-4). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) for soil and established background values for inorganics in soil include the following:

- PCB (aroclor 1260) – 12 locations
- Benzo(a)pyrene – 10 locations

- Lead – 10 locations
- Benzo(b)flouranthene – 5 locations
- Thallium – 3 locations
- Benzo(a)anthracene – 2 locations
- N-Nitroso-di-n-propylamine – 2 locations
- PCB-1254 (Aroclor 1254) – 1 location
- aluminum – 1 location
- dibenz(a,h)anthracene – 1 location
- indeno(1,2,3-cd)pyrene – 1 location

Distributions and concentrations of compounds exceeding the PRGs in sediment at AA2 are presented in Figure 6-2.

6.2 DISTRIBUTION OF CONTAMINANTS AT ACID AREA 3

Contaminants detected in surface water at AA3 are limited to metals and very few organic compounds (Tables 6-5 and 6-6). All but one of the organic compound detections are J-flagged because the detection is between the reporting limit and the detection limit, indicating that the detections are estimated and the associated numerical values are the approximate concentrations of the respective analytes in the samples.

Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) for drinking water is limited to one exceedance for manganese (Figure 6-3).

Contaminants detected in sediment at AA3 include VOCs, SVOCs, PAHs, nitroaromatics, PCBs, and metals (Tables 6-7 and 6-8). Specific compounds exceeding the USEPA Region 9 Residential PRGs (October 2004) for soil include the following:

- Benzo(a)pyrene – 3 locations
- Lead – 2 locations
- Thallium – 2 locations
- PCB-1254 (Aroclor 1254)– 1 location
- PCB-1260 (Aroclor 1260)– 1 location

Distributions and concentrations of compounds exceeding the PRGs in sediment at AA3 are presented in Figures 6-3.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The results of this investigation indicate that contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) are present at the AA2 and AA3 sites. Sufficient soil data have been collected for the AA2 and AA3 soil to support a risk assessment. Sufficient data have also been collected to evaluate impacts to the surface water in the drainage ditches at both sites. Sufficient data have also been collected to evaluate impacts to the groundwater at both sites. Additional investigation will be required to fully delineate the extent of contamination in the soil.

7.1 SOIL INVESTIGATION

7.1.1 Acid Area 2

A total of 63 soil samples have been collected from the AA2 site during the 1998 SI and the 2004 -2005 RI. Contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) are primarily limited to surface soil (Figures 4-1 and 4-2). Sixteen of the 28 samples collected from the surface of AA2 contained contaminants exceeding PRGs (Figure 4-1), whereas only seven of the 35 subsurface soil samples exceeded the PRGs (Figure 4-2).

Surface soil contamination is limited primarily to PCBs and SVOCs. PCBs represent the most common contaminant at the site. Seventy-five percent of the surface soil samples contain PCBs. The highest concentrations of PCBs tend to occur within the footprint of the former storage tanks. PCB concentrations are also elevated around the footprint of the former process buildings. PCB exceedances were also detected in more remote areas away from buildings, but with less frequency and at lower concentrations.

SVOC contamination in the surface soil tends to occur at the same locations impacted by PCBs. The highest concentration of SVOCs occurs around the perimeter of former Buildings 702 and 708. Elevated SVOC concentrations also coincide with the storage tanks.

Subsurface soil contamination is minimal and is limited to less than five ft bgs. No SVOCs or PCBs were detected in samples collected below 5 ft, with the exception of three samples containing bis(2-ethylhexyl)phthalate, a common lab artifact. Subsurface soil contamination exceeding the PRGs is limited to two samples collected at Building 702 and two samples collected at the Oleum Storage tanks (Figure 4-2). Three additional locations exceeded the PRGs for metals. These locations had thallium exceedances slightly above the PRGs and generally less than an order of magnitude greater than the background levels.

7.1.2 Acid Area 3

A total of 74 soil samples have been collected from the AA3 site during the 1998 SI and the 2004 -2005 RI. Contaminants exceeding the USEPA Region 9 Residential PRGs (October 2004) are primarily limited to surface soil (Figures 4-3 and 4-4). Seventeen of the 34 samples collected from the surface of AA3 contained contaminants exceeding PRGs (Figure 4-3), whereas only two of the 40 subsurface soil samples exceeded the PRGs (Figure 4-4).

Surface soil contamination is limited primarily to PCBs and SVOCs. PCBs represent the most common contaminant at the site. Sixty-two percent of the surface soil samples contain PCBs. The maximum concentrations of PCBs are not as high at AA3 compared to AA2. The highest concentrations of PCBs tend to occur within the footprint of the former storage tanks and process facilities east of the rail line, between former Buildings 801 and 808. PCB concentrations are also elevated around the footprint of the former power substation. PCB exceedances were not detected in more remote areas away from buildings and tanks as at AA2, however there were only three borings at AA3 that fall in this category.

SVOC contamination tends to occur at the same locations impacted by PCBs. The highest concentration of SVOCs occurs at two locations not associated with AA3 (SB-08 and SB-10). Both of these locations are south of Maintenance Road, one being associated with the former Waste Water Treatment Facility. Elevated SVOC concentrations were also found in the vicinity of Building 803, Building 808, the strong acid storage facilities, and the power substation.

Subsurface soil contamination is minimal at AA3. Only two samples collected from the subsurface exceeded the PRGs, one for benzo(a)pyrene at SB-08, which is not part of the AA3 facility, and one metal exceedance (thallium). PCBs were detected in the subsurface at only two locations (SB-19 and SB-23), and no PCBs were detected in samples collected below 5 ft. SVOCs were detected in 15 subsurface soil samples, seven of which had only bis(2-ethylhexyl)phthalate, a common lab artifact. Of the remaining eight SVOC detections all but two were from depths of less than 5 ft bgs.

7.2 GROUNDWATER INVESTIGATION

Groundwater characterization included six rounds of water level measurements from temporary piezometers and permanent monitoring wells, aquifer testing of all newly installed wells, and two rounds of quarterly sampling.

Shallow groundwater at AA2 flows eastward toward Pipe Creek. Shallow groundwater at AA3 flows toward the center of the site and then westward toward the drainage ditch located on the western perimeter of the site. Bedrock groundwater at AA2 flows to the east, west, and north, away from a groundwater high situated in the center of the site. Bedrock groundwater at AA3 flows to north, east, and south, away from a groundwater high located in the center of the site.

Groundwater has been adequately characterized at both sites with the exception of shallow groundwater downgradient of AA2. Based on analytical data, contaminants found in the soil at AA2 and AA3 are not detected in the groundwater, with the exception of methyl ethyl ketone. The primary contaminants in soil, PCBs and SVOCs, were not detected in the shallow groundwater, with the exception of a low level detect (1.2J µg/L) of bis(2-ethylhexyl)phthalate (BEHP) in monitoring well IT-MW10. BEHP is a common laboratory contaminant, and since the compound was only detected at one location at a low level (less than the RL), the detection may be a laboratory artifact. No PCBs were detected in the bedrock groundwater. The only SVOCs detected in bedrock groundwater which exceed the PRGs is napthalene, which is a compound associated with naturally occurring petroleum, which is present in the Delaware Limestone. Other non-petroleum related organic compounds have been detected in the bedrock groundwater at levels below PRGs; however these compounds were detected in samples collected prior to 2005 and were not detected consistently during every sampling event. Any

further bedrock groundwater characterization will be conducted under the site-wide investigation. Risks associated with groundwater exposure are assessed in the Baseline Human Health Risk Assessment of Groundwater Report for Plum Brook (Shaw, 2006). Further characterization of the shallow groundwater downgradient of AA2 is not anticipated. Sufficient data has been collected from the shallow groundwater to indicate that this unit does not yield sufficient volume to be a viable groundwater source. The Acid Area 2 & 3 Human Health Risk Assessment Work Plan consequently does not include a quantitative risk assessment of the shallow groundwater.

7.3 SURFACE WATER AND SEDIMENT INVESTIGATION

7.3.1 Acid Area 2

A total of 23 co-located surface water and sediment samples were collected at AA2, 15 from the southern ditch and 8 from the northern ditch. Three initial surface water and sediment samples were collected from the southern drainage ditch at AA2. The initial sediment samples were collected on 27 October 2004. The initial surface water samples were collected 29 April 2005 co-located with the initial sediment samples. Based on data from these initial samples, twenty additional locations were samples at AA2. The additional surface water samples were collected May 2006 and the additional sediment samples were collected June 2006.

Site contaminants found in the soil at AA2 were not detected in the surface water, however they were found in the sediment. PCB aroclor-1260 and/or benzo(a)pyrene were present at levels above the PRGs at eighty percent of the locations sampled at AA2. The concentration of benzo(a)pyrene is greatest in the northern drainage ditch at AA2 ranging from 2900 ug/Kg at the most upstream location to 200 ug/Kg at the most downstream location. Benzo(a)pyrene is present in all sediment samples from the northern AA2 drainage ditch and exceeds the PRGs in seven of the eight locations. In the AA2 southern drainage ditch the highest concentration of Benzo(a)pyrene is 300 ug/Kg and was detected at only six of the 15 sampling locations.

The concentration of PCB aroclor-1260 is also greatest in the northern drainage ditch at AA2 ranging from 18000 ug/Kg near the center of the site to 48 ug/Kg downstream of the site. PCB aroclor-1260 is present in all sediment samples from the northern AA2 drainage ditch and exceeds the PRGs in five of the eight locations. In the AA2 southern drainage ditch the highest concentration of PCB aroclor-1260 is 3140 ug/Kg and the PRGs are exceeded in seven of the 15 sampling locations.

7.3.2 Acid Area 3

A total of 13 co-located surface water and sediment samples were collected from the single drainage ditch at AA3, located on the western side of the site. Three initial sediment samples were collected on 27 October 2004. Three initial surface water samples were collected on 29 April 2005 co-located with the initial sediment samples. Based on data from these initial samples, ten additional locations were samples at AA3. The additional surface water samples were collected May 2006 and the additional sediment samples were collected June 2006.

Site contaminants found in the soil at AA3 were not detected in the surface water, however they were found in the sediment. PCB aroclor-1260 and/or benzo(a)pyrene were present at levels

above the PRGs at twenty-five percent of the locations sampled at AA3. Benzo(a)pyrene was detected in the sediment at levels exceeding the PRGs at three of the thirteen sampling locations. The highest concentration detected was 510 ug/Kg. PCB aroclor-1260 is was detected in sediment at levels exceeding the PRGs at one of the 13 sampling locations at a concentration of 1130 ug/Kg.

7.3.3 Sediment Contaminant Sources and Mobilization

The mobilization of contaminated soil may have occurred due to the processes in place at the facility. Based on the site process descriptions for the Volunteer Army Ammunition Plant, neutralized acid waste was discharged into an acid neutralizing pit, then transferred to a holding pond, and eventually discharged into a ditch. Drainage grates are also present at the surface of each site, which could have allowed contaminated soil to be easily transported to the drainage ditches. Floor drains at the process facilities may also have had direct connection to the storm sewer and the drainage ditches. The higher concentration of PAHs and PCBs in the northern drainage ditch at AA2 may be related to it's proximity to the former rail line; however, soil samples collected along the rail line did not show elevated concentrations of PAHs and PCBs.

The contaminated sediment does not appear to be mobilized and transported downstream during storm events, as evidenced by the highest concentrations of PAHs and PCBs being near the center of the site and the minimal contamination downstream at all three drainage ditches.

7.4 CONCEPTUAL SITE MODEL

The Conceptual Site Model (CSM) for AA2 and AA3 is based on information collected during the 1991 PA, 1995 records review, the 1998 SI, and the 2004-2005 RI. Both sites can be addressed by one CSM because the sites are very similar. Sufficient data have been collected to develop a facility profile, physical profile, release profile, and land use and exposure profiles. Collection of ecological data was not within the scope of these investigations; therefore, data are not available for the development of an ecological profile.

The facility profile addressing site structures, physical boundaries, and current and historical processes, is presented in Sections 1.0 and 2.0 of this document. The primary source of contamination at the site is surface soil in the vicinity of former buildings and storage tanks. Contaminants present in the surface soil include PCBs, and SVOCs. Another source of contamination is the sediment in the ditches at both sites. Contaminants present in the sediment include PCBs and SVOCs. The highest concentrations of PCBs are found in the vicinity of the former storage tanks. The highest concentrations of SVOCs are found in the vicinity of former process facility buildings.

The physical profile addressing topographic features, vegetation, surface water features, geology, and meteorological data, has been presented in Section 2.0 of this document. Additional geologic, hydrologic, and hydrogeologic data was collected during this investigation, as presented in Sections 4.0, 5.0, and 6.0. Major components of the physical profile are the intermittent silts in the upper portion of the overburden and the highly plastic clay layer in the bottom half of the overburden. These two units control the movement of shallow groundwater at the site. The storm sewer system at AA3 is another major feature affecting the flow of shallow groundwater, because it serves to drain the center of the site, causing shallow groundwater to

flow from the perimeter to the center. Based on this model, the preferential flow path for shallow groundwater is laterally through the silt layer towards the drainage ditches, rather than downward migration. The storm sewer systems at both sites also may have enabled the transport of site contaminants into the sediments in the drainage ditches.

The release profile has been evaluated for contaminants which are generally fixed to soil. The primary site contaminants; PCBs, PAHs, and lead are generally fixed to soil and sediment are thus not susceptible to leaching in shallow groundwater.

The primary release mechanism for site contaminants is the removal of the vegetative layer. Removal of the vegetative layer is unlikely to occur by natural processes. Some form of construction or other human activity would be required for this release mechanism. If the contaminated soil were to be exposed, fugitive dust, localized to the immediate site, would also be a potential release mechanism.

Release of site contaminants by leaching into the shallow groundwater has low potential based on the chemical affinity with soil for these compounds. The absence of these compounds in the subsurface soil supports this conclusion. Lateral migration of contaminants through the shallow groundwater and discharge into the drainage ditches is shown on Figure 7-1 as an unlikely exposure route. These contaminants were not detected in the surface water. Release of contaminants into the deeper bedrock groundwater is unlikely because of the absence of contaminants in the shallow groundwater. The more conductive silt deposits near the surface would serve as a preferential flow path for lateral migration of any contaminated groundwater toward the drainage ditches.

The land use and exposure profiles are included in Figure 7-1. The primary exposure scenarios for current site use are dermal contact to exposed soil and sediment. Dermal contact and/or ingestion of bedrock groundwater are also potential contaminant exposure routes; however, the contaminants present in the bedrock groundwater are present on a regional scale, are naturally occurring, and are not the result of historical activities at the AA2 or AA3 sites. The primary exposure scenarios for future land use are the same as the current routes, with the exception of exposed soil and fugitive dust in the immediate vicinity for future residents.

7.5 RECOMMENDATIONS

Further actions should be considered to address the contaminants exceeding the USEPA Region 9 PRGs in soil and sediment at AA2 and AA3. The recommendations are as follows:

- Perform a human health and ecological risk assessment using existing site data.
- Evaluate the need for any future remedial actions based on results from the human health and ecological risk assessments.

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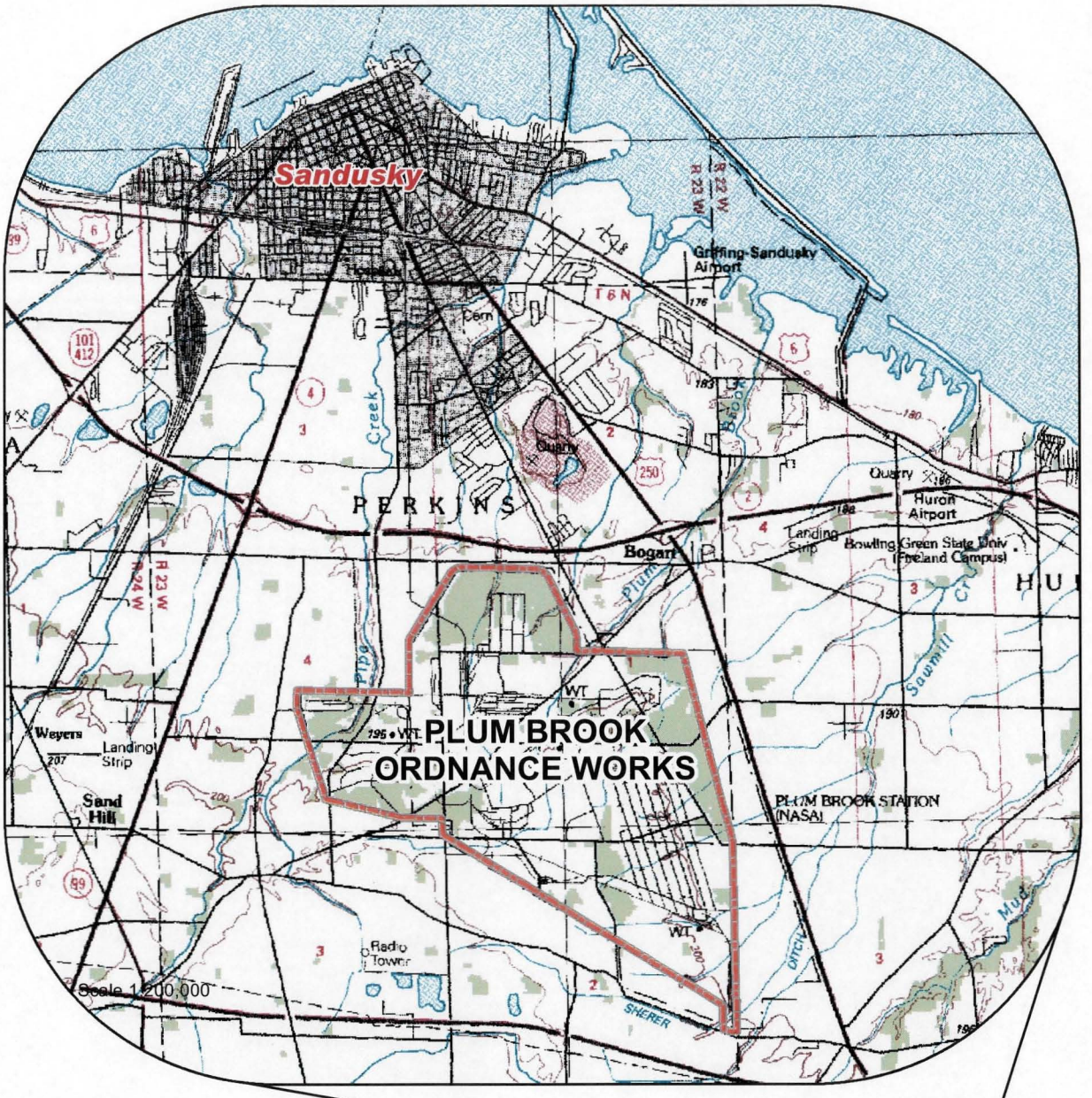
FIGURES



0 0.5 1 2
Miles

Legend

Plum Brook Ordnance Works Boundary

N

JACOBS

Location Map,
Plum Brook Ordnance Works
Sandusky, Ohio

Plumbrook Ordnance Works
Sandusky, Ohio

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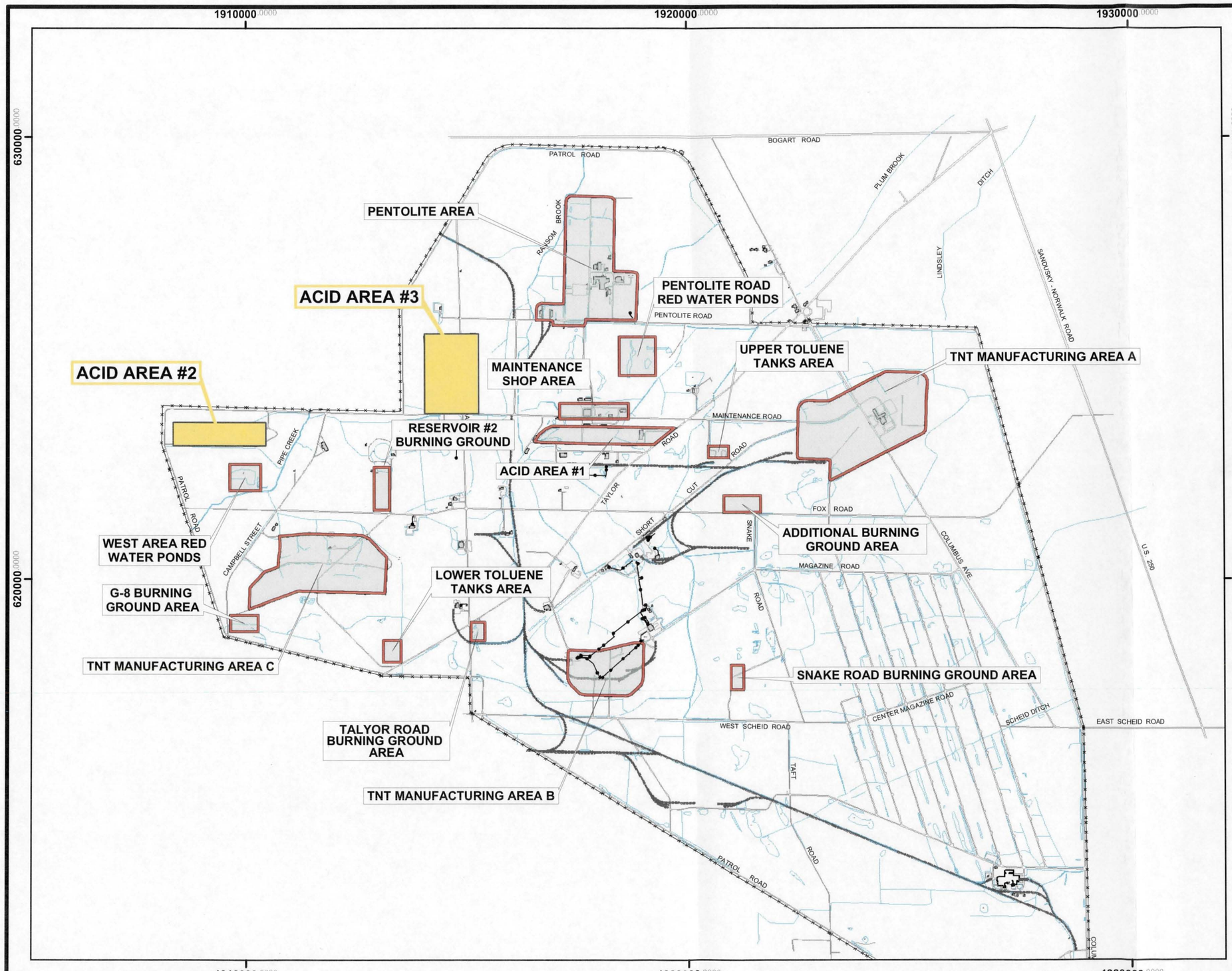
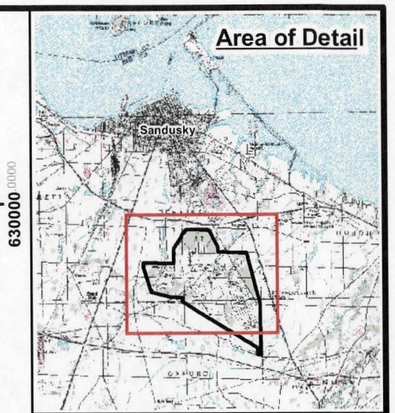
Figure 1-1





Legend

Area of Concern

Creek, Ditch, Conveyance

Sources

Data mapped to Ohio State Plane North NAD83, map grid units in feet.

N W E S

0 2,000 4,000 Feet

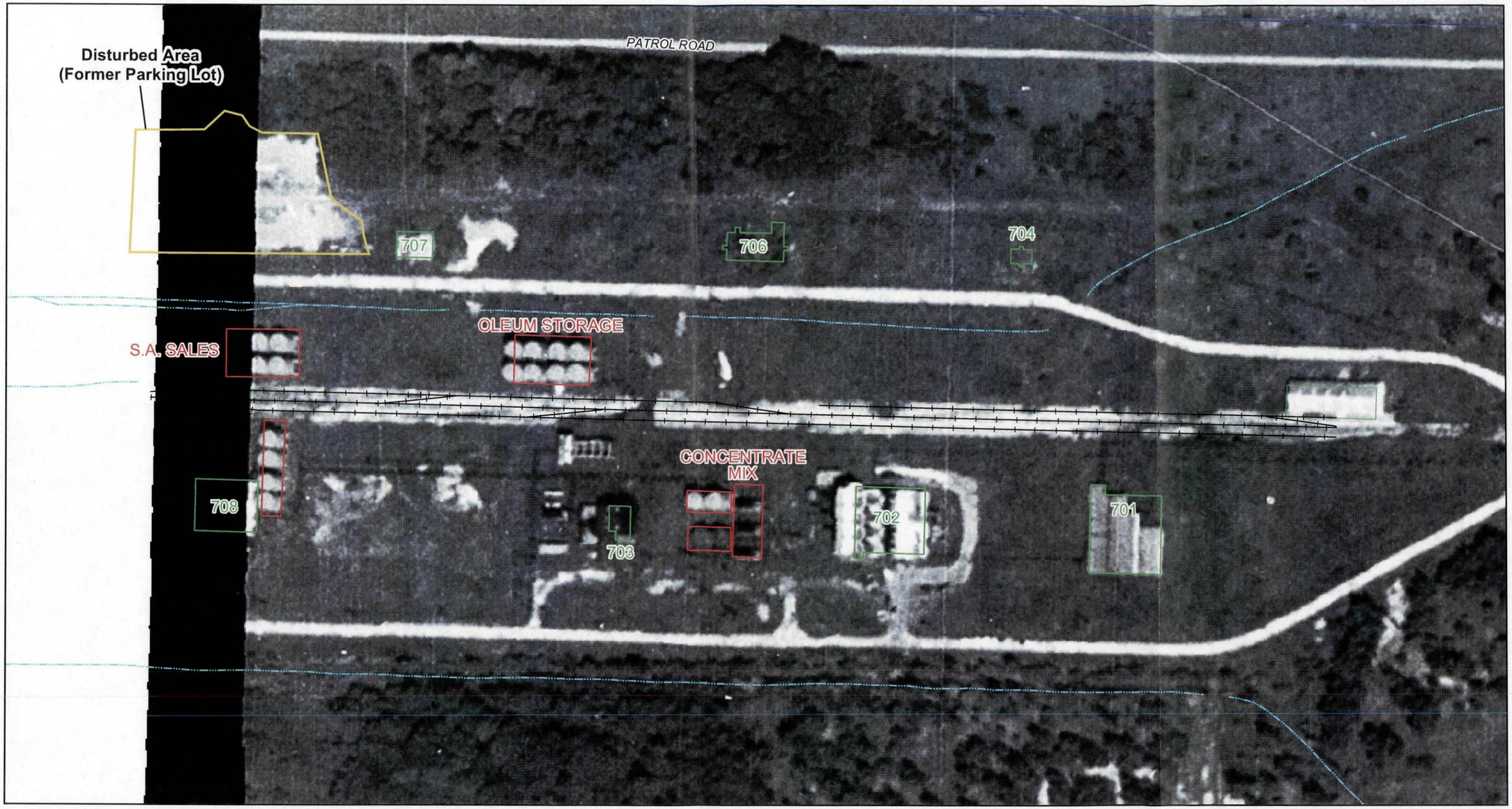
JACOBS

Location Map, Acid Area 2 and Acid Area 3

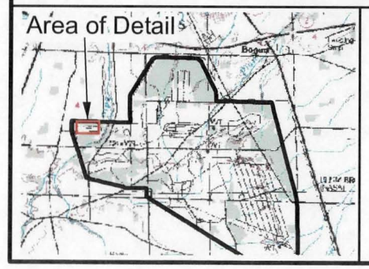
Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Acid_Areas2_3_LocMap.mxd

Figure 1-2



Area of Detail



Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

150 75 0 150
Feet

N

Notes: *Aerial Photography from 1958.*
Data mapped to Ohio State Plane North NAD83, map units are feet.

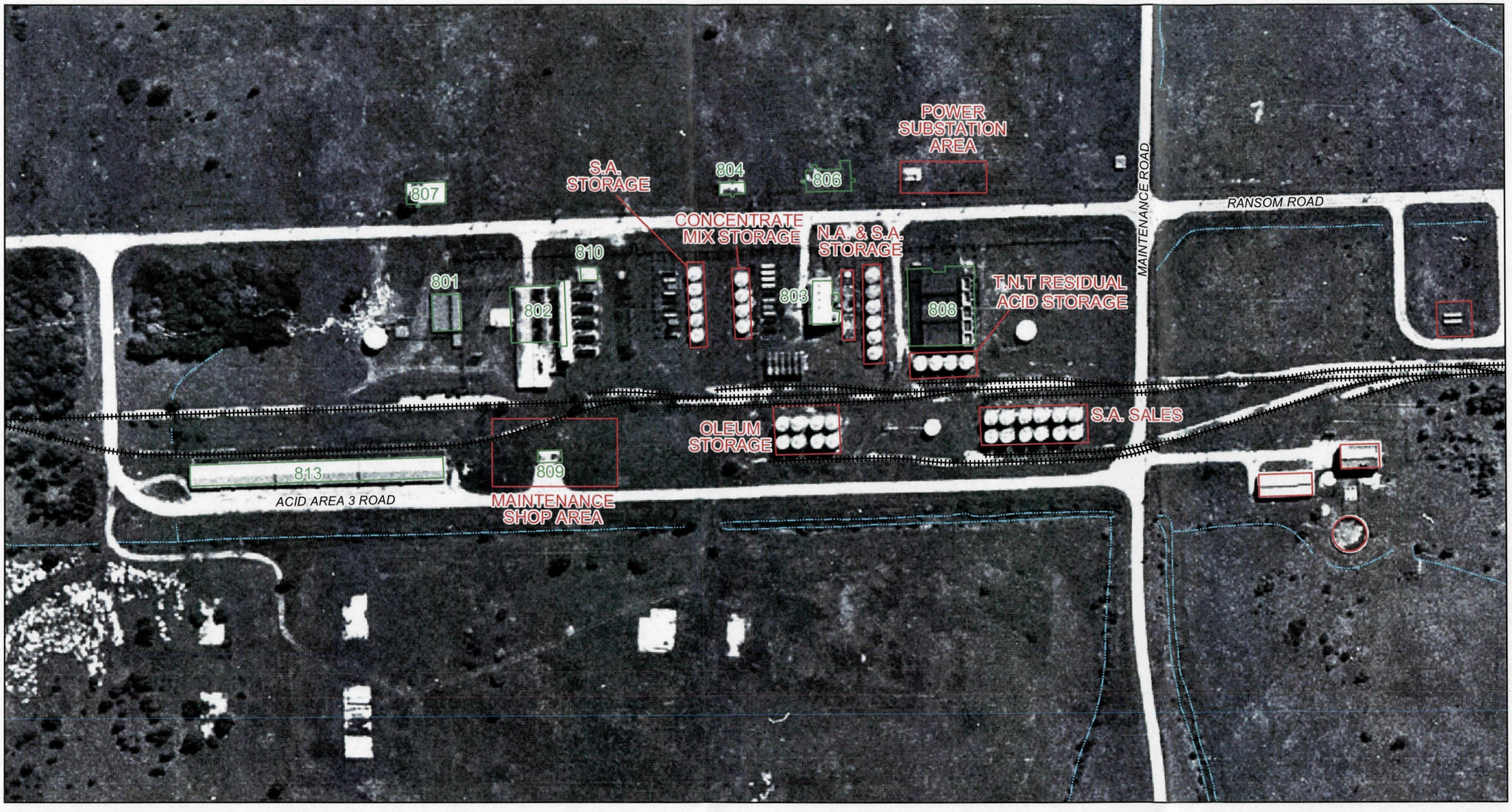
JACOBS

Acid Area 2 — 1958
Aerial Photography

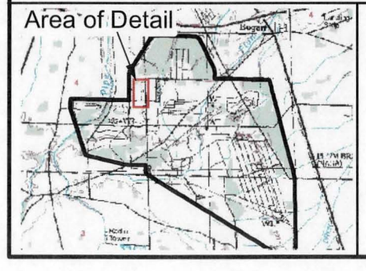
Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/
Final_AA2_3_RI/ArcGIS/Acid_Area2_1958.mxd

Figure 1-3



Area of Detail



Legend

- Storage Tank Areas from Engineering Drawings
- Buildings
- Creek, Ditch, Conveyance
- Railway

0 50 100 200
Feet

N

Notes: *Aerial Photography from 1958.*
Data mapped to Ohio State Plane North NAD83, map units are feet.

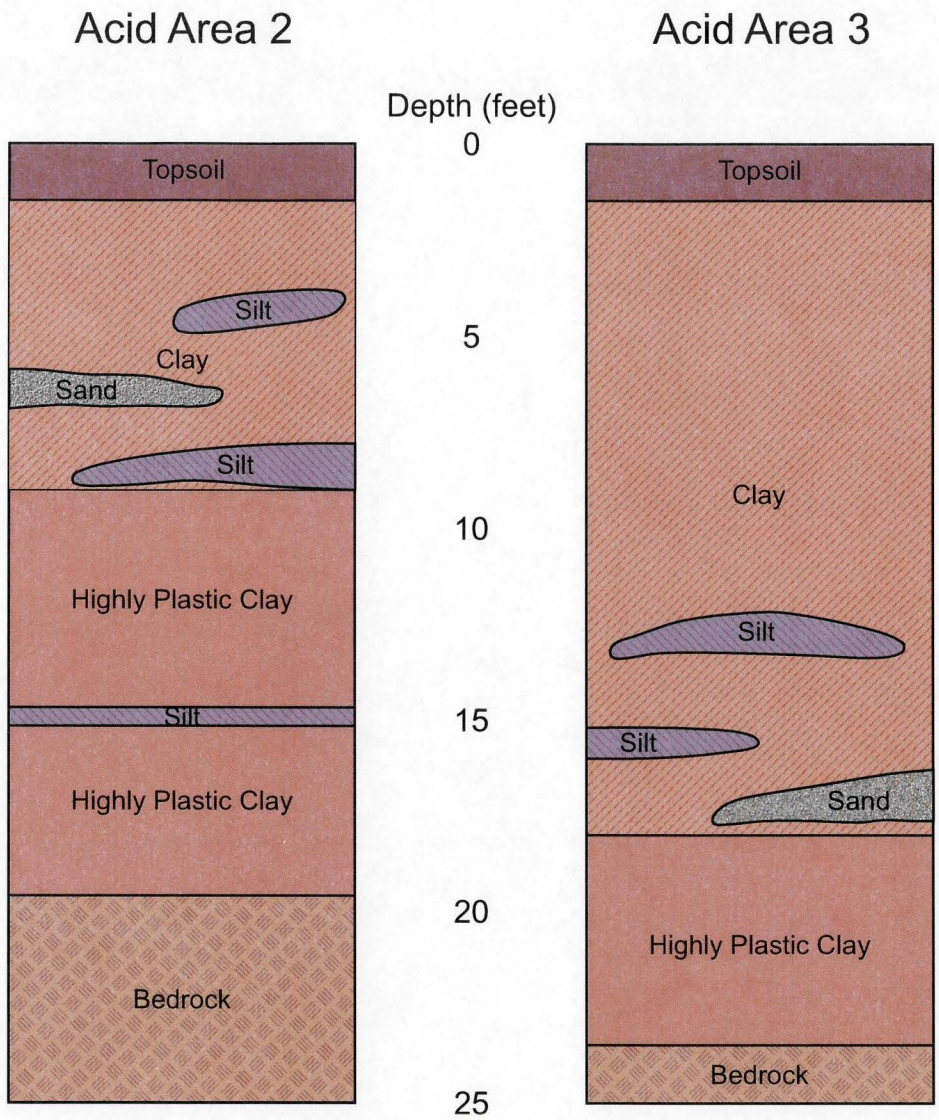
JACOBS

Acid Area 3 — 1958
Aerial Photography

Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Acid_Area3_1958.mxd

Figure 1-4



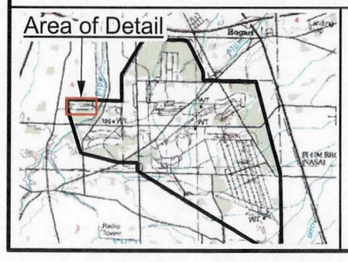
JACOBS

Generalized
Overburden Litholgy

03/21/07 DMF
Overburden.cdr

Figure 2-1

Area of Detail



Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- 1998 SI Soil Borings
- 2004 Soil Borings (1 surface sample and 2 subsurface samples)
- 2004 Soil Borings (1 surface sample and 1 subsurface sample)
- Monitoring Wells
- Piezometers
- Surface Water Sampling Locations

0 50 100 200
Feet

N

Notes: *Aerial Photography from 2005.*
Data mapped to Ohio State Plane North NAD83, map units are feet.

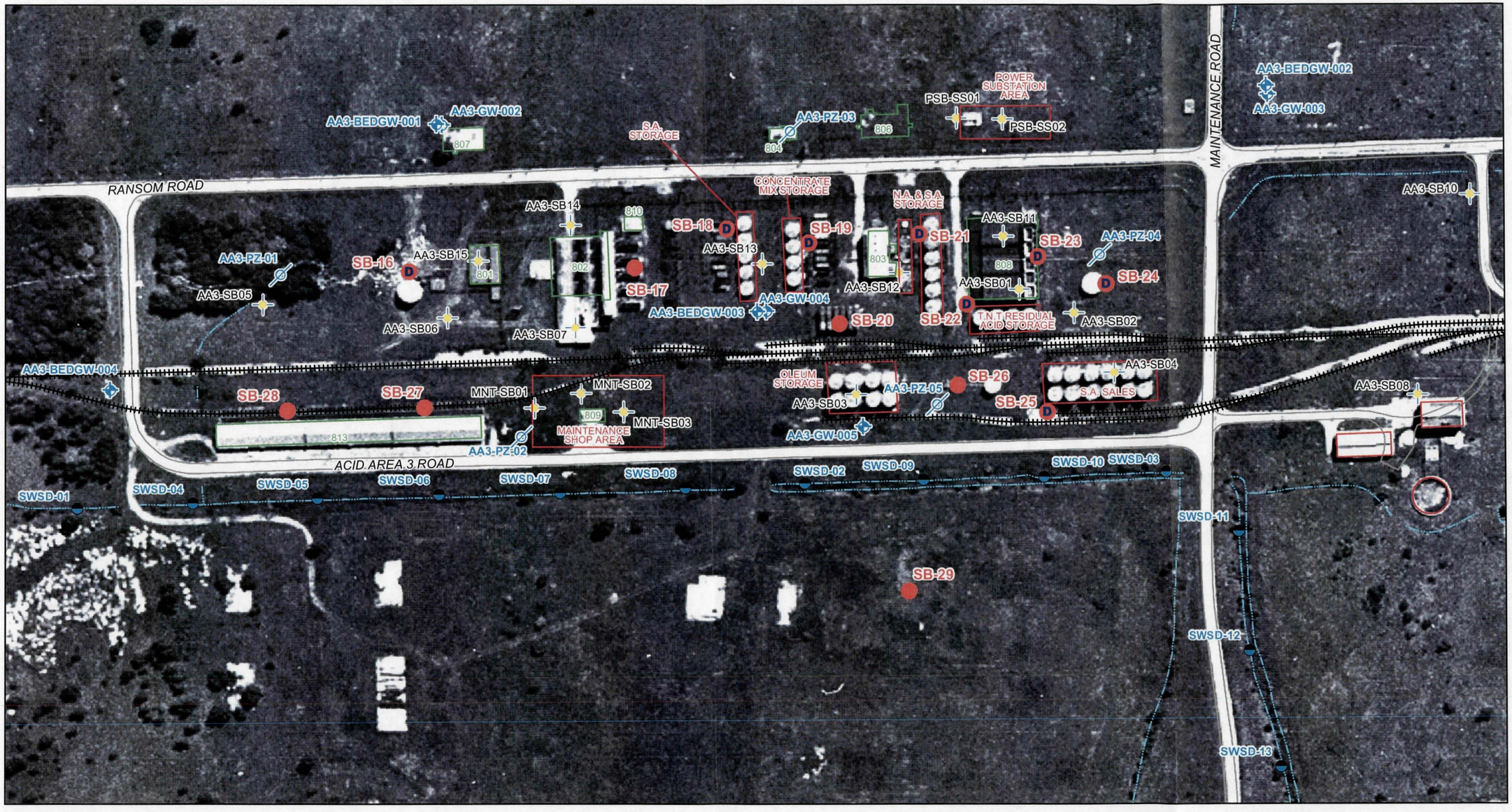
JACOBS

Sampling Locations — Acid Area 2

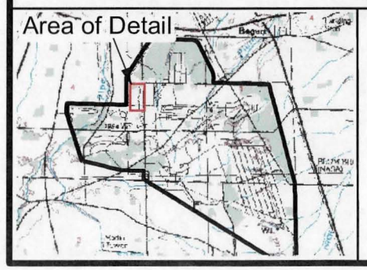
Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/AA2_Sampling_Locs.mxd

Figure 3-1



Area of Detail



Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- 1998 SI Soil Borings
- 2004 Soil Borings (1 surface sample and 2 subsurface samples)
- 2004 Soil Borings (1 surface sample and 1 subsurface sample)
- Monitoring Wells
- Piezometers
- Surface Water Sampling Locations

0 50 100 200
Feet

N

Notes: *Aerial Photography from 1958.*
Data mapped to Ohio State Plane North NAD83, map units are feet.

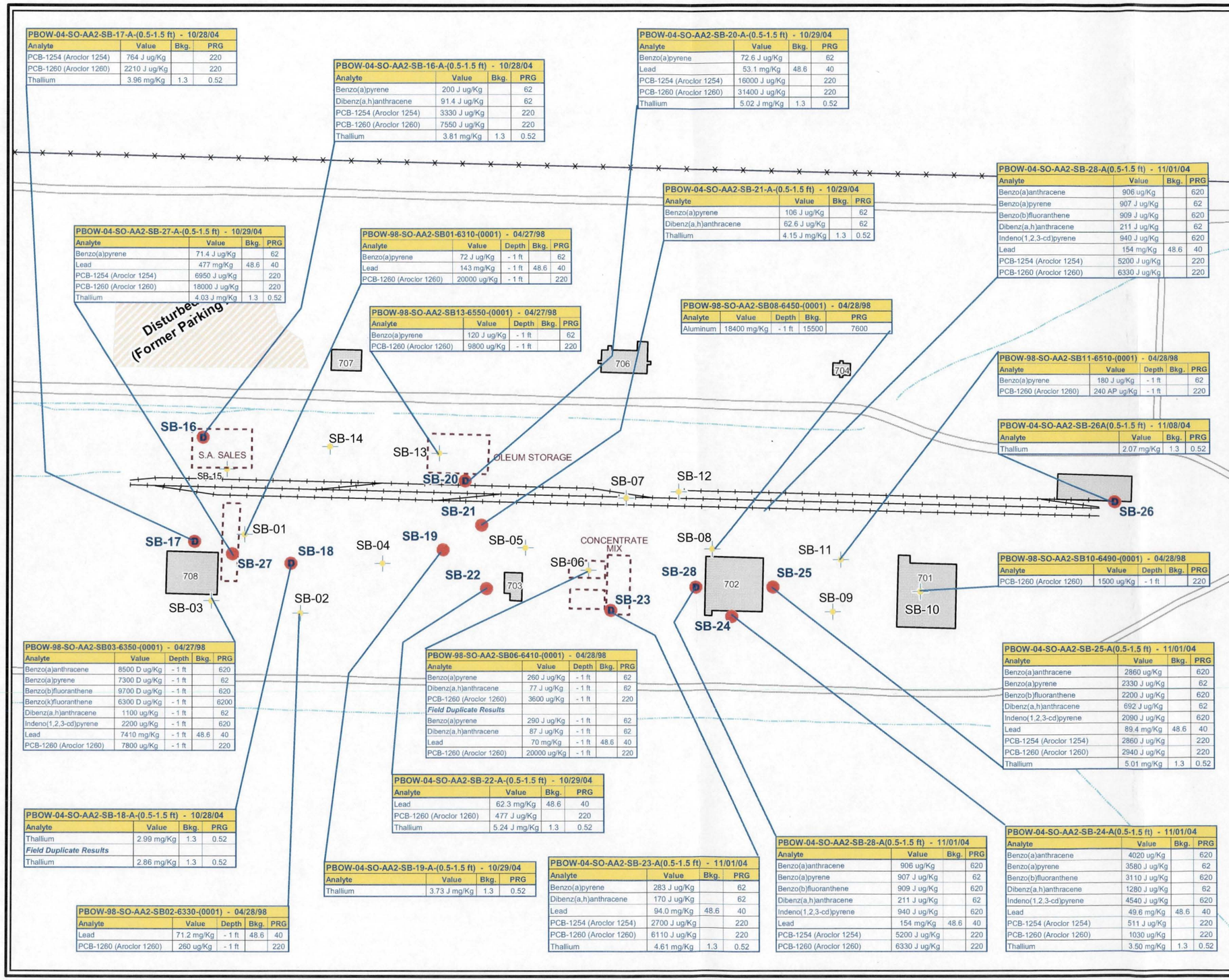
JACOBS

Sampling Locations — Acid Area 3

Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/AA3_Sampling_Locs.mxd

Figure 3-2



PBOW-04-SO-AA2-SB-17-A-(0.5-1.5 ft) - 10/28/04			
Analyte	Value	Bkg.	PRG
PCB-1254 (Aroclor 1254)	764 J ug/Kg		220
PCB-1260 (Aroclor 1260)	2210 J ug/Kg		220
Thallium	3.96 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-16-A-(0.5-1.5 ft) - 10/28/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	200 J ug/Kg		62
Dibenz(a,h)anthracene	91.4 J ug/Kg		62
PCB-1254 (Aroclor 1254)	3330 J ug/Kg		220
PCB-1260 (Aroclor 1260)	7550 J ug/Kg		220
Thallium	3.81 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-20-A-(0.5-1.5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	72.6 J ug/Kg		62
Lead	53.1 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	16000 J ug/Kg		220
PCB-1260 (Aroclor 1260)	31400 J ug/Kg		220
Thallium	5.02 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-28-A(0.5-1.5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	906 ug/Kg		620
Benzo(a)pyrene	907 J ug/Kg		62
Benzo(b)fluoranthene	909 J ug/Kg		620
Dibenz(a,h)anthracene	211 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	940 J ug/Kg		620
Lead	154 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	5200 J ug/Kg		220
PCB-1260 (Aroclor 1260)	6330 J ug/Kg		220

PBOW-04-SO-AA2-SB-21-A-(0.5-1.5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	106 J ug/Kg		62
Dibenz(a,h)anthracene	62.6 J ug/Kg		62
Thallium	4.15 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-27-A-(0.5-1.5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	71.4 J ug/Kg		62
Lead	477 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	6950 J ug/Kg		220
PCB-1260 (Aroclor 1260)	18000 J ug/Kg		220
Thallium	4.03 J mg/Kg	1.3	0.52

PBOW-98-SO-AA2-SB01-6310-(0001) - 04/27/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	72 J ug/Kg	- 1 ft		62
Lead	143 mg/Kg	- 1 ft	48.6	40
PCB-1260 (Aroclor 1260)	20000 ug/Kg	- 1 ft		220

PBOW-98-SO-AA2-SB13-6550-(0001) - 04/27/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	120 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	9800 ug/Kg	- 1 ft		220

PBOW-98-SO-AA2-SB08-6450-(0001) - 04/28/98				
Analyte	Value	Depth	Bkg.	PRG
Aluminum	18400 mg/Kg	- 1 ft	15500	7600

PBOW-98-SO-AA2-SB11-6510-(0001) - 04/28/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	180 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	240 AP ug/Kg	- 1 ft		220

PBOW-04-SO-AA2-SB-26A(0.5-1.5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Thallium	2.07 mg/Kg	1.3	0.52

PBOW-98-SO-AA2-SB10-6490-(0001) - 04/28/98				
Analyte	Value	Depth	Bkg.	PRG
PCB-1260 (Aroclor 1260)	1500 ug/Kg	- 1 ft		220

PBOW-98-SO-AA2-SB03-6350-(0001) - 04/27/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)anthracene	8500 D ug/Kg	- 1 ft		620
Benzo(a)pyrene	7300 D ug/Kg	- 1 ft		62
Benzo(b)fluoranthene	9700 D ug/Kg	- 1 ft		620
Benzo(k)fluoranthene	6300 D ug/Kg	- 1 ft		6200
Dibenz(a,h)anthracene	1100 ug/Kg	- 1 ft		62
Indeno(1,2,3-cd)pyrene	2200 ug/Kg	- 1 ft		620
Lead	7410 mg/Kg	- 1 ft	48.6	40
PCB-1260 (Aroclor 1260)	7800 ug/Kg	- 1 ft		220

PBOW-98-SO-AA2-SB06-6410-(0001) - 04/28/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	260 J ug/Kg	- 1 ft		62
Dibenz(a,h)anthracene	77 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	3600 ug/Kg	- 1 ft		220
Field Duplicate Results				
Benzo(a)pyrene	290 J ug/Kg	- 1 ft		62
Dibenz(a,h)anthracene	87 J ug/Kg	- 1 ft		62
Lead	70 mg/Kg	- 1 ft	48.6	40
PCB-1260 (Aroclor 1260)	20000 ug/Kg	- 1 ft		220

PBOW-04-SO-AA2-SB-25-A(0.5-1.5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	2860 ug/Kg		620
Benzo(a)pyrene	2330 J ug/Kg		62
Benzo(b)fluoranthene	2200 J ug/Kg		620
Dibenz(a,h)anthracene	692 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	2090 J ug/Kg		620
Lead	89.4 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	2860 J ug/Kg		220
PCB-1260 (Aroclor 1260)	2940 J ug/Kg		220
Thallium	5.01 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-22-A-(0.5-1.5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Lead	62.3 mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	477 J ug/Kg		220
Thallium	5.24 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-18-A-(0.5-1.5 ft) - 10/28/04			
Analyte	Value	Bkg.	PRG
Thallium	2.99 mg/Kg	1.3	0.52
Field Duplicate Results			
Thallium	2.86 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-19-A-(0.5-1.5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Thallium	3.73 J mg/Kg	1.3	0.52

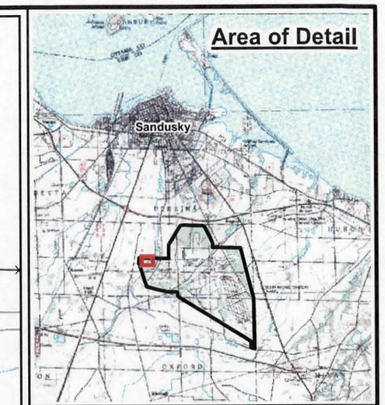
PBOW-98-SO-AA2-SB02-6330-(0001) - 04/28/98				
Analyte	Value	Depth	Bkg.	PRG
Lead	71.2 mg/Kg	- 1 ft	48.6	40
PCB-1260 (Aroclor 1260)	260 ug/Kg	- 1 ft		220

PBOW-04-SO-AA2-SB-23-A(0.5-1.5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	283 J ug/Kg		62
Dibenz(a,h)anthracene	170 J ug/Kg		62
Lead	94.0 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	2700 J ug/Kg		220
PCB-1260 (Aroclor 1260)	6110 J ug/Kg		220
Thallium	4.61 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-28-A(0.5-1.5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	906 ug/Kg		620
Benzo(a)pyrene	907 J ug/Kg		62
Benzo(b)fluoranthene	909 J ug/Kg		620
Dibenz(a,h)anthracene	211 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	940 J ug/Kg		620
Lead	154 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	5200 J ug/Kg		220
PCB-1260 (Aroclor 1260)	6330 J ug/Kg		220

PBOW-04-SO-AA2-SB-24-A(0.5-1.5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	4020 ug/Kg		620
Benzo(a)pyrene	3580 J ug/Kg		62
Benzo(b)fluoranthene	3110 J ug/Kg		620
Dibenz(a,h)anthracene	1280 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	4540 J ug/Kg		620
Lead	49.6 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	511 J ug/Kg		220
PCB-1260 (Aroclor 1260)	1030 ug/Kg		220
Thallium	3.50 mg/Kg	1.3	0.52

Area of Detail



Legend

- 1998 SI Soil Borings
- 2004 Soil Borings to 10 ft bgs
- 2004 Soil Borings to 5 ft bgs

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

0 50 100 200 Feet

N

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

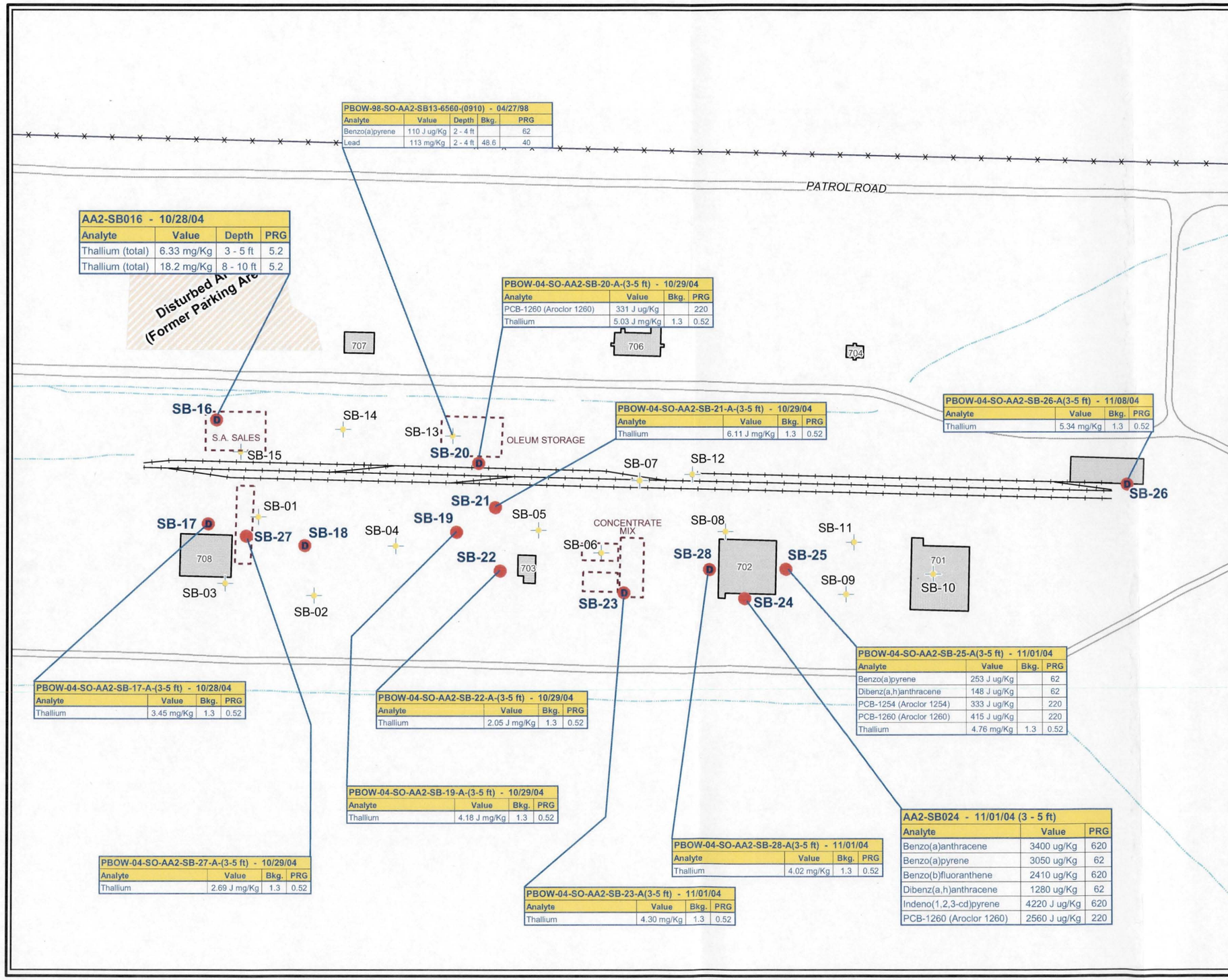
JACOBS

Distribution of Contaminants Exceeding PRG's in Surface Soil — Acid Area 2

Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA2_Surface_Soil.mxd

Figure 4-1



PBOW-98-SO-AA2-SB13-6560-(0910) - 04/27/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	110 J ug/Kg	2 - 4 ft		62
Lead	113 mg/Kg	2 - 4 ft	48.6	40

AA2-SB016 - 10/28/04			
Analyte	Value	Depth	PRG
Thallium (total)	6.33 mg/Kg	3 - 5 ft	5.2
Thallium (total)	18.2 mg/Kg	8 - 10 ft	5.2

PBOW-04-SO-AA2-SB-20-A-(3-5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
PCB-1260 (Aroclor 1260)	331 J ug/Kg		220
Thallium	5.03 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-21-A-(3-5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Thallium	6.11 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-26-A(3-5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Thallium	5.34 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-17-A-(3-5 ft) - 10/28/04			
Analyte	Value	Bkg.	PRG
Thallium	3.45 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-22-A-(3-5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Thallium	2.05 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-19-A-(3-5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Thallium	4.18 J mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-27-A-(3-5 ft) - 10/29/04			
Analyte	Value	Bkg.	PRG
Thallium	2.69 J mg/Kg	1.3	0.52

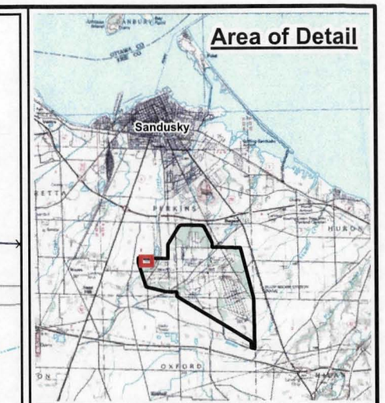
PBOW-04-SO-AA2-SB-23-A(3-5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Thallium	4.30 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-28-A(3-5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Thallium	4.02 mg/Kg	1.3	0.52

PBOW-04-SO-AA2-SB-25-A(3-5 ft) - 11/01/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	253 J ug/Kg		62
Dibenz(a,h)anthracene	148 J ug/Kg		62
PCB-1254 (Aroclor 1254)	333 J ug/Kg		220
PCB-1260 (Aroclor 1260)	415 J ug/Kg		220
Thallium	4.76 mg/Kg	1.3	0.52

AA2-SB024 - 11/01/04 (3 - 5 ft)		
Analyte	Value	PRG
Benzo(a)anthracene	3400 ug/Kg	620
Benzo(a)pyrene	3050 ug/Kg	62
Benzo(b)fluoranthene	2410 ug/Kg	620
Dibenz(a,h)anthracene	1280 ug/Kg	62
Indeno(1,2,3-cd)pyrene	4220 J ug/Kg	620
PCB-1260 (Aroclor 1260)	2560 J ug/Kg	220

Area of Detail



Legend

- 1998 SI Soil Borings
- 2004 Soil Borings to 10 ft bgs
- 2004 Soil Borings to 5 ft bgs

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

N

0 50 100 200 Feet

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

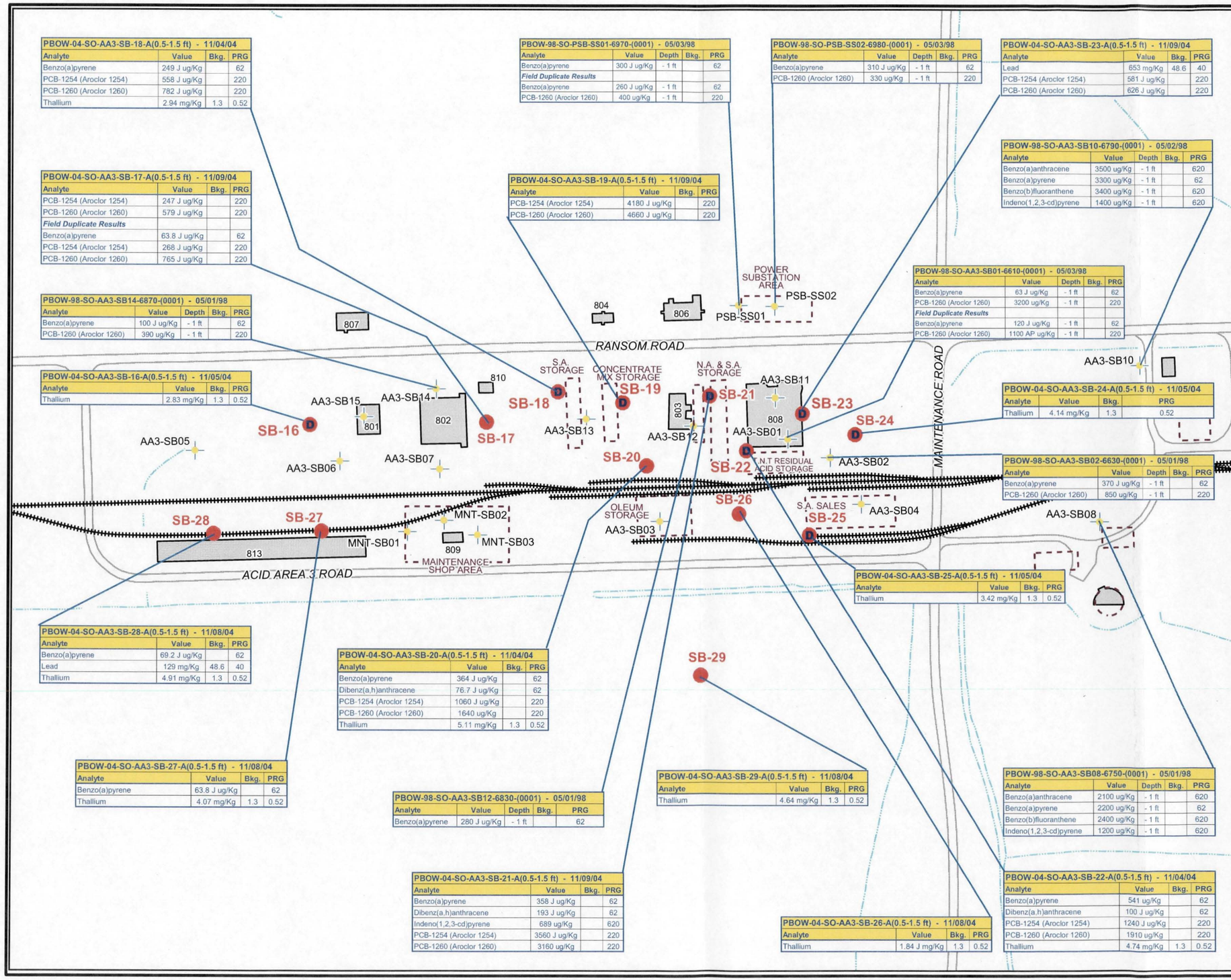
JACOBS

Distribution of Contaminants Exceeding PRG's in Subsurface Soil — Acid Area 2

Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA2_SubSurface_Soil.mxd

Figure 4-2



PBOW-04-SO-AA3-SB-18-A(0.5-1.5 ft) - 11/04/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	249 J ug/Kg		62
PCB-1254 (Aroclor 1254)	558 J ug/Kg		220
PCB-1260 (Aroclor 1260)	782 J ug/Kg		220
Thallium	2.94 mg/Kg	1.3	0.52

PBOW-98-SO-PSB-SS01-6970-(0001) - 05/03/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	300 J ug/Kg	- 1 ft		62
Field Duplicate Results				
Benzo(a)pyrene	260 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	400 ug/Kg	- 1 ft		220

PBOW-98-SO-PSB-SS02-6980-(0001) - 05/03/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	310 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	330 ug/Kg	- 1 ft		220

PBOW-04-SO-AA3-SB-23-A(0.5-1.5 ft) - 11/09/04			
Analyte	Value	Bkg.	PRG
Lead	653 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	581 J ug/Kg		220
PCB-1260 (Aroclor 1260)	626 J ug/Kg		220

PBOW-98-SO-AA3-SB10-6790-(0001) - 05/02/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)anthracene	3500 ug/Kg	- 1 ft		620
Benzo(a)pyrene	3300 ug/Kg	- 1 ft		62
Benzo(b)fluoranthene	3400 ug/Kg	- 1 ft		620
Indeno(1,2,3-cd)pyrene	1400 ug/Kg	- 1 ft		620

PBOW-04-SO-AA3-SB-17-A(0.5-1.5 ft) - 11/09/04			
Analyte	Value	Bkg.	PRG
PCB-1254 (Aroclor 1254)	247 J ug/Kg		220
PCB-1260 (Aroclor 1260)	579 J ug/Kg		220
Field Duplicate Results			
Benzo(a)pyrene	63.8 J ug/Kg		62
PCB-1254 (Aroclor 1254)	268 J ug/Kg		220
PCB-1260 (Aroclor 1260)	765 J ug/Kg		220

PBOW-04-SO-AA3-SB-19-A(0.5-1.5 ft) - 11/09/04			
Analyte	Value	Bkg.	PRG
PCB-1254 (Aroclor 1254)	4180 J ug/Kg		220
PCB-1260 (Aroclor 1260)	4660 J ug/Kg		220

PBOW-98-SO-AA3-SB01-6610-(0001) - 05/03/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	63 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	3200 ug/Kg	- 1 ft		220
Field Duplicate Results				
Benzo(a)pyrene	120 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	1100 AP ug/Kg	- 1 ft		220

PBOW-98-SO-AA3-SB14-6870-(0001) - 05/01/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	100 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	390 ug/Kg	- 1 ft		220

PBOW-04-SO-AA3-SB-16-A(0.5-1.5 ft) - 11/05/04			
Analyte	Value	Bkg.	PRG
Thallium	2.83 mg/Kg	1.3	0.52

PBOW-04-SO-AA3-SB-24-A(0.5-1.5 ft) - 11/05/04			
Analyte	Value	Bkg.	PRG
Thallium	4.14 mg/Kg	1.3	0.52

PBOW-98-SO-AA3-SB02-6630-(0001) - 05/01/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	370 J ug/Kg	- 1 ft		62
PCB-1260 (Aroclor 1260)	850 ug/Kg	- 1 ft		220

PBOW-04-SO-AA3-SB-25-A(0.5-1.5 ft) - 11/05/04			
Analyte	Value	Bkg.	PRG
Thallium	3.42 mg/Kg	1.3	0.52

PBOW-04-SO-AA3-SB-28-A(0.5-1.5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	69.2 J ug/Kg		62
Lead	129 mg/Kg	48.6	40
Thallium	4.91 mg/Kg	1.3	0.52

PBOW-04-SO-AA3-SB-20-A(0.5-1.5 ft) - 11/04/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	364 J ug/Kg		62
Dibenz(a,h)anthracene	76.7 J ug/Kg		62
PCB-1254 (Aroclor 1254)	1060 J ug/Kg		220
PCB-1260 (Aroclor 1260)	1640 ug/Kg		220
Thallium	5.11 mg/Kg	1.3	0.52

PBOW-04-SO-AA3-SB-27-A(0.5-1.5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	63.8 J ug/Kg		62
Thallium	4.07 mg/Kg	1.3	0.52

PBOW-98-SO-AA3-SB12-6830-(0001) - 05/01/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)pyrene	280 J ug/Kg	- 1 ft		62

PBOW-04-SO-AA3-SB-29-A(0.5-1.5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Thallium	4.64 mg/Kg	1.3	0.52

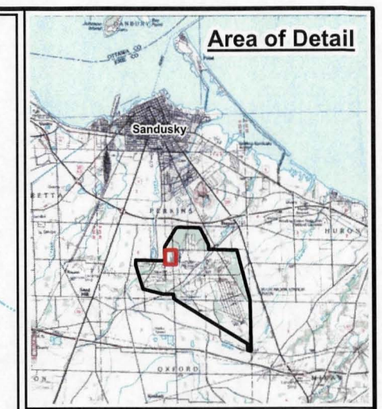
PBOW-98-SO-AA3-SB08-6750-(0001) - 05/01/98				
Analyte	Value	Depth	Bkg.	PRG
Benzo(a)anthracene	2100 ug/Kg	- 1 ft		620
Benzo(a)pyrene	2200 ug/Kg	- 1 ft		62
Benzo(b)fluoranthene	2400 ug/Kg	- 1 ft		620
Indeno(1,2,3-cd)pyrene	1200 ug/Kg	- 1 ft		620

PBOW-04-SO-AA3-SB-21-A(0.5-1.5 ft) - 11/09/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	358 J ug/Kg		62
Dibenz(a,h)anthracene	193 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	689 ug/Kg		620
PCB-1254 (Aroclor 1254)	3560 J ug/Kg		220
PCB-1260 (Aroclor 1260)	3160 ug/Kg		220

PBOW-04-SO-AA3-SB-26-A(0.5-1.5 ft) - 11/08/04			
Analyte	Value	Bkg.	PRG
Thallium	1.84 J mg/Kg	1.3	0.52

PBOW-04-SO-AA3-SB-22-A(0.5-1.5 ft) - 11/04/04			
Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	541 ug/Kg		62
Dibenz(a,h)anthracene	100 J ug/Kg		62
PCB-1254 (Aroclor 1254)	1240 J ug/Kg		220
PCB-1260 (Aroclor 1260)	1910 ug/Kg		220
Thallium	4.74 mg/Kg	1.3	0.52

Area of Detail



Legend

- 1998 SI Soil Borings
- 2004 Soil Borings to 10 ft bgs
- 2004 Soil Borings to 5 ft bgs

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

N

0 50 100 200 Feet

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

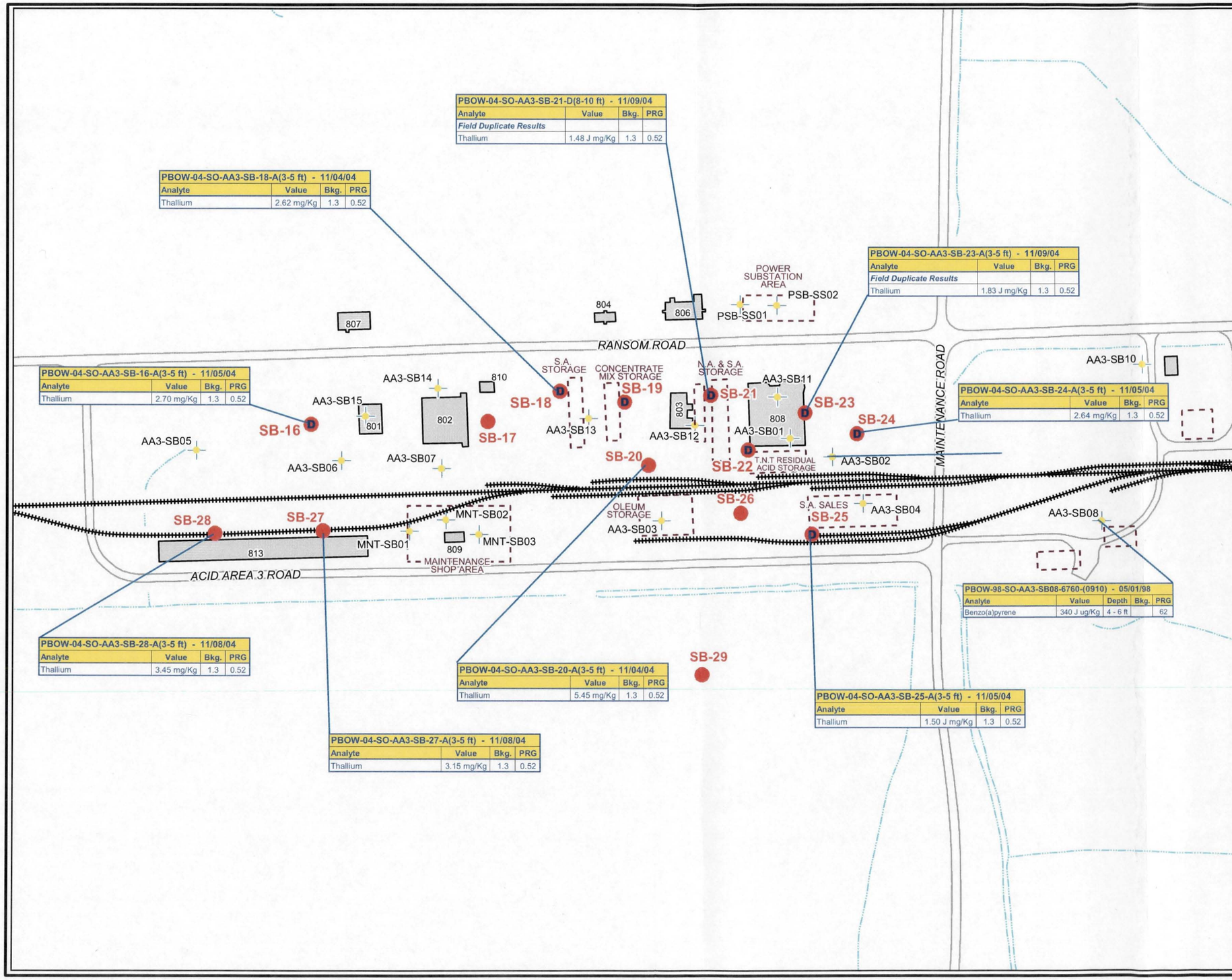
JACOBS

Distribution of Contaminants Exceeding PRG's in Surface Soil — Acid Area 3

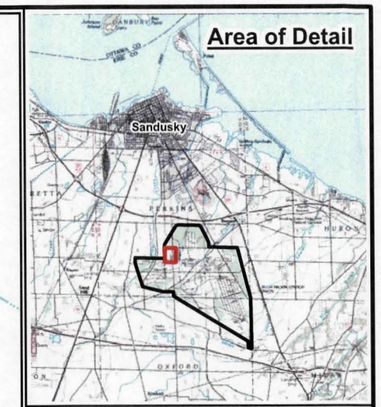
Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA3_Surface_Soil.mxd

Figure 4-3



Area of Detail



Legend

- 1998 SI Soil Borings
- 2004 Soil Borings to 10 ft bgs
- 2004 Soil Borings to 5 ft bgs

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

N

0 50 100 200 Feet

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

JACOBS

Distribution of Contaminants Exceeding PRG's in Subsurface Soil — Acid Area 3

Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA3_SubSurface_Soil.mxd

Figure 4-4

Acid Area 2 Peizometer Hydrographs

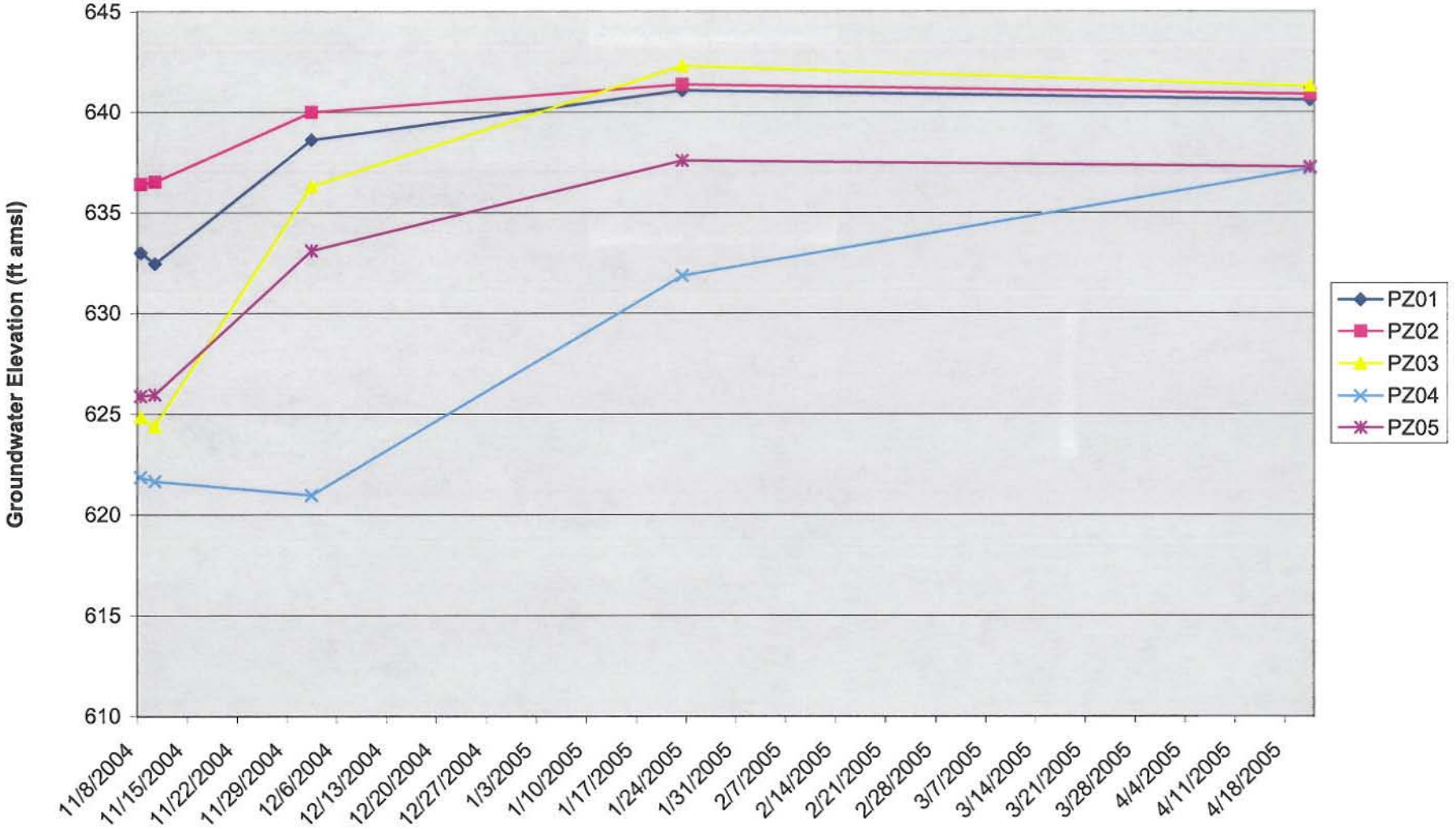


Figure 5-1

Acid Area 3 Peizometer Hydrographs

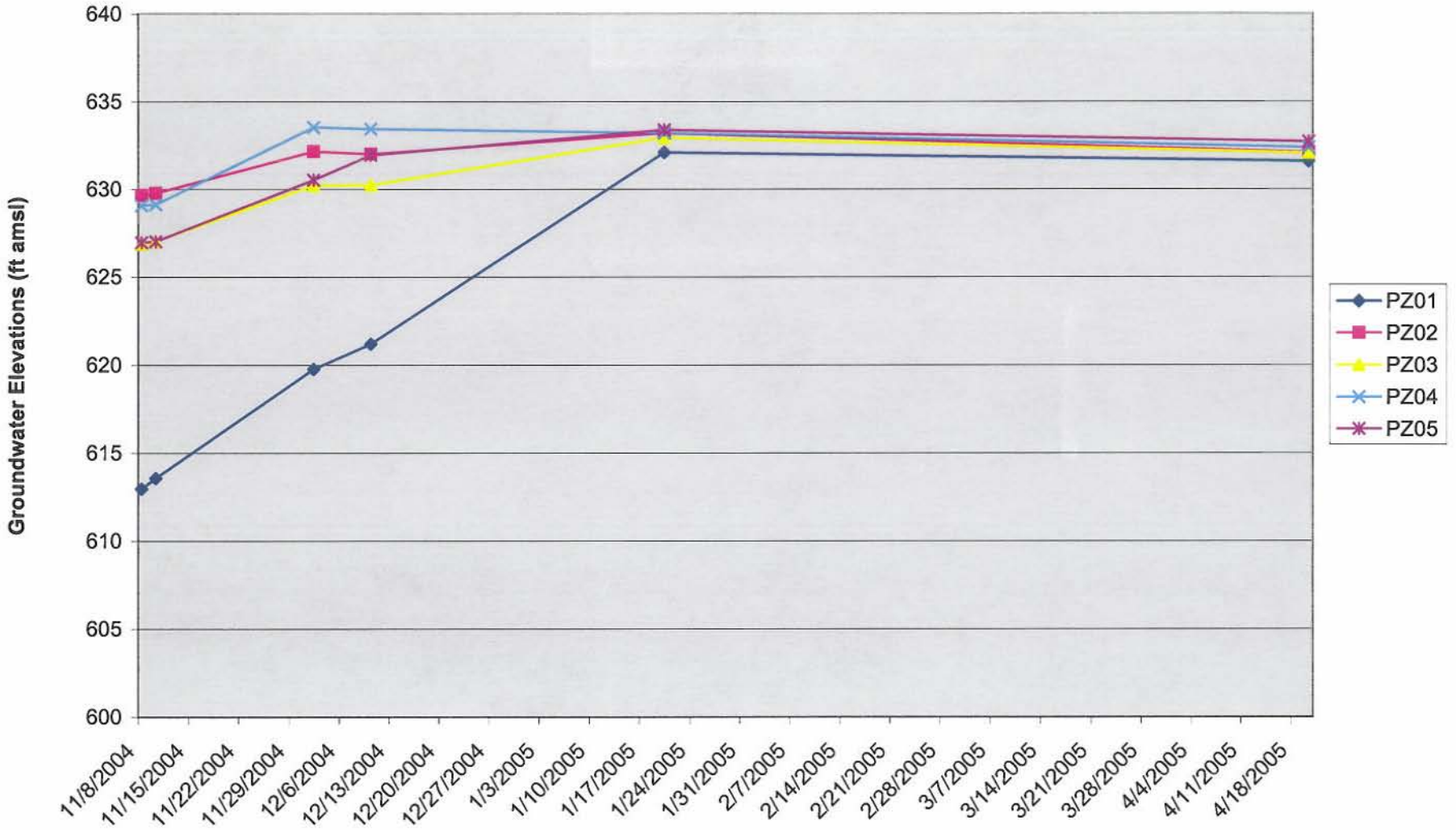
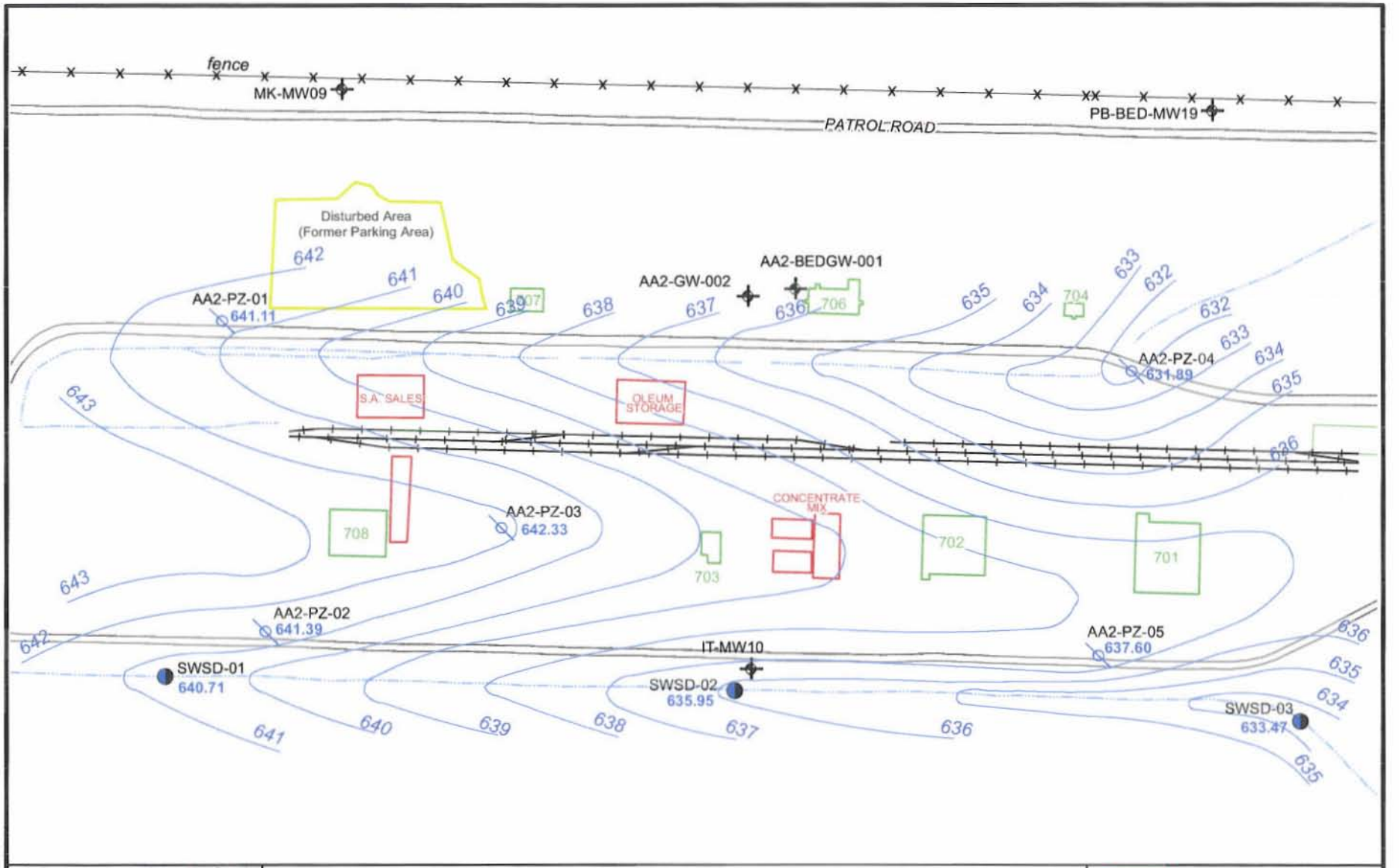


Figure 5-2



Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- 640 Groundwater Elevation (feet above mean sea level)
- Monitoring Wells
- Piezometers
- Surface Water Sampling Locations

100 50 0 100
Feet

N

Notes:
Data mapped to Ohio State Plane North NAD83, map units are feet.

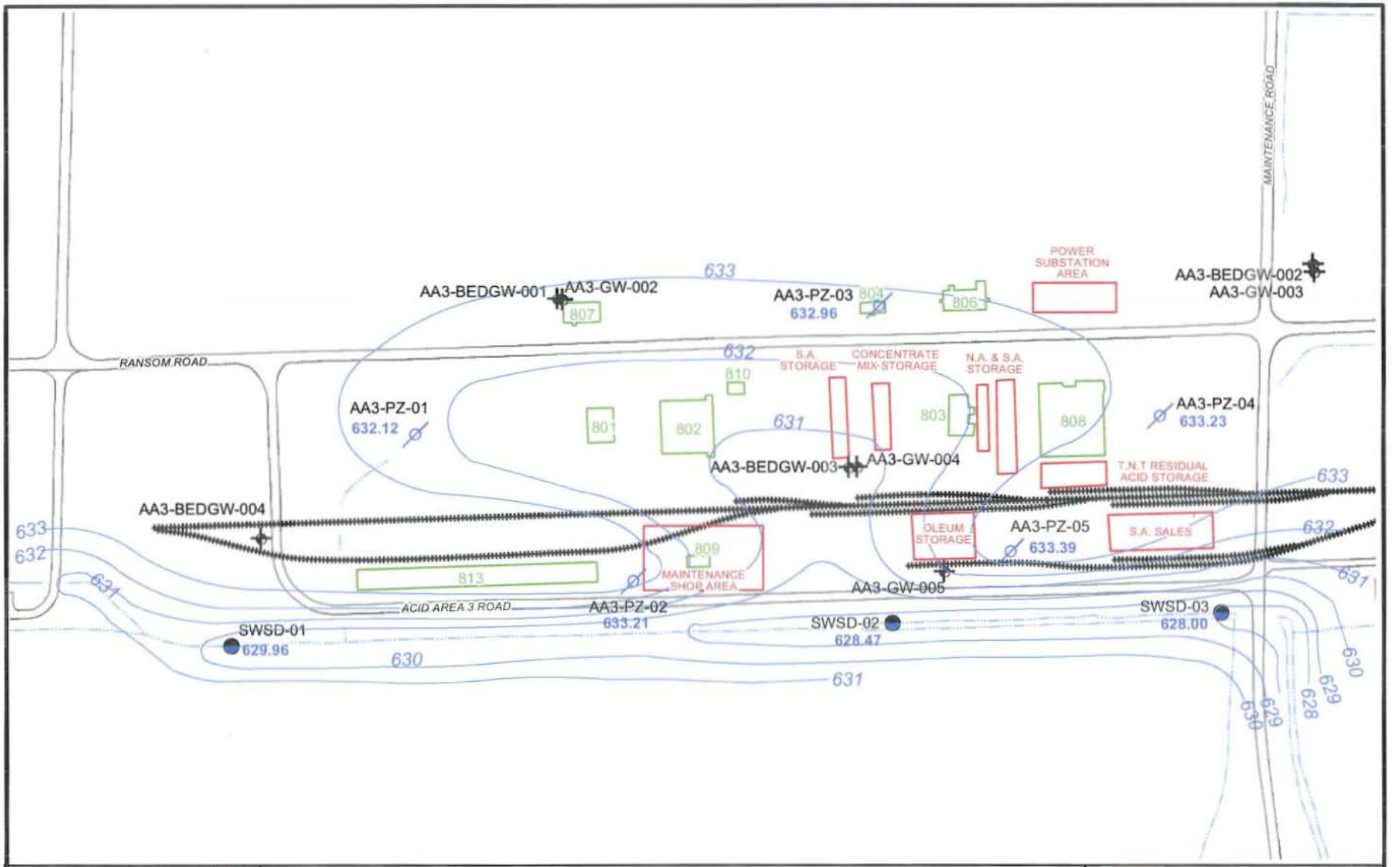
JACOBS

Shallow Groundwater Elevation Contour Map — Acid Area 2 (January 2005)

Plum Brook Ordnance Works
Sandusky, Ohio

08/07/05 NZ Y:/GIS/PlumBrook/Projects/AA2_3_Draft_RI/ArcGIS/AA2_GW_Shallow_Piezo.mxd

Figure 5-3



Area of Detail

Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- 640 Groundwater Elevation (feet above mean sea level)
- Monitoring Wells
- Piezometers
- Surface Water Sampling Locations

100 50 0 100
Feet

N

Notes:
Data mapped to Ohio State Plane North NAD83, map units are feet.

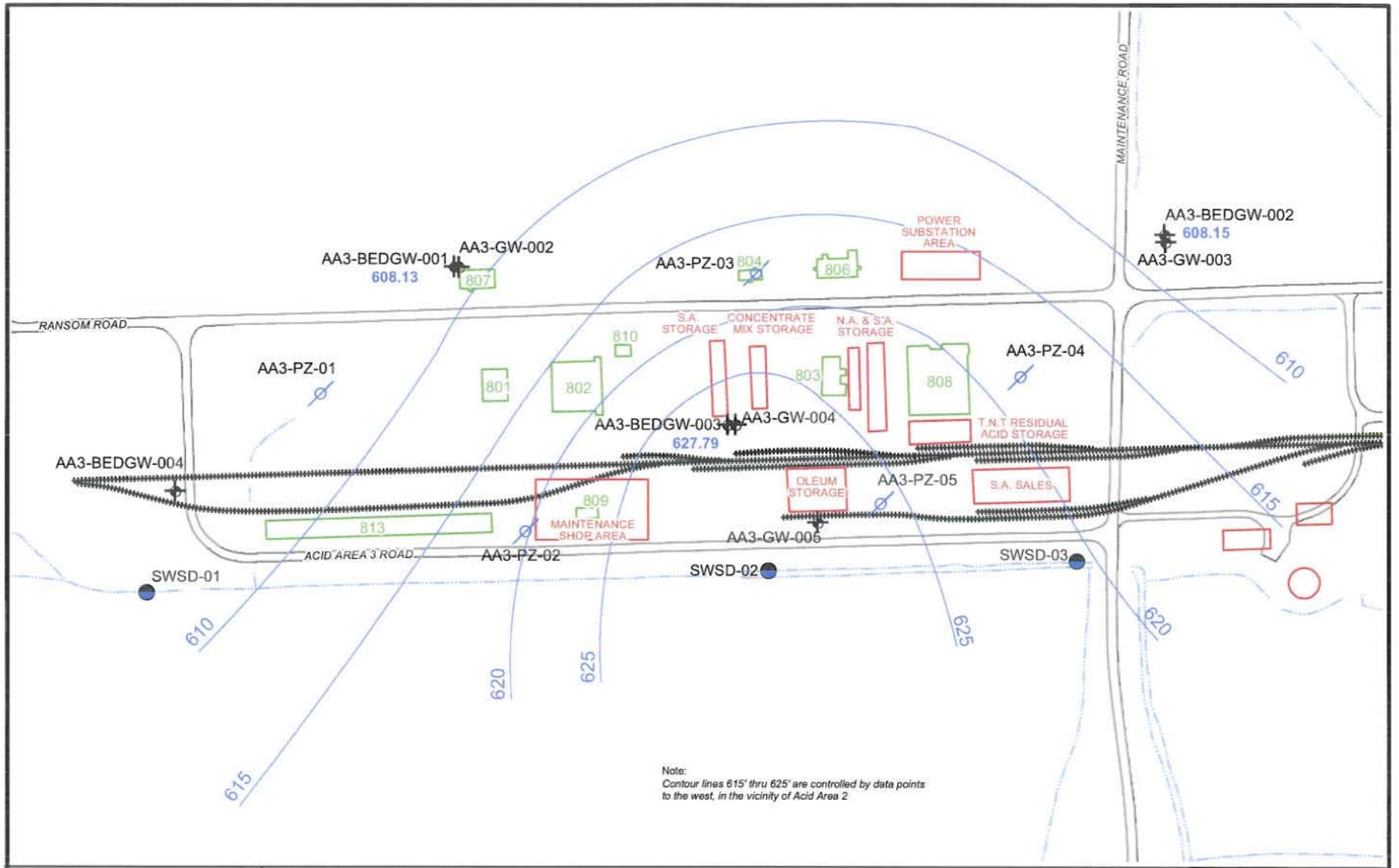
JACOBS

Shallow Groundwater Elevation Contour Map — Acid Area 3 (January 2005)

Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/AA3_GW_Shallow_Piezo.mxd

Figure 5-4



Area of Detail

Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- 640 Groundwater Elevation (feet above mean sea level)
- Monitoring Wells
- Piezometers
- Surface Water Sampling Locations

100 50 0 100
Feet

N

Notes:
Data mapped to Ohio State Plane North NAD83, map units are feet.

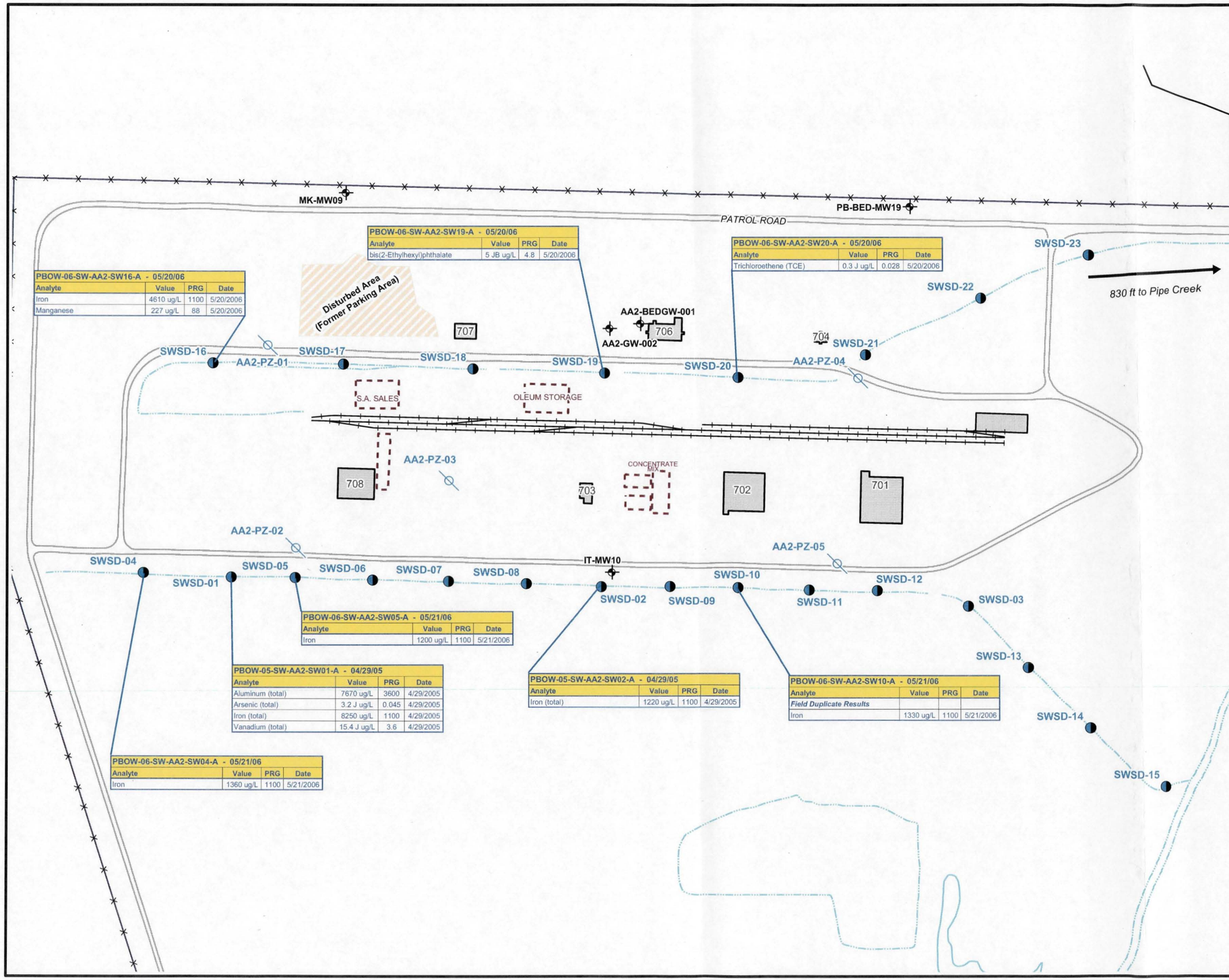
JACOBS

Bedrock Groundwater Elevation Contour Map — Acid Area 3 (January 2005)

Plum Brook Ordnance Works
Sandusky, Ohio

08/08/06 NZ D:/GIS/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/AA3_GW_Bedrock.mxd

Figure 5-5



PBOW-06-SW-AA2-SW16-A - 05/20/06

Analyte	Value	PRG	Date
Iron	4610 ug/L	1100	5/20/2006
Manganese	227 ug/L	88	5/20/2006

PBOW-06-SW-AA2-SW19-A - 05/20/06

Analyte	Value	PRG	Date
bis(2-Ethylhexyl)phthalate	5 JB ug/L	4.8	5/20/2006

PBOW-06-SW-AA2-SW20-A - 05/20/06

Analyte	Value	PRG	Date
Trichloroethene (TCE)	0.3 J ug/L	0.028	5/20/2006

PBOW-06-SW-AA2-SW05-A - 05/21/06

Analyte	Value	PRG	Date
Iron	1200 ug/L	1100	5/21/2006

PBOW-05-SW-AA2-SW01-A - 04/29/05

Analyte	Value	PRG	Date
Aluminum (total)	7670 ug/L	3600	4/29/2005
Arsenic (total)	3.2 J ug/L	0.045	4/29/2005
Iron (total)	8250 ug/L	1100	4/29/2005
Vanadium (total)	15.4 J ug/L	3.6	4/29/2005

PBOW-05-SW-AA2-SW02-A - 04/29/05

Analyte	Value	PRG	Date
Iron (total)	1220 ug/L	1100	4/29/2005

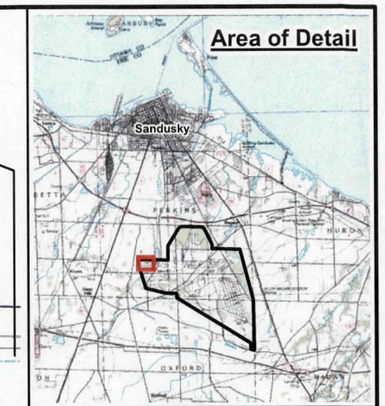
PBOW-06-SW-AA2-SW10-A - 05/21/06

Analyte	Value	PRG	Date
Field Duplicate Results			
Iron	1330 ug/L	1100	5/21/2006

PBOW-06-SW-AA2-SW04-A - 05/21/06

Analyte	Value	PRG	Date
Iron	1360 ug/L	1100	5/21/2006

Area of Detail



Legend

- Surface Water or Sediment Sampling Locations
- Monitoring Wells
- Piezometers

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

0 50 100 200 Feet

N

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

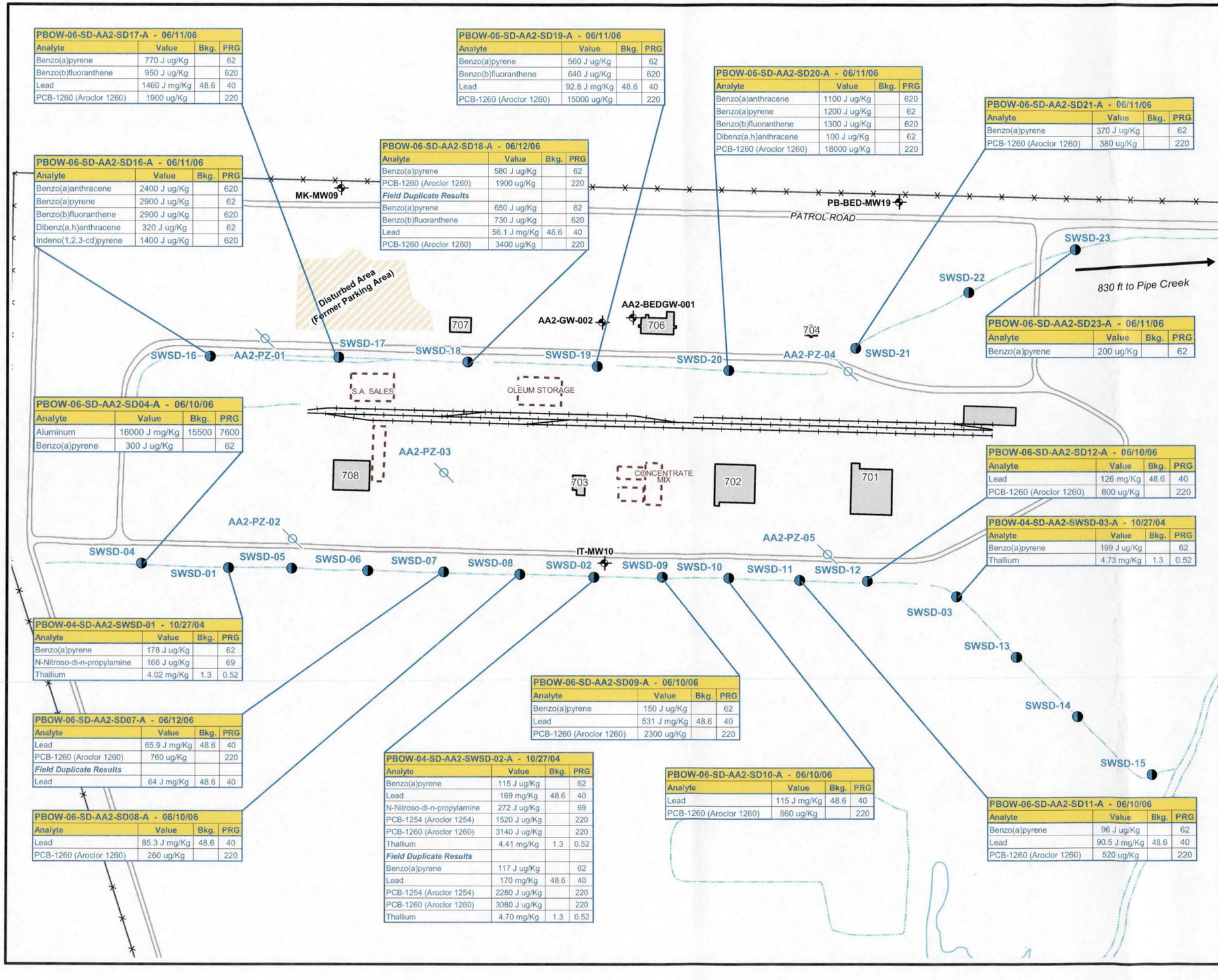
JACOBS

Distribution of Contaminants Exceeding PRG's in Surface Water — Acid Area 2

Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA2_Surface_Water.mxd

Figure 6-1



PBOW-06-SD-AA2-SD17-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	770 J ug/Kg		62
Benzo(b)fluoranthene	950 J ug/Kg		620
Lead	1460 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	1900 ug/Kg		220

PBOW-06-SD-AA2-SD19-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	560 J ug/Kg		62
Benzo(b)fluoranthene	640 J ug/Kg		620
Lead	92.8 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	15000 ug/Kg		220

PBOW-06-SD-AA2-SD20-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	1100 J ug/Kg		620
Benzo(a)pyrene	1200 J ug/Kg		62
Benzo(b)fluoranthene	1300 J ug/Kg		620
Dibenz(a,h)anthracene	100 J ug/Kg		62
PCB-1260 (Aroclor 1260)	18000 ug/Kg		220

PBOW-06-SD-AA2-SD21-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	370 J ug/Kg		62
PCB-1260 (Aroclor 1260)	380 ug/Kg		220

PBOW-06-SD-AA2-SD16-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)anthracene	2400 J ug/Kg		620
Benzo(a)pyrene	2900 J ug/Kg		62
Benzo(b)fluoranthene	2900 J ug/Kg		620
Dibenz(a,h)anthracene	320 J ug/Kg		62
Indeno(1,2,3-cd)pyrene	1400 J ug/Kg		620

PBOW-06-SD-AA2-SD18-A - 06/12/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	580 J ug/Kg		62
PCB-1260 (Aroclor 1260)	1900 ug/Kg		220
Field Duplicate Results			
Benzo(a)pyrene	650 J ug/Kg		62
Benzo(b)fluoranthene	730 J ug/Kg		620
Lead	56.1 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	3400 ug/Kg		220

PBOW-06-SD-AA2-SD23-A - 06/11/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	200 ug/Kg		62

PBOW-06-SD-AA2-SD04-A - 06/10/06

Analyte	Value	Bkg.	PRG
Aluminum	16000 J mg/Kg	15500	7600
Benzo(a)pyrene	300 J ug/Kg		62

PBOW-06-SD-AA2-SD12-A - 06/10/06

Analyte	Value	Bkg.	PRG
Lead	126 mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	800 ug/Kg		220

PBOW-04-SD-AA2-SWSD-03-A - 10/27/04

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	199 J ug/Kg		62
Thallium	4.73 mg/Kg	1.3	0.52

PBOW-04-SD-AA2-SWSD-01 - 10/27/04

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	178 J ug/Kg		62
N-Nitroso-di-n-propylamine	166 J ug/Kg		69
Thallium	4.02 mg/Kg	1.3	0.52

PBOW-06-SD-AA2-SD09-A - 06/10/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	150 J ug/Kg		62
Lead	531 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	2300 ug/Kg		220

PBOW-06-SD-AA2-SD07-A - 06/12/06

Analyte	Value	Bkg.	PRG
Lead	65.9 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	760 ug/Kg		220
Field Duplicate Results			
Lead	64 J mg/Kg	48.6	40

PBOW-04-SD-AA2-SWSD-02-A - 10/27/04

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	115 J ug/Kg		62
Lead	169 mg/Kg	48.6	40
N-Nitroso-di-n-propylamine	272 J ug/Kg		69
PCB-1254 (Aroclor 1254)	1520 J ug/Kg		220
PCB-1260 (Aroclor 1260)	3140 J ug/Kg		220
Thallium	4.41 mg/Kg	1.3	0.52
Field Duplicate Results			
Benzo(a)pyrene	117 J ug/Kg		62
Lead	170 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	2280 J ug/Kg		220
PCB-1260 (Aroclor 1260)	3080 J ug/Kg		220
Thallium	4.70 mg/Kg	1.3	0.52

PBOW-06-SD-AA2-SD10-A - 06/10/06

Analyte	Value	Bkg.	PRG
Lead	115 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	960 ug/Kg		220

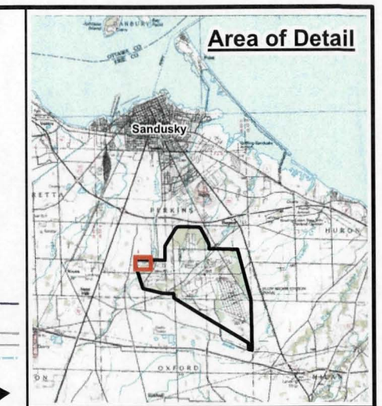
PBOW-06-SD-AA2-SD08-A - 06/10/06

Analyte	Value	Bkg.	PRG
Lead	85.3 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	260 ug/Kg		220

PBOW-06-SD-AA2-SD11-A - 06/10/06

Analyte	Value	Bkg.	PRG
Benzo(a)pyrene	96 J ug/Kg		62
Lead	90.5 J mg/Kg	48.6	40
PCB-1260 (Aroclor 1260)	520 ug/Kg		220

Area of Detail



Legend

- Sediment Sampling Locations
- Monitoring Wells
- Piezometers

Note:
bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway

0 50 100 200 Feet

N

Sources
Data mapped to Ohio State Plane North NAD83, map grid units in feet.

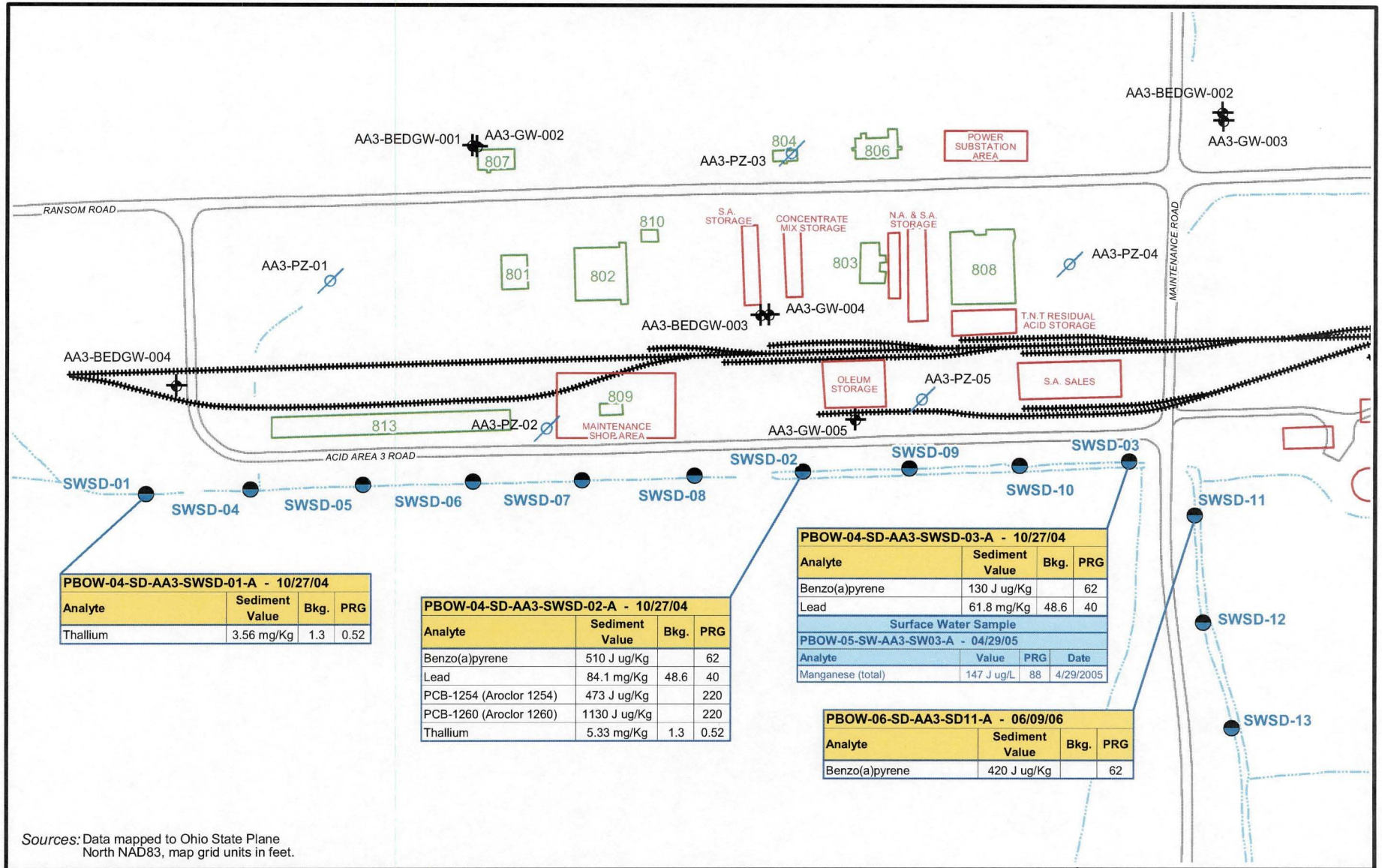
JACOBS

Distribution of Contaminants Exceeding PRG's in Sediment — Acid Area 2

Plum Brook Ordnance Works
Sandusky, Ohio

02/06/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA2_Sediment.mxd

Figure 6-2



PBOW-04-SD-AA3-SWSD-01-A - 10/27/04

Analyte	Sediment Value	Bkg.	PRG
Thallium	3.56 mg/Kg	1.3	0.52

PBOW-04-SD-AA3-SWSD-02-A - 10/27/04

Analyte	Sediment Value	Bkg.	PRG
Benzo(a)pyrene	510 J ug/Kg		62
Lead	84.1 mg/Kg	48.6	40
PCB-1254 (Aroclor 1254)	473 J ug/Kg		220
PCB-1260 (Aroclor 1260)	1130 J ug/Kg		220
Thallium	5.33 mg/Kg	1.3	0.52

PBOW-04-SD-AA3-SWSD-03-A - 10/27/04

Analyte	Sediment Value	Bkg.	PRG
Benzo(a)pyrene	130 J ug/Kg		62
Lead	61.8 mg/Kg	48.6	40

Surface Water Sample
PBOW-05-SW-AA3-SW03-A - 04/29/05

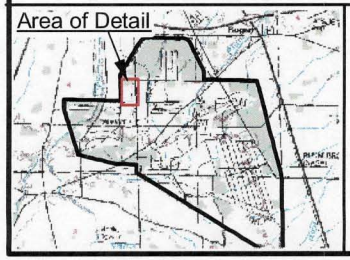
Analyte	Value	PRG	Date
Manganese (total)	147 J ug/L	88	4/29/2005

PBOW-06-SD-AA3-SD11-A - 06/09/06

Analyte	Sediment Value	Bkg.	PRG
Benzo(a)pyrene	420 J ug/Kg		62

Sources: Data mapped to Ohio State Plane North NAD83, map grid units in feet.

Area of Detail



Legend

- Storage Tank Areas from Engineering Drawings
- Creek, Ditch, Conveyance
- Buildings
- Railway
- Monitoring Wells
- Piezometers
- Surface Water and Sediment Sampling Locations

Note: bgs = below ground surface
Bkg. = Background Sample (values are provided in units consistent with the reported sample values)
PRG = Preliminary Remediation Goal (values are provided in units consistent with the reported sample values)

100 50 0 100
Feet

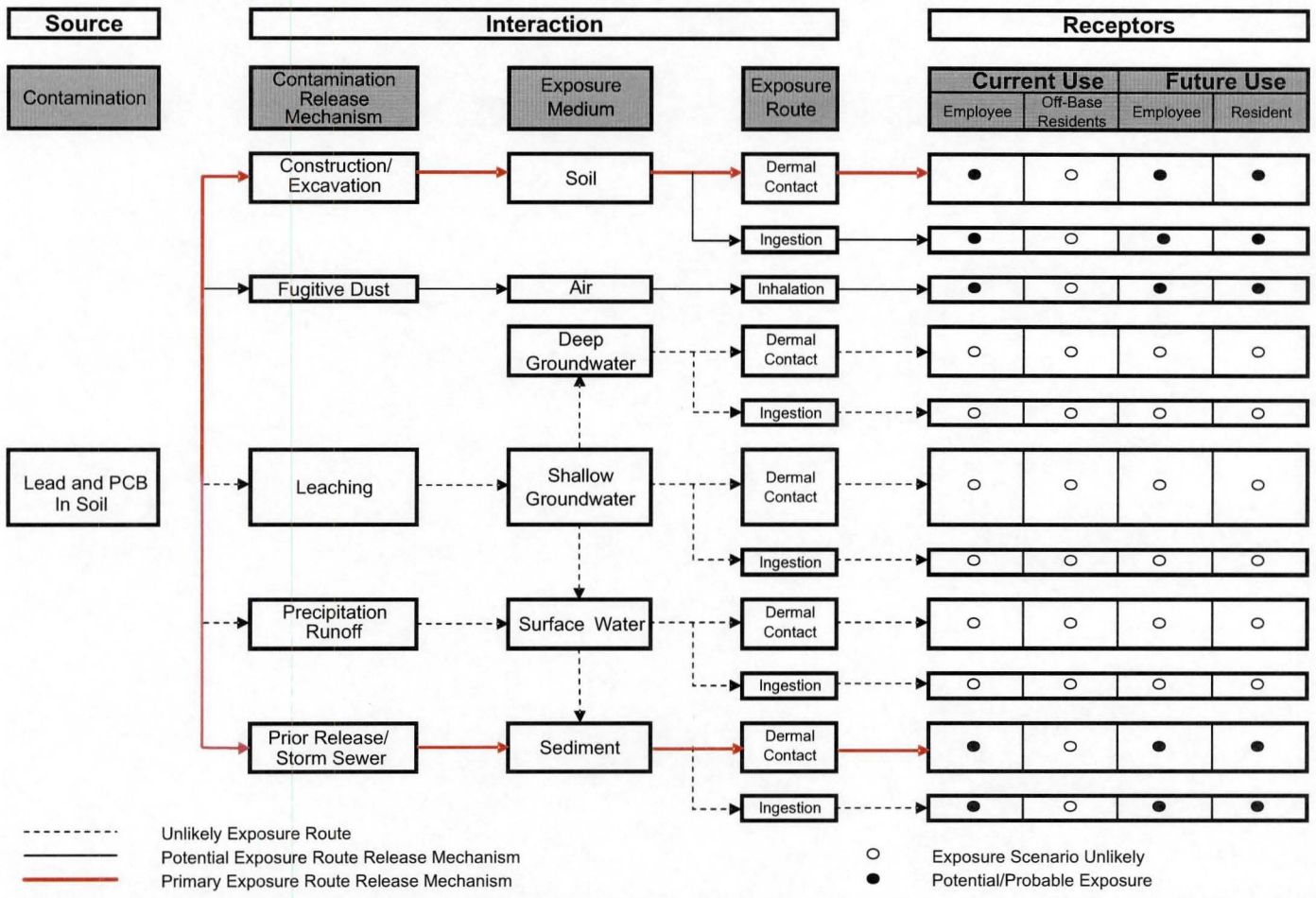
JACOBS

Distribution of Contaminants Exceeding PRG's in Sediment and Surface Water — Acid Area 3

Plum Brook Ordnance Works
Sandusky, Ohio

02/20/07 LKD S:/GIS/Projects/Plumbrook/Projects/Final_AA2_3_RI/ArcGIS/Spider Diagrams/AA3_Sediment.mxd

Figure 6-3



JACOBS

Release Profiles and Potential Exposure Scenarios

8/11/06 DMF
Fig7-1 Release lead.cdr

Figure 7-1

TABLES

Table 1-1
Soil Samples Collected at AA2 - 1998 SI

Soil Sample Identification	Soil Boring Identification[a]	Date of Collection	Sample Depth (feet bgs)[b]
PBOW-98-AA2-SB01-6310-(0.5-1.5)	AA2-SB01	4/27/98	0-1
PBOW-98-AA2-SB01-6320-(6.0-8.0)			6.0-8.0
PBOW-98-AA2-SB02-6330-(0.5-1.5)	AA2-SB02	4/28/98	0-1
PBOW-98-AA2-SB02-6340-(2.0-4.0)			2.0-4.0
PBOW-98-AA2-SB03-6350-(0.0-1.0)	AA2-SB03	4/27/98	0-1
PBOW-98-AA2-SB03-6360-(4.0-6.0)			4.0-6.0
PBOW-98-AA2-SB04-6370-(0.5-1.5)	AA2-SB04	4/27/98	0-1
PBOW-98-AA2-SB04-6380-(8.0-10)			8.0-10.0
PBOW-98-AA2-SB05-6390-(0.5-1.5)	AA2-SB05	4/28/98	0-1
PBOW-98-AA2-SB05-6400-(4.0-6.0)			4.0-6.0
PBOW-98-AA2-SB06-6410-(0.5-1.5)	AA2-SB06	4/28/98	0-1
PBOW-98-AA2-SB06-6420-(4.0-5.5)			4.0-5.5
PBOW-98-AA2-SB07-6430-(0.5-1.5)	AA2-SB07	4/28/98	0-1
PBOW-98-AA2-SB07-6440-(4.0-6.0)			4.0-6.0
PBOW-98-AA2-SB08-6450-(0.5-1.5)	AA2-SB08	4/28/98	0-1
PBOW-98-AA2-SB08-6460-(6.0-8.0)			6.0-8.0
PBOW-98-AA2-SB09-6470-(0.5-1.5)	AA2-SB09	4/28/98	0-1
PBOW-98-AA2-SB09-6480-(4.0-6.0)			4.0-6.0
PBOW-98-AA2-SB10-6490-(0.5-1.5)	AA2-SB10	4/28/98	0-1
PBOW-98-AA2-SB10-6500-(8.0-10)			8.0-10.0
PBOW-98-AA2-SB11-6510-(0.5-1.5)	AA2-SB11	4/28/98	0-1
PBOW-98-AA2-SB11-6520-(2.0-4.0)			2.0-4.0
PBOW-98-AA2-SB12-6530-(0.5-1.5)	AA2-SB12	4/28/98	0-1
PBOW-98-AA2-SB12-6540-(6.0-8.0)			6.0-8.0
PBOW-98-AA2-SB13-6550-(0.5-1.5)	AA2-SB13	4/27/98	0-1
PBOW-98-AA2-SB13-6560-(2.0-4.0)			2.0-4.0
PBOW-98-AA2-SB14-6570-(0.5-1.5)	AA2-SB14	4/27/98	0-1
PBOW-98-AA2-SB14-6580-(4.0-6.0)			4.0-6.0
PBOW-98-AA2-SB15-6590-(0.5-1.5)	AA2-SB15	4/27/98	0-1
PBOW-98-AA2-SB15-6600-(2.0-4.0)			2.0-4.0

a, b Table taken from 1998 SI, Table 2-2

Table 1-2
Soil Samples Collected at AA3 - 1998 SI

Soil Sample Identification	Soil Boring Identification[a]	Date of Collection	Sample Depth (feet bgs)[b]
Acid Area No. 3			
PBOW-98-AA3-SB01-6610-(0.5-1.5)	AA3-SB01	5/3/98	0-1
PBOW-98-AA3-SB01-6620-(6.0-8.0)			6.0-8.0
PBOW-98-AA3-SB02-6630-(0.5-1.5)	AA3-SB02	5/1/98	0-1
PBOW-98-AA3-SB02-6640-(6.0-8.0)			6.0-8.0
PBOW-98-AA3-SB03-6650-(0.5-1.5)	AA3-SB03	5/1/98	0-1
PBOW-98-AA3-SB03-6660-(6.0-8.0)			6.0-8.0
PBOW-98-AA3-SB04-6670-(0.5-1.5)	AA3-SB04	5/1/98	0-1
PBOW-98-AA3-SB04-6680-(8.0-10)			8.0-10.0
PBOW-98-AA3-SB05-6690-(0.5-1.5)	AA3-SB05	5/1/98	0-1
PBOW-98-AA3-SB05-6700-(8.0-10)			8.0-10.0
PBOW-98-AA3-SB06-6710-(0.5-1.5)	AA3-SB06	5/1/98	0-1
PBOW-98-AA3-SB06-6720-(4.0-6.0)			4.0-6.0
PBOW-98-AA3-SB07-6730-(0.5-1.5)	AA3-SB07	5/1/98	0-1
PBOW-98-AA3-SB07-6740-(2.0-4.0)			2.0-4.0
PBOW-98-AA3-SB08-6750-(0.5-1.5)	AA3-SB08	5/1/98	0-1
PBOW-98-AA3-SB08--6760-(4.0-6.0)			4.0-6.0
PBOW-98-AA3-SB09-6770-(0.5-1.5)	AA3-SB09	5/2/98	0-1
PBOW-98-AA3-SB09-6780-(8.0-10)			8.0-10.0
PBOW-98-AA3-SB10-6790-()0.5-1.5	AA3-SB10	5/2/98	0-1
PBOW-98-AA3-SB10-6800-(6.0-8.0)			6.0-8.0
PBOW-98-AA3-SB11-6810-(0.5-1.5)	AA3-SB11	4/30/98	0-1
PBOW-98-AA3-SB11-6820-(2.0-4.0)			2.0-4.0
PBOW-98-AA3-SB12-6830-(0.5-1.5)	AA3-SB12	5/1/98	0-1
PBOW-98-AA3-SB12-6840-(2.0-4.0)			2.0-4.0
PBOW-98-AA3-SB13-6850-(0.5-1.5)	AA3-SB13	5/1/98	0-1
PBOW-98-AA3-SB13-6860-(8.0-10)			8.0-10.0
PBOW-98-AA3-SB14-6870-(0.5-1.5)	AA3-SB14	5/1/98	0-1
PBOW-98-AA3-SB14-6880-(2.0-4.0)			2.0-4.0
PBOW-98-AA3-SB15-6890-(0.5-1.5)	AA3-SB15	5/1/98	0-1
PBOW-98-AA3-SB15-6900-(6.0-8.0)			6.0-8.0
Maintenance Shop Area			
PBOW-98-MNT-SB01-6910-(0.5-1.5)	MNT-SB01	5/3/98	0-1
PBOW-98-MNT-SB01-6920-(4.0-6.0)			4.0-6.0
PBOW-98-MNT-SB02-6930-(0.5-1.5)	MNT-SB02	5/2/98	0-1
PBOW-98-MNT-SB02-6940-(2.0-4.0)			2.0-4.0
PBOW-98-MNT-SB03-6950-(0.5-1.5)	MNT-SB03	5/2/98	0-1
PBOW-98-MNT-SB03-6960-(6.0-8.0)			6.0-8.0
Power Substation			
PBOW-98-PSB-SS01-6970-(0.0-1.0)	PSB-SS01	5/3/98	0-1
PBOW-98-PSB-SS02-6980-(0.0-1.0)	PSB-SS02	5/2/98	0-1

a, b Table taken from 1998 SI, Table 2-3

TABLE 2-1
PRECIPITATION DATA FOR SANDUSKY, OHIO
1971 – 2001

Month	Mean (inches)	Extreme High (inches)	Year of Extreme High	Extreme Low (inches)	Year of Extreme Low	Mean Snowfall (inches)
January	1.87	6.58	1937	0.19	1961	8.8
February	1.72	4.53	1950	0.02	1987	6.0
March	2.51	8.69	1913	0.28	1910	3.0
April	3.03	7.19	1961	0.35	1915	0.6
May	3.42	9.04	1943	0.64	1934	0.0
June	4.19	12.51	1937	0.68	1988	0.0
July	3.34	12.60	1966	0.26	1916	0.0
August	3.65	9.93	1975	0.40	1996	0.0
September	3.16	7.72	1950	0.73	1928	0.0
October	2.30	6.22	1917	0.03	1963	0.0
November	2.73	6.53	1982	0.09	1904	0.3
December	2.54	6.44	1990	0.65	1943	4.6
Annual	34.46	50.50	1950	16.85	1901	23.3

Source: Midwestern Regional Climate Center, 2004

TABLE 2-2
TEMPERATURE DATA FOR SANDUSKY, OHIO
1971 – 2001

Month	Average Monthly Temperature			Mean Extreme High (°F)	Year of Extreme High	Mean Extreme Low (°F)	Year of Extreme Low
	Maximum (°F)	Minimum (°F)	Mean (°F)				
January	32.2	18.9	25.6	39.1	1932	11.9	1977
February	35.0	21.0	28.0	37.1	1954	14.9	1978
March	44.3	29.5	36.9	49.2	1945	26.7	1960
April	55.9	39.6	47.8	56.5	1955	40.4	1907
May	67.4	51.3	59.4	66.5	1962	52.1	1917
June	77.2	61.2	69.2	75.0	1934	63.6	1903
July	81.8	65.7	73.8	79.1	1949	70.2	2000
August	79.9	64.0	72.0	77.8	1947	67.1	1927
September	73.4	56.9	65.2	70.6	1931	58.4	1918
October	61.8	45.7	53.8	62.0	1900	45.5	1925
November	49.1	36.0	42.6	49.6	2001	34.9	1976
December	37.2	25.1	31.2	39.7	1982	17.2	1989
Annual	57.9	42.9	50.5	54.2	1921	45.6	1982

Source: Midwestern Regional Climate Center, 2004

Table 3-1
Soil Samples Collected at AA2 and AA3 - 2004 RI

Acid Area 2

Location	Sample Depths (ft bgs)		
	0.5 - 1.5	3.0 - 5.0	8.0 - 10.0
AA2-SB-16	x	x	x
AA2-SB-17	x	x	x
AA2-SB-18	x	x	x
AA2-SB-19	x	x	
AA2-SB-20	x	x	x
AA2-SB-21	x	x	
AA2-SB-22	x	x	
AA2-SB-23	x	x	x
AA2-SB-24	x	x	
AA2-SB-25	x	x	
AA2-SB-26	x	x	x
AA2-SB-27	x	x	x
AA2-SB-28	x	x	

Acid Area 3

Location	Sample Depths (ft bgs)		
	0.5 - 1.5	3.0 - 5.0	8.0 - 10.0
AA3-SB-16	x	x	x
AA3-SB-17	x	x	
AA3-SB-18	x	x	x
AA3-SB-19	x	x	x
AA3-SB-20	x	x	
AA3-SB-21	x	x	x
AA3-SB-22	x	x	x
AA3-SB-23	x	x	x
AA3-SB-24	x	x	x
AA3-SB-25	x	x	x
AA3-SB-26	x	x	
AA3-SB-27	x	x	
AA3-SB-28	x	x	
AA3-SB-29	x	x	

Table 4-1 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB016 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB017 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 (field dup) 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB019 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB020 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB021 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB022 10/29/2004 0.5-1.5 ft. Result	VQ
Volatile Organic Compounds																				
2-Butanone (Methyl ethyl ketone)	SW8260B	32.2	2200000	ug/Kg	7.8	J	10.9	J	20.9		32.2		1.41	U	9.06	J	5.92	J	4.39	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260B	4.83	530000	ug/Kg	1.05	U	1.21	U	1.07	U	1.24	U	1.22	U	0.997	U	0.963	U	1.01	U
Acetone	SW8260B	226	1400000	ug/Kg	115	B	128	B	150	B	226	B	2.06	U	160	B	1.63	U	1.7	U
Benzene	SW8260B	6.52	640	ug/Kg	2.14	J	1.08	U	0.952	U	1.1	U	1.08	U	0.884	U	2.45	J	0.892	U
Carbon Disulfide	SW8260B	29.1	36000	ug/Kg	6.78		1.76	U	1.56	U	1.79	U	1.76	U	5.13		17.1		1.46	U
Cyclohexane	SW8260B	11.6	280000	ug/Kg	6.21		2.03	U	1.8	U	2.07	U	2.04	U	2.06	J	9.04		1.68	U
Ethylbenzene	SW8260B	2.9	190000	ug/Kg	1.46	J	0.819	U	0.725	U	0.835	U	0.822	U	0.673	U	1.8	J	0.679	U
Methylcyclohexane	SW8260B	12	260000	ug/Kg	7.25		0.947	U	0.838	U	0.966	U	0.95	U	2.15	J	9.05		0.785	U
Toluene	SW8260B	13.6	66000	ug/Kg	5.36		0.966	U	0.854	U	0.984	U	0.969	U	0.793	U	7.55	B	0.8	U
Xylenes, Total	SW8260B	7.8	27000	ug/Kg	4.87	J	1.38	U	1.22	U	1.4	U	1.38	U	1.13	U	6.36		1.14	U
Semivolatile Organic Compounds																				
2,4-Dinitrotoluene	SW8270C	245	12000	ug/Kg	105	U	120	U	113	U	103	U	118	U	121	U	113	U	118	U
2-Methylnaphthalene	SW8270C	646		ug/Kg	26	U	29.9	U	28	U	25.6	U	29.3	U	30.2	U	62.3	J	29.3	U
Acenaphthene	SW8270C	805	370000	ug/Kg	11.5	U	13.2	U	12.3	U	11.3	U	12.9	U	13.3	U	12.4	U	12.9	U
Acenaphthylene	SW8270C	265		ug/Kg	109	J	41.8	U	39.2	U	35.8	U	41	U	42.2	U	60.3	J	40.9	U
Anthracene	SW8270C	2070	2200000	ug/Kg	104	J	30.5	U	28.5	U	26.1	U	29.9	U	30.7	U	66.7	J	29.8	U
Benzaldehyde	SW8270C	95.9	610000	ug/Kg											95.9	J				
Benzo(a)anthracene	SW8270C	4020	620	ug/Kg	231	J	22	U	20.6	U	18.8	U	21.6	U	80.3	J	127	J	21.5	U
Benzo(a)pyrene	SW8270C	3580	62	ug/Kg	**200**	**J**	29.8	U	27.9	U	25.5	U	29.2	U	**72.6**	**J**	**106**	**J**	29.2	U
Benzo(b)fluoranthene	SW8270C	3110	620	ug/Kg	194	J	28.4	U	26.6	U	24.3	U	27.8	U	86.7	J	110	J	27.8	U
Benzo(g,h,i)perylene	SW8270C	1850		ug/Kg	279	J	27	U	25.3	U	23.1	U	26.5	U	80.1	J	141	J	26.5	U
Benzo(k)fluoranthene	SW8270C	2620	6200	ug/Kg	219	J	32.2	U	30.2	U	27.6	U	31.6	U	58.6	J	77.6	J	31.5	U
Biphenyl (Diphenyl)	SW8270C	72.1	300000	ug/Kg																
Carbazole	SW8270C	877	24000	ug/Kg	43.3	U	49.7	U	46.6	U	42.6	U	48.7	U	50.1	U	46.9	U	48.7	U
Chrysene	SW8270C	4310	62000	ug/Kg	250	J	17.4	U	16.3	U	14.9	U	17.1	U	96.6	J	123	J	17	U
Di-n-butylphthalate	SW8270C	9230	610000	ug/Kg	403	U	1210		434	U	396	U	454	U	467	U	436	U	615	J
Dibenz(a,h)anthracene	SW8270C	1280	62	ug/Kg	**91.4**	**J**	22.7	U	21.2	U	19.4	U	22.2	U	22.9	U	**62.6**	**J**	22.2	U
Dibenzofuran	SW8270C	518	15000	ug/Kg	242	U	278	U	261	U	238	U	273	U	281	U	262	U	272	U
Fluoranthene	SW8270C	8550	230000	ug/Kg	365		66.7	J	17.7	U	16.2	U	18.5	U	162	J	198	J	18.5	U
Fluorene	SW8270C	1000	270000	ug/Kg	9.65	U	11.1	U	10.4	U	9.49	U	10.9	U	11.2	U	10.5	U	10.9	U
Indeno(1,2,3-cd)pyrene	SW8270C	4540	620	ug/Kg	340		28.4	U	26.6	U	24.3	U	27.8	U	138	J	175	J	27.8	U
Naphthalene	SW8270C	326	5600	ug/Kg	9.45	U	10.9	U	10.2	U	9.29	U	10.6	U	10.9	U	10.2	U	10.6	U
Phenanthrene	SW8270C	6660		ug/Kg	90.2	J	21.2	U	19.9	U	18.1	U	20.8	U	21.4	U	90.7	J	20.7	U
Pyrene	SW8270C	4450	230000	ug/Kg	287	J	16.4	U	15.3	U	14	U	16.1	U	127	J	167	J	16	U
Explosives																				

J = Estimated Value, U = Non-detection, R = Rejected, B = Found in Blank, N = Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-1 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB016 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB017 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 (field dup) 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB019 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB020 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB021 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB022 10/29/2004 0.5-1.5 ft. Result	VQ
2,6-Dinitrotoluene	SW8330	833	6100	ug/Kg	62.1	U	62.8	U	61.5	U	62.1	U	63.1	U	62.8	U	63.7	U	63.7	U
3-Nitrotoluene	SW8330	157	73000	ug/Kg	140	U	141	U	138	U	140	U	142	U	141	U	143	U	143	U
Nitrobenzene	SW8330	158	2000	ug/Kg	52.1	U	52.6	U	51.6	U	52.1	U	52.9	U	52.6	U	53.4	U	53.4	U
Polychlorinated Biphenyls (PCBs)																				
PCB-1254 (Aroclor 1254)	SW8082	16000	220	ug/Kg	**3330**	J	**764**	J	16.7	J	16	U	34.7	U	**16000**	J	32.7	J	220	J
PCB-1260 (Aroclor 1260)	SW8082	31400	220	ug/Kg	**7550**	J	**2210**	J	48.1	J	37	J	90.3	J	**31400**	J	65.6	J	**477**	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J = Estimated Value, U = Non-detection, R = Rejected, B = Found in Blank, N = Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-1 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB023 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB024 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB025 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB026 11/8/2004 0.5-1.5 ft. Result	VQ	AA2-SB027 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB028 11/1/2004 0.5-1.5 ft. Result	VQ
Volatile Organic Compounds																
2-Butanone (Methyl ethyl ketone)	SW8260B	32.2	2200000	ug/Kg	5.93	J	1.4	U	7.24	J	1.17	U	8.85	J	1.25	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260B	4.83	530000	ug/Kg	1.2	U	1.21	UJ	1.13	U	1.01	U	4.83	J	1.08	U
Acetone	SW8260B	226	1400000	ug/Kg	2.04	U	2.05	U	1.91	U	1.71	U	130	B	1.83	U
Benzene	SW8260B	6.52	640	ug/Kg	1.07	U	6.52		1	U	0.895	U	2.02	J	3.06	J
Carbon Disulfide	SW8260B	29.1	36000	ug/Kg	7.54		11.4		1.64	U	1.46	U	18.5		29.1	
Cyclohexane	SW8260B	11.6	280000	ug/Kg	3.6	J	11.6		3.69	J	1.69	U	5.91		7.88	
Ethylbenzene	SW8260B	2.9	190000	ug/Kg	0.812	U	2.9	J	0.762	U	0.681	U	1.05	J	1.38	J
Methylcyclohexane	SW8260B	12	260000	ug/Kg	3.97	J	12		3.85	J	0.788	U	5.93		8.53	
Toluene	SW8260B	13.6	66000	ug/Kg	0.957	U	13.6	B	0.898	U	0.803	U	4.62	JB	5.44	JB
Xylenes, Total	SW8260B	7.8	27000	ug/Kg	1.94	J	7.8		2.13	J	1.15	U	3.83	J	6.13	
Semivolatile Organic Compounds																
2,4-Dinitrotoluene	SW8270C	245	12000	ug/Kg	122	U	117	U	114	U	121	U	245	J	117	U
2-Methylnaphthalene	SW8270C	646		ug/Kg	82.3	J	145	J	646		30	U	29	U	123	J
Acenaphthene	SW8270C	805	370000	ug/Kg	13.4	U	146	J	805		13.2	U	12.8	U	112	J
Acenaphthylene	SW8270C	265		ug/Kg	86.3	J	265	J	160	J	42	U	40.6	U	123	J
Anthracene	SW8270C	2070	2200000	ug/Kg	133	J	1280		2070		30.6	U	29.6	U	441	
Benzaldehyde	SW8270C	95.9	610000	ug/Kg												
Benzo(a)anthracene	SW8270C	4020	620	ug/Kg	304	J	**4020**		**2860**		22.1	U	90.7	J	**906**	
Benzo(a)pyrene	SW8270C	3580	62	ug/Kg	**283**	**J**	**3580**	**J**	**2330**	**J**	29.9	U	**71.4**	**J**	**907**	**J**
Benzo(b)fluoranthene	SW8270C	3110	620	ug/Kg	288	J	**3110**	**J**	**2200**	**J**	28.5	U	86.8	J	**909**	**J**
Benzo(g,h,i)perylene	SW8270C	1850		ug/Kg	365	J	1850	J	935	J	27.2	U	70.5	J	427	J
Benzo(k)fluoranthene	SW8270C	2620	6200	ug/Kg	264	J	2620	J	1900	J	32.3	U	67.6	J	918	J
Biphenyl (Diphenyl)	SW8270C	72.1	300000	ug/Kg					72.1	J						
Carbazole	SW8270C	877	24000	ug/Kg	89.3	J	552		877		50	U	48.2	U	270	J
Chrysene	SW8270C	4310	62000	ug/Kg	377	J	4310		2920		17.5	U	147	J	1160	
Di-n-butylphthalate	SW8270C	9230	610000	ug/Kg	737		451	U	438	U	9230		449	U	452	U
Dibenz(a,h)anthracene	SW8270C	1280	62	ug/Kg	**170**	**J**	**1280**	**J**	**692**	**J**	22.8	U	22	U	**211**	**J**
Dibenzofuran	SW8270C	518	15000	ug/Kg	282	U	271	U	518		280	U	270	U	272	U
Fluoranthene	SW8270C	8550	230000	ug/Kg	593		8550		8380		19	U	163	J	1800	
Fluorene	SW8270C	1000	270000	ug/Kg	11.2	U	258	J	1000		11.1	U	10.8	U	149	J
Indeno(1,2,3-cd)pyrene	SW8270C	4540	620	ug/Kg	421		**4540**	**J**	**2090**	**J**	28.5	U	133	J	**940**	**J**
Naphthalene	SW8270C	326	5600	ug/Kg	11	U	96.4	J	326	J	10.9	U	10.5	U	66.2	J
Phenanthrene	SW8270C	6660		ug/Kg	365	J	2910		6660		21.3	U	80	J	1240	
Pyrene	SW8270C	4450	230000	ug/Kg	452		4450		3500		16.5	U	133	J	1130	
Explosives																

J = Estimated Value, U = Non-detection, R = Rejected, B = Found in Blank, N = Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-1 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB023 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB024 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB025 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB026 11/8/2004 0.5-1.5 ft. Result	VQ	AA2-SB027 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB028 11/1/2004 0.5-1.5 ft. Result	VQ
2,6-Dinitrotoluene	SW8330	833	6100	ug/Kg	63.7	U	59.5	U	63.7	U	61	U	833		63.4	U
3-Nitrotoluene	SW8330	157	73000	ug/Kg	143	U	134	U	157	J	137	U	136	U	142	U
Nitrobenzene	SW8330	158	2000	ug/Kg	53.4	U	49.9	U	158	J	51.1	U	50.6	U	53.1	U
Polychlorinated Biphenyls (PCBs)																
PCB-1254 (Aroclor 1254)	SW8082	16000	220	ug/Kg	**2700**	J	**511**	J	**2860**	J	18.1	U	**6950**	J	**5200**	J
PCB-1260 (Aroclor 1260)	SW8082	31400	220	ug/Kg	**6110**	J	**1030**		**2940**	J	5.07	U	**18000**	J	**6330**	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J = Estimated Value, U = Non-detection, R = Rejected, B = Found in Blank, N = Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-2 Summary of Metals
Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB016 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB017 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB018 (field dup) 10/28/2004 0.5-1.5 ft. Result	VQ	AA2-SB019 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB020 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB021 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB022 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB023 11/1/2004 0.5-1.5 ft. Result	VQ
Metals																							
Aluminum	SW6010B	10900	15500	7600	mg/Kg	6340		10900		5010		4770		8330		8090		10100		10100		7280	
Antimony	SW6010B	2.07	9.3	3.1	mg/Kg	0.559	U	0.754	J	0.72	U	0.682	U	0.906	J	1.27	J	1.2	J	1.5	J	1.46	J
Arsenic	SW6010B	11.2	36.5	0.39	mg/Kg	5.41	J	7.3	J	6.24	J	4.22	J	5.6	J	6.88	J	11.2	J	9.35	J	6.34	
Barium	SW6010B	159	826	540	mg/Kg	55.1		77.8		18.7		17.7		64.4		63.2		59.9		61		52.9	
Beryllium	SW6010B	0.558	1	15	mg/Kg	0.247	J	0.558		0.226	J	0.196	J	0.547		0.341	J	0.458		0.415	J	0.308	J
Cadmium	SW6010B	0.661		3.7	mg/Kg	0.358	J	0.476	J	0.241	J	0.22	J	0.353	J	0.508	J	0.381	J	0.485	J	0.621	
Calcium	SW6010B	80400	52300		mg/Kg	15900		4900		1040		988		3520		8560		4790		9500		5700	
Chromium	SW6010B	25.1	29		mg/Kg	12.4		15.7		8.77		7.67		13.2		25.1		16.9		17.9		13.6	
Cobalt	SW6010B	9.45	116	90	mg/Kg	5.15		6.92		6.91		6.55		5.42		7.26		9.45		7.81		6.19	
Copper	SW6010B	53	56.2	310	mg/Kg	11.8		18.5		8.93		7.22		17.8	J	22.4	J	21.7	J	19.3	J	14.7	
Iron	SW6010B	25300	234000	2300	mg/Kg	16500		21200		13200		11400		16600		18700		23500		25300		17400	
Lead	SW6010B	477	48.6	40	mg/Kg	27.6		14.5		5.94		5.29		11.9		**53.1**		12		**62.3**		**94**	
Magnesium	SW6010B	8120	10400		mg/Kg	3020		2760		961		861		2160		3870		3660		2960		2600	
Manganese	SW6010B	646	3506.2	180	mg/Kg	316		273		454		447		275		355		386		451		267	
Mercury	SW7471A	0.429	0.1	2.3	mg/Kg	0.0224	J	0.0559		0.0396		0.0245		0.0162	J	0.0232	J	0.0236	J	0.151		0.293	
Nickel	SW6010B	25.9	55.1	160	mg/Kg	13.4		18.6		11.8		10.6		14.5		18.4		25.9		21.2		16.2	
Potassium	SW6010B	1100	3390		mg/Kg	672		1080		377		348		885		862		1100		992		894	
Selenium	SW6010B	1.87	2	39	mg/Kg	1.01	U	1.27	U	1.3	U	1.23	U	1.87		1.16	U	1.04	U	1.2	U	1.37	U
Silver	SW6010B	0.389	11.1	39	mg/Kg	0.144	J	0.156	J	0.106	U	0.1	U	0.0929	U	0.0941	U	0.0847	U	0.0977	U	0.112	U
Sodium	SW6010B	101			mg/Kg	69.2	J	42.3	J	41.1	J	39.1	J	40.3	J	46.2	J	52.3	J	59.8	J	36.7	J
Thallium	SW6010B	5.24	1.3	0.52	mg/Kg	**3.81**		**3.96**		**2.99**		**2.86**		**3.73**	**J**	**5.02**	**J**	**4.15**	**J**	**5.24**	**J**	**4.61**	
Vanadium	SW6010B	29.6	40.9	7.8	mg/Kg	18.6		26.2		18.8		16.4		19.8		21		25.9		29.6		19.9	
Zinc	SW6010B	372	321.8	2300	mg/Kg	89.6	J	73.2	J	25.6	J	22.1	J	60.1	J	162	J	60.9	J	57.8	J	118	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances.

Table 4-2 Summary of Metals
Detected in Surface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB024 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB025 11/1/2004 0.5-1.5 ft. Result	VQ	AA2-SB026 11/8/2004 0.5-1.5 ft. Result	VQ	AA2-SB027 10/29/2004 0.5-1.5 ft. Result	VQ	AA2-SB028 11/1/2004 0.5-1.5 ft. Result	VQ
Metals															
Aluminum	SW6010B	10900	15500	7600	mg/Kg	7510		6520		7220		8020		6850	
Antimony	SW6010B	2.07	9.3	3.1	mg/Kg	0.717	J	2.07	J	0.581	U	0.984	J	1.1	J
Arsenic	SW6010B	11.2	36.5	0.39	mg/Kg	8.49		8.14		3.39		4.45	J	3.38	
Barium	SW6010B	159	826	540	mg/Kg	56.8		60.7		26.9		58.7		159	
Beryllium	SW6010B	0.558	1	15	mg/Kg	0.292	J	0.324	J	0.0842	J	0.375	J	0.198	J
Cadmium	SW6010B	0.661		3.7	mg/Kg	0.437		0.648		0.134	J	0.591	J	0.661	
Calcium	SW6010B	80400	52300		mg/Kg	24600		7400		1190		12500		80400	
Chromium	SW6010B	25.1	29		mg/Kg	13.2		11.9		8.39		17.3		18.5	
Cobalt	SW6010B	9.45	116	90	mg/Kg	7.68		7.08		3.02		5.62		5.55	
Copper	SW6010B	53	56.2	310	mg/Kg	22.4		22.7		3.66		15.2	J	53	
Iron	SW6010B	25300	234000	2300	mg/Kg	19700		17800		10700		16600		16100	
Lead	SW6010B	477	48.6	40	mg/Kg	**49.6**		**89.4**		3.82		**477**		**154**	
Magnesium	SW6010B	8120	10400		mg/Kg	8120		2460		901		5410		6340	
Manganese	SW6010B	646	3506.2	180	mg/Kg	408		305		90.7		254		646	
Mercury	SW7471A	0.429	0.1	2.3	mg/Kg	0.125		0.209		0.0152	J	0.0351		0.429	
Nickel	SW6010B	25.9	55.1	160	mg/Kg	20.3		17.4		7.35		13.5		18.3	
Potassium	SW6010B	1100	3390		mg/Kg	994		707		274		760		785	
Selenium	SW6010B	1.87	2	39	mg/Kg	2.01	U	1.16	U	1.05	U	0.983	U	2.69	U
Silver	SW6010B	0.389	11.1	39	mg/Kg	0.0933	J	0.0951	J	0.0856	U	0.0801	U	0.389	J
Sodium	SW6010B	101			mg/Kg	60	J	42.9	J	32	J	55.7	J	101	J
Thallium	SW6010B	5.24	1.3	0.52	mg/Kg	**3.5**		**5.01**		**2.07**		**4.03**	**J**	1.14	U
Vanadium	SW6010B	29.6	40.9	7.8	mg/Kg	21.4		20.8		18.5		19.4		19.3	
Zinc	SW6010B	372	321.8	2300	mg/Kg	98.3		146		19.7		372	J	146	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances.

Table 4-3 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB001 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB002 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB003 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB004 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB005 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB006 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB006 (field dup) 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB007 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB008 04/28/1998 0.0-1.0 ft. Result	VQ
Volatile Organic Compounds																						
Acetone	SW8260	44000	1400000	ug/Kg	24	U	380		24	U	24	U	77		24	U	44000	D	8600	J	4300	J
Methylene Chloride	SW8260	29	9100	ug/Kg	2.4	J	6.1	U	6	U	6.1	U	6.1	U	6.1	U	28	J	29	J	29	U
Toluene	SW8260	1.8	66000	ug/Kg	6	U	6.1	U	6	U	1.8	J	6.1	U	6.1	U	60	U	60	U	29	U
Semivolatile Organic Compounds																						
2,4-Dinitrotoluene	SW8270	5800	12000	ug/Kg	44	J	400	U	5800		400	U	400	U	400	U	390	U	390	U	380	U
2-Methylnaphthalene	SW8270	60		ug/Kg	400	U	400	U	60	J	400	U	400	U	400	U	390	U	390	U	380	U
3,3'-Dichlorobenzidine	SW8270	140	1100	ug/Kg	1900	U	1900	U	1900	U	1900	U	2000	U	1900	U	1900	U	1900	U	1800	U
Acenaphthene	SW8270	800	370000	ug/Kg	400	U	400	U	800		400	U	400	U	400	U	390	U	390	U	380	U
Acenaphthylene	SW8270	100		ug/Kg	400	U	400	U	70	J	400	U	400	U	87	J	100	J	390	U	380	U
Anthracene	SW8270	1800	2200000	ug/Kg	400	U	400	U	1800		400	U	400	U	100	J	140	J	390	U	380	U
Benzo(a)anthracene	SW8270	8500	620	ug/Kg	67	J	45	J	**8500**	**D**	400	U	400	U	230	J	280	J	390	U	380	U
Benzo(a)pyrene	SW8270	7300	62	ug/Kg	**72**	**J**	45	J	**7300**	**D**	400	U	400	U	**260**	**J**	**290**	**J**	390	U	380	U
Benzo(b)fluoranthene	SW8270	9700	620	ug/Kg	71	J	400	U	**9700**	**D**	400	U	400	U	190	J	230	J	390	U	380	U
Benzo(g,h,i)perylene	SW8270	1900		ug/Kg	41	J	400	U	1900		400	U	400	U	160	J	170	J	390	U	380	U
Benzo(k)fluoranthene	SW8270	6300	6200	ug/Kg	79	J	53	J	**6300**	**D**	400	U	400	U	270	J	310	J	390	U	380	U
Carbazole	SW8270	1500	24000	ug/Kg	400	U	400	U	1500		400	U	400	U	400	U	390	U	390	U	380	U
Chrysene	SW8270	8300	62000	ug/Kg	100	J	52	J	8300	D	400	U	400	U	240	J	280	J	390	U	380	U
Dibenz(a,h)anthracene	SW8270	1100	62	ug/Kg	400	U	400	U	**1100**		400	U	400	U	**77**	**J**	**87**	**J**	390	U	380	U
Dibenzofuran	SW8270	190	15000	ug/Kg	400	U	400	U	190	J	400	U	400	U	400	U	390	U	390	U	380	U
Fluoranthene	SW8270	17000	230000	ug/Kg	110	J	71	J	17000	D	400	U	400	U	340	J	440		390	U	380	U
Fluorene	SW8270	420	270000	ug/Kg	400	U	400	U	420		400	U	400	U	400	U	390	U	390	U	380	U
Indeno(1,2,3-cd)pyrene	SW8270	2200	620	ug/Kg	38	J	400	U	**2200**		400	U	400	U	160	J	180	J	390	U	380	U
Naphthalene	SW8270	120	5600	ug/Kg	400	U	400	U	120	J	400	U	400	U	400	U	390	U	390	U	380	U
Phenanthrene	SW8270	7100		ug/Kg	400	U	400	U	7100	D	400	U	400	U	68	J	100	J	390	U	380	U
Pyrene	SW8270	15000	230000	ug/Kg	110	J	58	J	15000	D	400	U	400	U	260	J	310	J	390	U	380	U
bis(2-Ethylhexyl)phthalate	SW8270	55	35000	ug/Kg	400	U	400	U	400	U	400	U	400	U	50	J	390	U	55	J	380	U
Polychlorinated Biphenyls (PCBs)																						
PCB-1260 (Aroclor 1260)	SW8081	20000	220	ug/Kg	**20000**		**260**		**7800**		40	U	40	U	**3600**		**20000**		39	U	38	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-3 Summary of Organic Compounds Detected in Surface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB009 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB010 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB011 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB012 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB013 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB014 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB015 04/27/1998 0.0-1.0 ft. Result	VQ
Volatile Organic Compounds																		
Acetone	SW8260	44000	1400000	ug/Kg	25	U	25	U	13	J	24	U	25	U	23	U	25	U
Methylene Chloride	SW8260	29	9100	ug/Kg	6.2	U	6.2	U	5.8	U	6.1	U	2.7	J	2.2	J	6.2	U
Toluene	SW8260	1.8	66000	ug/Kg	6.2	U	6.2	U	5.8	U	6.1	U	6.2	U	5.9	U	6.2	U
Semivolatile Organic Compounds																		
2,4-Dinitrotoluene	SW8270	5800	12000	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
2-Methylnaphthalene	SW8270	60		ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
3,3'-Dichlorobenzidine	SW8270	140	1100	ug/Kg	2000	U	2000	U	1900	U	2000	U	140	J	1900	U	2000	U
Acenaphthene	SW8270	800	370000	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
Acenaphthylene	SW8270	100		ug/Kg	410	U	410	U	68	J	400	U	410	U	390	U	410	U
Anthracene	SW8270	1800	2200000	ug/Kg	410	U	410	U	69	J	400	U	45	J	390	U	410	U
Benzo(a)anthracene	SW8270	8500	620	ug/Kg	410	U	410	U	180	J	400	U	110	J	390	U	410	U
Benzo(a)pyrene	SW8270	7300	62	ug/Kg	410	U	410	U	**180**	**J**	400	U	**120**	**J**	390	U	410	U
Benzo(b)fluoranthene	SW8270	9700	620	ug/Kg	410	U	410	U	140	J	400	U	100	J	390	U	410	U
Benzo(g,h,i)perylene	SW8270	1900		ug/Kg	410	U	410	U	110	J	400	U	43	J	390	U	410	U
Benzo(k)fluoranthene	SW8270	6300	6200	ug/Kg	410	U	410	U	190	J	400	U	110	J	390	U	410	U
Carbazole	SW8270	1500	24000	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
Chrysene	SW8270	8300	62000	ug/Kg	410	U	410	U	180	J	400	U	110	J	390	U	410	U
Dibenz(a,h)anthracene	SW8270	1100	62	ug/Kg	410	U	410	U	53	J	400	U	410	U	390	U	410	U
Dibenzofuran	SW8270	190	15000	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
Fluoranthene	SW8270	17000	230000	ug/Kg	410	U	410	U	260	J	400	U	200	J	390	U	410	U
Fluorene	SW8270	420	270000	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
Indeno(1,2,3-cd)pyrene	SW8270	2200	620	ug/Kg	410	U	410	U	110	J	400	U	51	J	390	U	410	U
Naphthalene	SW8270	120	5600	ug/Kg	410	U	410	U	380	U	400	U	410	U	390	U	410	U
Phenanthrene	SW8270	7100		ug/Kg	410	U	410	U	73	J	400	U	47	J	390	U	410	U
Pyrene	SW8270	15000	230000	ug/Kg	410	U	410	U	190	J	400	U	160	J	390	U	410	U
bis(2-Ethylhexyl)phthalate	SW8270	55	35000	ug/Kg	410	U	410	U	380	U	42	J	410	U	39	J	45	J
Polychlorinated Biphenyls (PCBs)																		
PCB-1260 (Aroclor 1260)	SW8081	20000	220	ug/Kg	41	U	**1500**		**240**		40	U	**9800**		45		47	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-4 Summary of Metals Detected in Surface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB001 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB002 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB003 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB004 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB005 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB006 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB006 (field dup) 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB007 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB008 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB009 04/28/1998 0.0-1.0 ft. Result	VQ
Metals																									
Aluminum	SW6010	18400	15500	7600	mg/Kg	9320		5390		4230		10900		10700		9320		7300		10200		**18400**		9060	
Arsenic	SW6010	19.3	36.5	0.39	mg/Kg	7.2		4.9		19.3		8.3		7.3		6.5		6.1		5.8		7.7		7	
Barium	SW6010	188	826	540	mg/Kg	84.4		28.3		188		54		72.4		54.6		67.5		42.3		98.6		26.3	
Beryllium	SW6010	0.86	1	15	mg/Kg	0.6	U	0.61	U	0.6	U	0.61		0.61	U	0.61	U	0.6	U	0.6	U	0.86		0.62	U
Cadmium	SW6010	1.3		3.7	mg/Kg	0.62		0.61	U	1.3		0.61	U	0.61	U	0.61	U	0.6	U	0.6	U	0.57	U	0.62	U
Calcium	SW6010	104000	52300		mg/Kg	7440		1800	J	104000		1870		3710	J	9350	J	8850	J	5160	J	3670	J	1620	J
Chromium	SW6010	23.7	29		mg/Kg	20.8		11		14.6		16		15.7		14.9		13.8		15		23.7		15.1	
Cobalt	SW6010	11.9	116	90	mg/Kg	10.6		6.1	U	7.7		11.2		11.8		9.7		8.3		11.3		11.9		8.8	
Copper	SW6010	70.4	56.2	310	mg/Kg	19.6		9.2		70.4		21		26		14.9		15.7		12.5		18.2		13.5	
Iron	SW6010	36100	234000	2300	mg/Kg	20000		15200		36100		22200		21100		18300		17200		18500		25600		20200	
Lead	SW6010	7410	48.6	40	mg/Kg	**143**		**71.2**		**7410**		8.1		11.8		40.1		**70**		7.7		13.2		7	
Magnesium	SW6010	9770	10400		mg/Kg	3280		912		9770		2730		2450		3270		3140		2750		3710		2190	
Manganese	SW6010	1010	3506.2	180	mg/Kg	488		109		1010		170		197		320		320		286		191		309	
Mercury	SW7471	0.069	0.1	2.3	mg/Kg	0.04	U	0.04	U	0.069		0.04	U	0.04		0.04	U	0.039	U	0.039	U	0.04		0.046	
Nickel	SW6010	25	55.1	160	mg/Kg	22.7		9.4		21.8		24.9		20.6		16.5		16.5		16.4		25		15.7	
Potassium	SW6010	1850	3390		mg/Kg	1450		609	U	744		1190		1330		987		955		1000		1850		835	
Selenium	SW6010	0.82	2	39	mg/Kg	0.66		0.61	U	6	U	0.61	U	0.8		0.78		0.62		0.72		0.73		0.62	U
Sodium	SW6010	650			mg/Kg	600	U	609	U	600	U	607	U	613	U	607	U	650		595	U	573	U	620	U
Vanadium	SW6010	35.3	40.9	7.8	mg/Kg	23.1		23.3		32.7		23.3		24.8		23.5		18.4		24.8		35.3		26.7	
Zinc	SW6010	336	321.8	2300	mg/Kg	252		38.3	J	336		60.1		71.7	J	112	J	136	J	37.6	J	59.9	J	39.1	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-4 Summary of Metals Detected in Surface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB010 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB011 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB012 04/28/1998 0.0-1.0 ft. Result	VQ	AA2-SB013 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB014 04/27/1998 0.0-1.0 ft. Result	VQ	AA2-SB015 04/27/1998 0.0-1.0 ft. Result	VQ
Metals																	
Aluminum	SW6010	18400	15500	7600	mg/Kg	7090		7230		10900		6740		7880		12500	
Arsenic	SW6010	19.3	36.5	0.39	mg/Kg	4.4		4.2		5.4		4.6		3.6		6	
Barium	SW6010	188	826	540	mg/Kg	59.1		43		64.5		44.6		43.1		83.1	
Beryllium	SW6010	0.86	1	15	mg/Kg	0.62	U	0.58	U	0.61	U	0.62	U	0.59	U	0.64	
Cadmium	SW6010	1.3		3.7	mg/Kg	0.62	U	0.58	U	0.61	U	0.62	U	0.59	U	0.62	U
Calcium	SW6010	104000	52300		mg/Kg	3030	J	2990	J	4970	J	7890		1950		4580	
Chromium	SW6010	23.7	29		mg/Kg	10.2		9		14.6		10.5		11.5		17.2	
Cobalt	SW6010	11.9	116	90	mg/Kg	6.9		6.4		8.6		6.4		6.2		10.1	
Copper	SW6010	70.4	56.2	310	mg/Kg	11.5		7.4		12.7		8.6		6.4		19.2	
Iron	SW6010	36100	234000	2300	mg/Kg	14600		12200		17100		12700		13800		21700	
Lead	SW6010	7410	48.6	40	mg/Kg	20.4		8.1		8.7		28.8		5.8		9.1	
Magnesium	SW6010	9770	10400		mg/Kg	1780		1860		2660		2070		1590		2990	
Manganese	SW6010	1010	3506.2	180	mg/Kg	284		256		208		214		118		211	
Mercury	SW7471	0.069	0.1	2.3	mg/Kg	0.041	U	0.038	U	0.04	U	0.041	U	0.039	U	0.041	U
Nickel	SW6010	25	55.1	160	mg/Kg	14.4		11		17		11.4		10.2		19	
Potassium	SW6010	1850	3390		mg/Kg	669		587		896		618	U	586	U	1200	
Selenium	SW6010	0.82	2	39	mg/Kg	0.62	U	0.59		0.61	U	0.62	U	0.61		0.82	
Sodium	SW6010	650			mg/Kg	617	U	583	U	611	U	618	U	586	U	622	U
Vanadium	SW6010	35.3	40.9	7.8	mg/Kg	17.5		17.3		25.3		18.8		19.9		24.5	
Zinc	SW6010	336	321.8	2300	mg/Kg	84.1	J	33.4	J	44.7	J	66.5		31.7		72.3	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Shaded / bold values represent PRG exceedances

Table 4-5 Summary of Organic Compounds Detected in Suburface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB016 10/28/2004 3.0-5.0 ft.		AA2-SB016 (field dup) 10/28/2004 3.0-5.0 ft.		AA2-SB016 10/28/2004 8.0-10.0 ft.		AA2-SB017 10/28/2004 3.0-5.0 ft.		AA2-SB017 10/28/2004 8.0-10.0 ft.		AA2-SB018 10/28/2004 3.0-5.0 ft.		AA2-SB018 (field dup) 10/28/2004 3.0-5.0 ft.		AA2-SB018 10/28/2004 8.0-10.0 ft.	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																				
2-Butanone (Methyl ethyl ketone)	SW8260B	4.08	2200000	ug/Kg	4.08	J	2.78	J	1.27	UJ	1.1	U	1.1	UJ	1.2	U	1.51	U	1.12	UJ
Benzene	SW8260B	6.95	640	ug/Kg	0.798	U	0.84	U	6.89	J	0.845	U	2.39	J	5.99		6.95		2.5	J
Carbon Disulfide	SW8260B	11.6	36000	ug/Kg	1.3	U	1.37	U	1.6	UJ	1.38	U	1.38	UJ	1.5	U	1.9	U	1.4	UJ
Cyclohexane	SW8260B	24.5	280000	ug/Kg	1.5	U	1.58	U	10.7	J	1.59	U	6.42	J	9.21		10.6		6.4	J
Ethylbenzene	SW8260B	4.55	190000	ug/Kg	0.607	U	0.639	U	1.18	J	0.643	U	0.824	J	3.18	J	4.55	J	0.678	J
Methylcyclohexane	SW8260B	20.6	260000	ug/Kg	0.702	U	0.93	J	11.1	J	0.744	U	6.17	J	12.3		12.1		6.41	J
Toluene	SW8260B	17.8	66000	ug/Kg	0.716	U	0.753	U	9.12	J	0.758	U	3.66	J	13.2		17.8		3.47	J
Xylenes, Total	SW8260B	13.7	27000	ug/Kg	1.02	U	1.07	U	3.69	J	1.08	U	3.08	J	10.4		13.7		2.93	J
Semivolatile Organic Compounds																				
2-Methylnaphthalene	SW8270C	89.9		ug/Kg	29.8	U	30.7	U	32.2	U	30.5	U	31.3	U	31.4	U	31.1	U	31.1	U
Acenaphthene	SW8270C	323	370000	ug/Kg	13.1	U	13.5	U	14.2	U	13.4	U	13.8	U	13.8	U	13.7	U	13.7	U
Acenaphthylene	SW8270C	597		ug/Kg	41.7	U	42.9	U	45	U	42.6	U	43.8	U	43.9	U	43.5	U	43.5	U
Anthracene	SW8270C	1980	2200000	ug/Kg	30.4	U	31.3	U	32.8	U	31.1	U	31.9	U	32	U	31.7	U	31.7	U
Benzo(a)anthracene	SW8270C	3400	620	ug/Kg	21.9	U	22.6	U	23.7	U	22.4	U	23	U	23.1	U	22.9	U	22.9	U
Benzo(a)pyrene	SW8270C	3050	62	ug/Kg	29.7	U	30.6	U	32.1	U	30.4	U	31.2	U	31.2	U	31	U	31	U
Benzo(b)fluoranthene	SW8270C	2410	620	ug/Kg	28.3	U	29.2	U	30.6	U	29	U	29.7	U	29.8	U	29.6	U	29.6	U
Benzo(g,h,i)perylene	SW8270C	1990		ug/Kg	26.9	U	27.7	U	29.1	U	27.6	U	28.3	U	28.4	U	28.1	U	28.1	U
Benzo(k)fluoranthene	SW8270C	2360	6200	ug/Kg	32.1	U	33	U	34.6	U	32.8	U	33.7	U	33.8	U	33.5	U	33.5	U
Benzyl butyl phthalate	SW8270C	385	1200000	ug/Kg	147	U	152	U	159	U	151	U	155	U	155	U	154	U	154	U
Carbazole	SW8270C	540	24000	ug/Kg	49.5	U	51	U	53.5	U	50.7	U	52	U	52.2	U	51.7	U	51.7	U
Chrysene	SW8270C	3480	62000	ug/Kg	17.3	U	17.9	U	18.7	U	17.8	U	18.2	U	18.3	U	18.1	U	18.1	U
Di-n-butylphthalate	SW8270C	916	610000	ug/Kg	461	U	475	U	498	U	472	U	484	U	486	U	482	U	481	U
Dibenz(a,h)anthracene	SW8270C	1280	62	ug/Kg	22.6	U	23.3	U	24.4	U	23.1	U	23.7	U	23.8	U	23.6	U	23.6	U
Fluoranthene	SW8270C	9020	230000	ug/Kg	18.8	U	19.4	U	20.3	U	19.3	U	19.8	U	19.8	U	19.7	U	19.7	U
Fluorene	SW8270C	469	270000	ug/Kg	11	U	11.4	U	11.9	U	11.3	U	11.6	U	11.6	U	11.5	U	11.5	U
Indeno(1,2,3-cd)pyrene	SW8270C	4220	620	ug/Kg	28.3	U	29.2	U	30.6	U	29	U	29.7	U	29.8	U	29.6	U	29.6	U
Naphthalene	SW8270C	103	5600	ug/Kg	10.8	U	11.1	U	11.7	U	11.1	U	11.4	U	11.4	U	11.3	U	11.3	U
Phenanthrene	SW8270C	4300		ug/Kg	21.1	U	21.7	U	22.8	U	21.6	U	22.2	U	22.2	U	22.1	U	22	U
Pyrene	SW8270C	4510	230000	ug/Kg	16.3	U	16.8	U	17.6	U	16.7	U	17.1	U	17.2	U	17.1	U	17	U
bis(2-Ethylhexyl)phthalate	SW8270C	428	35000	ug/Kg	377	U	388	U	407	U	385	U	396	U	397	U	393	U	393	U
Polychlorinated Biphenyls (PCBs)																				
PCB-1254 (Aroclor 1254)	SW8082	333	220	ug/Kg	30	J	17.8	U	20	U	18	U	18.7	U	18.9	U	18.5	U	18.4	U
PCB-1260 (Aroclor 1260)	SW8082	2560	220	ug/Kg	67.4	J	39.4	J	5.58	U	5.02	U	5.22	U	5.28	U	5.16	U	5.15	U

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J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 4-5 Summary of Organic Compounds Detected in Suburface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB019 10/29/2004 3.0-5.0 ft.		AA2-SB020 10/29/2004 3.0-5.0 ft.		AA2-SB020 10/29/2004 8.0-10.0 ft.		AA2-SB021 10/29/2004 3.0-5.0 ft.		AA2-SB022 10/29/2004 3.0-5.0 ft.		AA2-SB023 11/1/2004 3.0-5.0 ft.		AA2-SB023 11/1/2004 8.0-10.0 ft.		AA2-SB024 11/1/2004 3.0-5.0 ft.		AA2-SB025 11/1/2004 3.0-5.0 ft.	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																						
2-Butanone (Methyl ethyl ketone)	SW8260B	4.08	2200000	ug/Kg	1.29	U	1.13	U	4.9	U	1.15	U	1.24	U	1.15	U	1.25	U	1.43	U	1.22	U
Benzene	SW8260B	6.95	640	ug/Kg	0.99	U	3.1	J	6.18	J	4.44	J	6.46		0.886	U	2.91	J	1.09	U	0.939	U
Carbon Disulfide	SW8260B	11.6	36000	ug/Kg	1.62	U	1.41	U	6.15	U	11.6		1.55	U	1.45	U	1.57	U	1.79	U	1.53	U
Cyclohexane	SW8260B	24.5	280000	ug/Kg	1.87	U	5.55		24.5		8.52		11		1.67	U	6.98		4.01	J	1.77	U
Ethylbenzene	SW8260B	4.55	190000	ug/Kg	0.754	U	2	J	2.86	U	3.04	J	3.26	J	0.674	U	0.731	U	0.833	U	0.714	U
Methylcyclohexane	SW8260B	20.6	260000	ug/Kg	0.871	U	6.36		20.6	J	9.33		11.5		0.779	U	6.66		4.37	J	0.826	UJ
Toluene	SW8260B	17.8	66000	ug/Kg	0.888	U	6.8	B	8.4	JB	10.8	B	15.5	B	0.795	U	4.66	JB	2.65	JB	0.842	U
Xylenes, Total	SW8260B	13.7	27000	ug/Kg	1.27	U	5.27		4.82	U	7.57		9.91		1.13	U	2.42	J	3.61	J	1.2	U
Semivolatile Organic Compounds																						
2-Methylnaphthalene	SW8270C	89.9		ug/Kg	30.1	U	30.7	U	31.5	U	30.4	U	32.5	U	32.5	U	31.3	U	89.9	J	65.7	J
Acenaphthene	SW8270C	323	370000	ug/Kg	13.3	U	13.5	U	13.9	U	13.4	U	14.3	U	14.3	U	13.8	U	323	J	13.2	U
Acenaphthylene	SW8270C	597		ug/Kg	42.1	U	42.9	U	44.1	U	42.6	U	45.5	U	45.4	U	43.8	U	597		41.8	U
Anthracene	SW8270C	1980	2200000	ug/Kg	30.7	U	31.3	U	32.1	U	31	U	33.1	U	33.1	U	31.9	U	1980		180	J
Benzo(a)anthracene	SW8270C	3400	620	ug/Kg	22.1	U	22.6	U	23.2	U	22.4	U	23.9	U	23.9	U	23.1	U	**3400**		302	J
Benzo(a)pyrene	SW8270C	3050	62	ug/Kg	30	U	30.6	U	31.4	U	30.3	U	32.4	U	32.3	U	31.2	U	**3050**		**253**	J
Benzo(b)fluoranthene	SW8270C	2410	620	ug/Kg	28.6	U	29.2	U	30	U	28.9	U	30.9	U	30.8	U	29.8	U	**2410**		197	J
Benzo(g,h,i)perylene	SW8270C	1990		ug/Kg	27.2	U	27.8	U	28.5	U	27.5	U	29.4	U	29.4	U	28.3	U	1990		278	J
Benzo(k)fluoranthene	SW8270C	2360	6200	ug/Kg	32.4	U	33.1	U	34	U	32.8	U	35	U	35	U	33.7	U	2360		249	J
Benzyl butyl phthalate	SW8270C	385	1200000	ug/Kg	385		152	U	156	U	150	U	161	U	160	U	155	U	153	U	148	U
Carbazole	SW8270C	540	24000	ug/Kg	50	U	51	U	52.4	U	50.6	U	54.1	U	54	U	52.1	U	540		87.3	J
Chrysene	SW8270C	3480	62000	ug/Kg	17.5	U	17.9	U	18.4	U	17.7	U	18.9	U	18.9	U	18.2	U	3480		298	J
Di-n-butylphthalate	SW8270C	916	610000	ug/Kg	466	U	475	U	488	U	471	U	503	U	502	U	485	U	479	U	916	
Dibenz(a,h)anthracene	SW8270C	1280	62	ug/Kg	22.8	U	23.3	U	23.9	U	23.1	U	24.7	U	24.6	U	23.8	U	**1280**		**148**	J
Fluoranthene	SW8270C	9020	230000	ug/Kg	19	U	19.4	U	19.9	U	19.2	U	20.6	U	20.5	U	19.8	U	9020		657	J
Fluorene	SW8270C	469	270000	ug/Kg	11.2	U	11.4	U	11.7	U	11.3	U	12.1	U	12	U	11.6	U	469		69.6	J
Indeno(1,2,3-cd)pyrene	SW8270C	4220	620	ug/Kg	28.6	U	29.2	U	30	U	28.9	U	30.9	U	30.8	U	29.8	U	**4220**	J	358	J
Naphthalene	SW8270C	103	5600	ug/Kg	10.9	U	11.1	U	11.4	U	11	U	11.8	U	11.8	U	11.4	U	103	J	10.9	U
Phenanthrene	SW8270C	4300		ug/Kg	21.3	U	21.8	U	22.4	U	21.6	U	23	U	23	U	22.2	U	4300		524	J
Pyrene	SW8270C	4510	230000	ug/Kg	16.5	U	16.8	U	17.3	U	16.7	U	17.8	U	17.8	U	17.2	U	4510		494	J
bis(2-Ethylhexyl)phthalate	SW8270C	428	35000	ug/Kg	380	U	388	U	399	U	385	U	411	U	410	U	396	U	391	U	378	U
Polychlorinated Biphenyls (PCBs)																						
PCB-1254 (Aroclor 1254)	SW8082	333	220	ug/Kg	17	U	165	J	18.9	U	18.1	U	19.2	U	19.2	U	19.1	U	945	U	**333**	J
PCB-1260 (Aroclor 1260)	SW8082	2560	220	ug/Kg	23.7	J	**331**	J	5.29	U	5.04	U	13.4	J	27.5	J	5.33	U	**2560**	J	**415**	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 4-5 Summary of Organic Compounds Detected in Suburface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location , Date Depth Units	AA2-SB026 11/8/2004 3.0-5.0 ft.		AA2-SB026 11/8/2004 8.0-10.0 ft.		AA2-SB027 10/29/2004 3.0-5.0 ft.		AA2-SB028 11/1/2004 3.0-5.0 ft.		AA2-SB028 11/1/2004 8.0-10.0 ft.	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds														
2-Butanone (Methyl ethyl ketone)	SW8260B	4.08	2200000	ug/Kg	1.19	U	1.23	U	1.03	U	1.17	U	1.18	U
Benzene	SW8260B	6.95	640	ug/Kg	6.84		1.68	J	0.788	U	4.65	J	1.6	J
Carbon Disulfide	SW8260B	11.6	36000	ug/Kg	1.49	U	1.54	U	1.29	U	1.47	U	1.48	U
Cyclohexane	SW8260B	24.5	280000	ug/Kg	10.8		5.32	J	1.49	U	6.64		1.87	J
Ethylbenzene	SW8260B	4.55	190000	ug/Kg	3.27	J	0.716	U	0.6	U	2.62	J	1.45	J
Methylcyclohexane	SW8260B	20.6	260000	ug/Kg	11.4		5.88		0.694	U	7.03		2.78	J
Toluene	SW8260B	17.8	66000	ug/Kg	15.7		3.12	J	0.707	U	10.2	B	5.87	B
Xylenes, Total	SW8260B	13.7	27000	ug/Kg	9.71		1.39	J	1.01	U	5.92		4.53	J
Semivolatile Organic Compounds														
2-Methylnaphthalene	SW8270C	89.9		ug/Kg	32	U	33	U	25.7	U	32.3	U	32.2	U
Acenaphthene	SW8270C	323	370000	ug/Kg	14.1	U	14.5	U	11.3	U	14.2	U	14.2	U
Acenaphthylene	SW8270C	597		ug/Kg	44.7	U	46.1	U	35.9	U	45.1	U	45.1	U
Anthracene	SW8270C	1980	2200000	ug/Kg	32.6	U	33.6	U	26.2	U	32.9	U	32.9	U
Benzo(a)anthracene	SW8270C	3400	620	ug/Kg	23.5	U	24.3	U	18.9	U	23.7	U	23.7	U
Benzo(a)pyrene	SW8270C	3050	62	ug/Kg	31.8	U	32.9	U	25.6	U	32.1	U	32.1	U
Benzo(b)fluoranthene	SW8270C	2410	620	ug/Kg	30.4	U	31.3	U	24.4	U	30.7	U	30.6	U
Benzo(g,h,i)perylene	SW8270C	1990		ug/Kg	28.9	U	29.8	U	23.2	U	29.2	U	29.2	U
Benzo(k)fluoranthene	SW8270C	2360	6200	ug/Kg	34.4	U	35.5	U	27.7	U	34.7	U	34.7	U
Benzyl butyl phthalate	SW8270C	385	1200000	ug/Kg	158	U	163	U	127	U	159	U	159	U
Carbazole	SW8270C	540	24000	ug/Kg	53.2	U	54.8	U	42.7	U	53.6	U	53.6	U
Chrysene	SW8270C	3480	62000	ug/Kg	18.6	U	19.2	U	15	U	18.8	U	18.8	U
Di-n-butylphthalate	SW8270C	916	610000	ug/Kg	495	U	511	U	398	U	499	U	499	U
Dibenz(a,h)anthracene	SW8270C	1280	62	ug/Kg	24.3	U	25	U	19.5	U	24.5	U	24.5	U
Fluoranthene	SW8270C	9020	230000	ug/Kg	20.2	U	20.9	U	16.2	U	20.4	U	20.4	U
Fluorene	SW8270C	469	270000	ug/Kg	11.9	U	12.2	U	9.53	U	12	U	12	U
Indeno(1,2,3-cd)pyrene	SW8270C	4220	620	ug/Kg	30.4	U	31.3	U	24.4	U	30.7	U	30.6	U
Naphthalene	SW8270C	103	5600	ug/Kg	11.6	U	12	U	9.32	U	11.7	U	11.7	U
Phenanthrene	SW8270C	4300		ug/Kg	22.7	U	23.4	U	18.2	U	22.9	U	22.9	U
Pyrene	SW8270C	4510	230000	ug/Kg	17.5	U	18.1	U	14.1	U	17.7	U	17.7	U
bis(2-Ethylhexyl)phthalate	SW8270C	428	35000	ug/Kg	428		417	U	325	U	408	U	408	U
Polychlorinated Biphenyls (PCBs)														
PCB-1254 (Aroclor 1254)	SW8082	333	220	ug/Kg	18.2	U	20.1	U	112	J	19.5	U	19.8	U
PCB-1260 (Aroclor 1260)	SW8082	2560	220	ug/Kg	5.08	U	5.6	U	201	J	5.45	U	5.52	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 4-6 Summary of Metals Detected in Subsurface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB016 10/28/2004 3.0-5.0 ft. Result	VQ	AA2-SB016 (field dup) 10/28/2004 3.0-5.0 ft. Result	VQ	AA2-SB016 10/28/2004 8.0-10.0 ft. Result	VQ	AA2-SB017 10/28/2004 3.0-5.0 ft. Result	VQ	AA2-SB017 10/28/2004 8.0-10.0 ft. Result	VQ	AA2-SB018 10/28/2004 3.0-5.0 ft. Result	VQ	AA2-SB018 (field dup) 10/28/2004 3.0-5.0 ft. Result	VQ	AA2-SB018 10/28/2004 8.0-10.0 ft. Result	VQ	AA2-SB019 10/29/2004 3.0-5.0 ft. Result	VQ
Metals																							
Aluminum	SW6010B	12500	15500	7600	mg/Kg	12100		12500		3720		12400		10400		9250		11100		9350		11500	
Antimony	SW6010B	1.67	9.3	3.1	mg/Kg	1.41	J	1.04	J	0.703	U	0.982	J	0.689	U	0.595	U	0.643	U	0.828	U	1.67	J
Arsenic	SW6010B	15.5	36.5	0.39	mg/Kg	13.9	J	14.8	J	0.808	J	7.69	J	11.7	J	7.22	J	1.49	J	2.38	J	15.5	J
Barium	SW6010B	111	826	540	mg/Kg	80.5		70.5		22.7		65.4		77.5		56.9		61.3		58.1		71.5	
Beryllium	SW6010B	0.626	1	15	mg/Kg	0.625		0.626		0.179	J	0.532		0.49	J	0.424	J	0.489		0.407	J	0.596	
Cadmium	SW6010B	0.782		3.7	mg/Kg	0.532	J	0.461	J	0.23	J	0.246	J	0.458	J	0.356	J	0.251	J	0.398	J	0.397	J
Calcium	SW6010B	62700	52300		mg/Kg	11600	J	4720	J	62700		3580		54500		46600		49500		57300		3600	
Chromium	SW6010B	31	29		mg/Kg	31		21.8		6.82		20.8		17.3		15.5		17.9		15.7		20.5	
Cobalt	SW6010B	16.3	116	90	mg/Kg	14.3		13.1		4.58		7.4		10.2		9.04		7.71		11.1		9.25	
Copper	SW6010B	31.3	56.2	310	mg/Kg	22.2		27.8		17.7		14.4		24.3		23.3		21.6		26		18.5	J
Iron	SW6010B	41800	234000	2300	mg/Kg	29700		28600		14100		24700		30200		21400		20400		22900		32200	
Lead	SW6010B	40.6	48.6	40	mg/Kg	15.3		14.4		8.81		11.5		14.1		12.9		12.4		13.1		11.2	
Magnesium	SW6010B	22000	10400		mg/Kg	4480		4540		22000		4330		16300		19700		16400		17500		3810	
Manganese	SW6010B	1270	3506.2	180	mg/Kg	799		621		300		201		378		390		326		528		471	
Mercury	SW7471A	0.274	0.1	2.3	mg/Kg	0.0184	J	0.0298	J	0.0057	U	0.0098	J	0.0046	U	0.0307	J	0.0202	J	0.0054	U	0.0199	J
Nickel	SW6010B	35	55.1	160	mg/Kg	33.9		35		12.4		23.4		30.2		24.8		21.2		28.1		23.5	
Potassium	SW6010B	2180	3390		mg/Kg	1420		1670		810		1620		2180		1430		1740		2020		1420	
Selenium	SW6010B	1.12	2	39	mg/Kg	1.16	U	1.21	U	6.35	U	1.32	U	2.49	U	2.15	U	2.33	U	2.99	U	1.14	U
Silver	SW6010B	0.359	11.1	39	mg/Kg	0.206	J	0.172	J	0.328	J	0.178	J	0.35	J	0.232	J	0.233	J	0.359	J	0.109	J
Sodium	SW6010B	172			mg/Kg	72.7	J	75.4	J	126	J	69.3	J	147	J	112	J	114	J	159	J	61.7	J
Thallium	SW6010B	18.2	1.3	0.52	mg/Kg	**6.33**		**5.06**		**18.2**		**3.45**		1.05	U	0.911	U	0.984	U	1.27	U	**4.18**	**J**
Vanadium	SW6010B	31.8	40.9	7.8	mg/Kg	30		31.4		12.9		26.8		25.3		25.8		26		23.5		31.8	
Zinc	SW6010B	202	321.8	2300	mg/Kg	70.8	J	77.4	J	35.9	J	65.8	J	69.2	J	53.6	J	54.9	J	59.9	J	77	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumtive evidence. Bold / shaded values represent PRG exceedances.

Table 4-6 Summary of Metals Detected in Subsurface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB020 10/29/2004 3.0-5.0 ft. Result	VQ	AA2-SB020 10/29/2004 8.0-10.0 ft. Result	VQ	AA2-SB021 10/29/2004 3.0-5.0 ft. Result	VQ	AA2-SB022 10/29/2004 3.0-5.0 ft. Result	VQ	AA2-SB023 11/1/2004 3.0-5.0 ft. Result	VQ	AA2-SB023 11/1/2004 8.0-10.0 ft. Result	VQ	AA2-SB024 11/1/2004 3.0-5.0 ft. Result	VQ	AA2-SB025 11/1/2004 3.0-5.0 ft. Result	VQ	AA2-SB026 11/8/2004 3.0-5.0 ft. Result	VQ	AA2-SB026 11/8/2004 8.0-10.0 ft. Result	VQ
Metals																									
Aluminum	SW6010B	12500	15500	7600	mg/Kg	7830		8740		9230		12300		10400		9210		6480		9550		11200		10600	
Antimony	SW6010B	1.67	9.3	3.1	mg/Kg	0.973	J	0.701	U	1.36	J	0.776	U	1.4	J	0.813	UJ	0.637	UJ	1.14	J	0.986	J	0.739	U
Arsenic	SW6010B	15.5	36.5	0.39	mg/Kg	7.08	J	4.94	J	11.8	J	0.641	U	12.2		4.68		5.56		7.83		8.25		5.58	
Barium	SW6010B	111	826	540	mg/Kg	50.8		48		111		72.5		75.6		66.6		67.4		58.5		63.7		63.4	
Beryllium	SW6010B	0.626	1	15	mg/Kg	0.324	J	0.342	J	0.528		0.464	J	0.56		0.414	J	0.217	J	0.432	J	0.409	J	0.379	J
Cadmium	SW6010B	0.782		3.7	mg/Kg	0.54	J	0.375	J	0.584	J	0.317	J	0.782		0.381	J	0.395	J	0.41	J	0.273	J	0.292	J
Calcium	SW6010B	62700	52300		mg/Kg	14500		55800		5700		44800		7260		58900		43400		17000		11000		56700	
Chromium	SW6010B	31	29		mg/Kg	20.2		14.6		14.2		19.9		17.3		15.4		11.6		16.3		17.4		16.1	
Cobalt	SW6010B	16.3	116	90	mg/Kg	7.13		9.95		16.3		7.6		8.68		14.5		6.13		9.6		8.77		8.78	
Copper	SW6010B	31.3	56.2	310	mg/Kg	13.9	J	23.3	J	18.3	J	20.3	J	17.6		23.2		14		20.7		21.1		23	
Iron	SW6010B	41800	234000	2300	mg/Kg	19400		21000		26800		22900		41800		25900		18900		22200		22400		23800	
Lead	SW6010B	40.6	48.6	40	mg/Kg	15.6		12		13		9.95		11.2		12.7		40.6		22.7		10.6		12	
Magnesium	SW6010B	22000	10400		mg/Kg	5460		17800		3190		13000		4200		16700		7300		3340		6000		19700	
Manganese	SW6010B	1270	3506.2	180	mg/Kg	316		451		1270		347		369		513		386		423		433		388	
Mercury	SW7471A	0.274	0.1	2.3	mg/Kg	0.0131	J	0.0182	J	0.0052	U	0.0068	U	0.0097	J	0.0283	J	0.274		0.0831		0.0071	U	0.0153	J
Nickel	SW6010B	35	55.1	160	mg/Kg	18.2		24.9		21.9		24.6		29.8		30.6		15.7		19.7		24.7		23	
Potassium	SW6010B	2180	3390		mg/Kg	664		1620		799		1720	J	1080		1760		1110		695		1380		2000	
Selenium	SW6010B	1.12	2	39	mg/Kg	1.23	U	2.53	U	1.12	J	2.81	U	1.13	U	2.94	U	2.3	U	2.22	U	1.26	U	1.34	U
Silver	SW6010B	0.359	11.1	39	mg/Kg	0.0998	U	0.103	U	0.082	U	0.114	U	0.0917	U	0.275	J	0.146	J	0.101	J	0.103	U	0.109	U
Sodium	SW6010B	172			mg/Kg	63.7	J	145	J	46	J	172		53.4	J	134	J	83.6	J	44.7	J	80.1	J	126	J
Thallium	SW6010B	18.2	1.3	0.52	mg/Kg	**5.03**	**J**	1.07	U	**6.11**	**J**	**2.05**	**J**	**4.3**		1.27	J	**1.4**	**J**	**4.76**		**5.34**		1.13	U
Vanadium	SW6010B	31.8	40.9	7.8	mg/Kg	23.8		20.6		26.9		24.4		29		21.6		20.5		26.3		28.6		26.9	
Zinc	SW6010B	202	321.8	2300	mg/Kg	153	J	52.7	J	45.1	J	60	J	202		57.5		68.8		101		59.2		58.9	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumtive evidence. Bold / shaded values represent PRG exceedances.

Table 4-6 Summary of Metals Detected in Subsurface Soil at Acid Area 2 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB027 10/29/2004 3.0-5.0 ft. Result	VQ	AA2-SB028 11/1/2004 3.0-5.0 ft. Result	VQ	AA2-SB028 11/1/2004 8.0-10.0 ft. Result	VQ
Metals											
Aluminum	SW6010B	12500	15500	7600	mg/Kg	9210		10500		9870	
Antimony	SW6010B	1.67	9.3	3.1	mg/Kg	0.753	J	1.61	J	0.616	UJ
Arsenic	SW6010B	15.5	36.5	0.39	mg/Kg	3.96	J	14.1		3.8	
Barium	SW6010B	111	826	540	mg/Kg	62.6		63.6		46.4	
Beryllium	SW6010B	0.626	1	15	mg/Kg	0.402	J	0.504		0.382	J
Cadmium	SW6010B	0.782		3.7	mg/Kg	0.317	J	0.306	J	0.293	J
Calcium	SW6010B	62700	52300		mg/Kg	3330		8160		53300	
Chromium	SW6010B	31	29		mg/Kg	13.6		18.8		16.8	
Cobalt	SW6010B	16.3	116	90	mg/Kg	7.39		9.54		8.36	
Copper	SW6010B	31.3	56.2	310	mg/Kg	14.3	J	31.3		22	
Iron	SW6010B	41800	234000	2300	mg/Kg	17100		29500		24000	
Lead	SW6010B	40.6	48.6	40	mg/Kg	16.1		15.1		11.8	
Magnesium	SW6010B	22000	10400		mg/Kg	2290		5930		15000	
Manganese	SW6010B	1270	3506.2	180	mg/Kg	142		223		319	
Mercury	SW7471A	0.274	0.1	2.3	mg/Kg	0.0333		0.0116	J	0.0087	J
Nickel	SW6010B	35	55.1	160	mg/Kg	17.4		28.1		24.2	
Potassium	SW6010B	2180	3390		mg/Kg	813		1190		1710	
Selenium	SW6010B	1.12	2	39	mg/Kg	1.04	U	0.928	U	2.23	U
Silver	SW6010B	0.359	11.1	39	mg/Kg	0.0848	U	0.0756	U	0.24	J
Sodium	SW6010B	172			mg/Kg	37.8	J	86.6	J	125	J
Thallium	SW6010B	18.2	1.3	0.52	mg/Kg	**2.69**	**J**	**4.02**		0.942	U
Vanadium	SW6010B	31.8	40.9	7.8	mg/Kg	20.7		31.6		21.3	
Zinc	SW6010B	202	321.8	2300	mg/Kg	58.2	J	65.8		53.7	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumtive evidence. Bold / shaded values represent PRG exceedances.

Table 4-7 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location	AA2-SB001		AA2-SB002		AA2-SB003		AA2-SB004		AA2-SB005		AA2-SB006		AA2-SB007		AA2-SB008		AA2-SB009	
				Date	04/27/1998		04/28/1998		04/27/1998		04/27/1998		04/28/1998		04/28/1998		04/28/1998		04/28/1998		04/28/1998	
				Depth	6.0-8.0 ft.		2.0-4.0 ft.		4.0-6.0 ft.		8.0-10.0 ft.		4.0-6.0 ft.		4.0-5.5 ft.		4.0-6.0 ft.		6.0-8.0 ft.		4.0-6.0 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																						
Acetone	SW8260	5000	1400000	ug/Kg	25	U	18	J	32		24	U	29		1600	D	3500	D	750	J	2100	D
Methylene Chloride	SW8260	20	9100	ug/Kg	6.2	U	6.4	U	2.5	J	6.1	U	6.1	U	6.6	J	12	U	6.4	U	6.2	U
Toluene	SW8260	2.2	66000	ug/Kg	2.2	J	6.4	U	6.2	U	1.4	J	6.1	U	12	U	12	U	6.4	U	6.2	U
Xylenes, Total	SW8260	3.4	27000	ug/Kg	3.4	J	6.4	U	1.6	J	6.1	UJ	6.1	U	12	U	12	U	6.4	U	6.2	U
Semivolatile Organic Compounds																						
Anthracene	SW8270	57	2200000	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Benzo(a)anthracene	SW8270	110	620	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Benzo(a)pyrene	SW8270	110	62	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Benzo(b)fluoranthene	SW8270	95	620	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Benzo(g,h,i)perylene	SW8270	37		ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Benzo(k)fluoranthene	SW8270	120	6200	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Chrysene	SW8270	120	62000	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Di-n-butylphthalate	SW8270	47	610000	ug/Kg	47	J	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Fluoranthene	SW8270	210	230000	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Indeno(1,2,3-cd)pyrene	SW8270	45	620	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Phenanthrene	SW8270	71		ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
Pyrene	SW8270	170	230000	ug/Kg	410	U	420	U	410	U	400	U	400	U	400	U	410	U	420	U	410	U
bis(2-Ethylhexyl)phthalate	SW8270	58	35000	ug/Kg	51	J	420	U	410	U	49	J	400	U	400	U	410	U	420	U	410	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Table 4-7 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA2-SB010 04/28/1998 8.0-10.0 ft. Result	VQ	AA2-SB011 04/28/1998 2.0-4.0 ft. Result	VQ	AA2-SB012 04/28/1998 6.0-8.0 ft. Result	VQ	AA2-SB013 04/27/1998 2.0-4.0 ft. Result	VQ	AA2-SB014 04/27/1998 4.0-6.0 ft. Result	VQ	AA2-SB015 04/27/1998 2.0-4.0 ft. Result	VQ
Volatile Organic Compounds																
Acetone	SW8260	5000	1400000	ug/Kg	5000	J	25	U	320		24	U	25	U	24	U
Methylene Chloride	SW8260	20	9100	ug/Kg	20	J	6.1	U	6.3	U	2.3	J	6.2	U	6.1	U
Toluene	SW8260	2.2	66000	ug/Kg	63	U	6.1	U	6.3	U	6	U	6.2	U	6.1	U
Xylenes, Total	SW8260	3.4	27000	ug/Kg	63	U	6.1	U	6.3	U	6	U	6.2	U	6.1	U
Semivolatile Organic Compounds																
Anthracene	SW8270	57	2200000	ug/Kg	420	U	400	U	420	U	57	J	410	U	400	U
Benzo(a)anthracene	SW8270	110	620	ug/Kg	420	U	400	U	420	U	110	J	410	U	400	U
Benzo(a)pyrene	SW8270	110	62	ug/Kg	420	U	400	U	420	U	**110**	**J**	410	U	400	U
Benzo(b)fluoranthene	SW8270	95	620	ug/Kg	420	U	400	U	420	U	95	J	410	U	400	U
Benzo(g,h,i)perylene	SW8270	37		ug/Kg	420	U	400	U	420	U	37	J	410	U	400	U
Benzo(k)fluoranthene	SW8270	120	6200	ug/Kg	420	U	400	U	420	U	120	J	410	U	400	U
Chrysene	SW8270	120	62000	ug/Kg	420	U	400	U	420	U	120	J	410	U	400	U
Di-n-butylphthalate	SW8270	47	610000	ug/Kg	420	U	400	U	420	U	390	U	410	U	400	U
Fluoranthene	SW8270	210	230000	ug/Kg	420	U	400	U	420	U	210	J	410	U	400	U
Indeno(1,2,3-cd)pyrene	SW8270	45	620	ug/Kg	420	U	400	U	420	U	45	J	410	U	400	U
Phenanthrene	SW8270	71		ug/Kg	420	U	400	U	420	U	71	J	410	U	400	U
Pyrene	SW8270	170	230000	ug/Kg	420	U	400	U	420	U	170	J	410	U	400	U
bis(2-Ethylhexyl)phthalate	SW8270	58	35000	ug/Kg	420	U	400	U	420	U	51	J	58	J	41	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Table 4-8 Summary of Metals Detected in Subsurface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location / Date / Depth / Units	AA2-SB001 04/27/1998 6.0-8.0 ft.		AA2-SB002 04/28/1998 2.0-4.0 ft.		AA2-SB003 04/27/1998 4.0-6.0 ft.		AA2-SB004 04/27/1998 8.0-10.0 ft.		AA2-SB005 04/28/1998 4.0-6.0 ft.		AA2-SB006 04/28/1998 4.0-5.5 ft.		AA2-SB007 04/28/1998 4.0-6.0 ft.		AA2-SB008 04/28/1998 6.0-8.0 ft.		AA2-SB009 04/28/1998 4.0-6.0 ft.		AA2-SB010 04/28/1998 8.0-10.0 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																									
Aluminum	SW6010	14200	15500	7600	mg/Kg	9550		12800		10900		12700		13100		11100		9690		10800		12800		8660	
Arsenic	SW6010	16.5	36.5	0.39	mg/Kg	6.7		8		10.4		9.1		8.9		9.6		13.9		5.6		4.2		10.4	
Barium	SW6010	107	826	540	mg/Kg	57.4		63.7		65.1		69.2		68.1		65.2		59.2		59.4		57.5		107	
Beryllium	SW6010	0.8	1	15	mg/Kg	0.62	U	0.69		0.62	U	0.7		0.64		0.61	U	0.62	U	0.64	U	0.62		0.63	U
Cadmium	SW6010	0.77		3.7	mg/Kg	0.62	U	0.64	U	0.62	U	0.61	U	0.61	U	0.61	U	0.62	U	0.64	U	0.62	U	0.63	U
Calcium	SW6010	63000	52300		mg/Kg	47900		7150	J	57200		44600		3910	J	63000	J	54000	J	55300	J	55300	J	58100	J
Chromium	SW6010	21.4	29		mg/Kg	13.8		20.3		16.2		19.8		19.9		17.2		15.6		16.9		19.3		13.1	
Cobalt	SW6010	17.3	116	90	mg/Kg	12.5		12.9		11		12.9		10.3		10.9		10.2		9.3		11.6		12.6	
Copper	SW6010	27.5	56.2	310	mg/Kg	21.6		22.8		23		27.3		14.8		26.5		24.4		22.5		24.1		23.1	
Iron	SW6010	27300	234000	2300	mg/Kg	21300		24300		21400		24100		25700		23500		23500		20300		21900		21600	
Lead	SW6010	113	48.6	40	mg/Kg	8		9.7		10.5		12.5		10.2		10.6		9		9.7		10.4		10	
Magnesium	SW6010	18800	10400		mg/Kg	15200		7010		16800		18800		4420		14800		16900		17200		15000		16900	
Manganese	SW6010	889	3506.2	180	mg/Kg	889		322		479		299		138		360		507		309		465		713	
Mercury	SW7471	0.047	0.1	2.3	mg/Kg	0.041	U	0.042	U	0.041	U	0.04	U	0.047		0.04	U	0.041	U	0.042	U	0.041	U	0.042	U
Nickel	SW6010	39.2	55.1	160	mg/Kg	24.4		28.8		27.8		32.9		22.9		23.8		29.2		23.3		27.1		28.1	
Potassium	SW6010	2890	3390		mg/Kg	2160		1690		2300		2890		2230		1800		1710		2120		2640		2010	
Selenium	SW6010	1.5	2	39	mg/Kg	0.62	U	0.64	U	0.62	U	1.5		0.61	U	0.61	U	0.62	U	0.64	U	0.62	U	0.63	U
Vanadium	SW6010	34.7	40.9	7.8	mg/Kg	26.5		25.5		26.1		33.4		24		27.1		26.7		26.8		30		23.5	
Zinc	SW6010	304	321.8	2300	mg/Kg	58.1		75.9	J	68		71.7		84.3	J	68.1	J	61.8	J	65.2	J	69.2	J	56.7	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-8 Summary of Metals Detected in Subsurface Soil at Acid Area 2 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA2-SB011 04/28/1998 2.0-4.0 ft.		AA2-SB012 04/28/1998 6.0-8.0 ft.		AA2-SB013 04/27/1998 2.0-4.0 ft.		AA2-SB014 04/27/1998 4.0-6.0 ft.		AA2-SB015 04/27/1998 2.0-4.0 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals															
Aluminum	SW6010	14200	15500	7600	mg/Kg	14200		11000		8590		13200		9230	
Arsenic	SW6010	16.5	36.5	0.39	mg/Kg	9.5		7		7.2		16.5		7.6	
Barium	SW6010	107	826	540	mg/Kg	78.5		81		89.2		61.9		51	
Beryllium	SW6010	0.8	1	15	mg/Kg	0.8		0.63	U	0.6	U	0.7		0.61	U
Cadmium	SW6010	0.77		3.7	mg/Kg	0.61	U	0.63	U	0.77		0.62	U	0.61	U
Calcium	SW6010	63000	52300		mg/Kg	3980	J	48400	J	25200		56700		24000	
Chromium	SW6010	21.4	29		mg/Kg	21.4		16		19		18.8		14.9	
Cobalt	SW6010	17.3	116	90	mg/Kg	10.3		17.3		9.5		14.6		9.6	
Copper	SW6010	27.5	56.2	310	mg/Kg	23.4		26.2		17.4		27.5		17.7	
Iron	SW6010	27300	234000	2300	mg/Kg	27300		24200		19600		25200		19100	
Lead	SW6010	113	48.6	40	mg/Kg	11.8		12.2		**113**		11.7		7.9	
Magnesium	SW6010	18800	10400		mg/Kg	4120		18100		5340		16700		12500	
Manganese	SW6010	889	3506.2	180	mg/Kg	253		644		415		373		285	
Mercury	SW7471	0.047	0.1	2.3	mg/Kg	0.04	U	0.042	U	0.039	U	0.041	U	0.04	U
Nickel	SW6010	39.2	55.1	160	mg/Kg	25.4		39.2		20.6		27.3		20.4	
Potassium	SW6010	2890	3390		mg/Kg	1330		2430		1120		2730		1150	
Selenium	SW6010	1.5	2	39	mg/Kg	0.61	U	0.63	U	0.6	U	0.62	U	0.61	U
Vanadium	SW6010	34.7	40.9	7.8	mg/Kg	32.2		28.1		21.4		34.7		24.2	
Zinc	SW6010	304	321.8	2300	mg/Kg	63.7	J	68.8	J	304		69		73.9	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-9 Summary of Organic Compounds Detected in Surface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location	AA3-SB016		AA3-SB017		AA3-SB017 (field dup)		AA3-SB018		AA3-SB019		AA3-SB020		AA3-SB021		AA3-SB022		AA3-SB023	
				Date	11/5/2004		11/9/2004		11/9/2004		11/4/2004		11/9/2004		11/4/2004		11/9/2004		11/4/2004		11/9/2004	
				Depth	0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																						
2-Butanone (Methyl ethyl ketone)	SW8260B	14.3	2200000	ug/Kg	1.19	U	1.1	U	4.62	J	12.3		1.36	U	8.9	J	1.32	U	1.26	U	14.3	
Acetone	SW8260B	154	1400000	ug/Kg	1.75	U	1.61	U	1.51	U	1.92	U	1.99	U	154		1.94	U	1.84	U	1.97	U
Benzene	SW8260B	5.29	640	ug/Kg	0.917	U	0.844	U	0.792	U	3.75	J	4.64	J	2.58	J	5.29	J	0.966	U	1.03	U
Carbon Disulfide	SW8260B	36.2	36000	ug/Kg	1.5	U	1.38	U	1.29	U	36.2		17.2		4.8	J	3.57	J	1.58	U	1.69	U
Cyclohexane	SW8260B	9.76	280000	ug/Kg	1.73	U	1.59	U	1.49	U	6.8		7.64		5.82		9.76		1.82	U	1.95	U
Ethylbenzene	SW8260B	3.06	190000	ug/Kg	0.698	U	0.642	U	0.603	U	1.59	J	3.06	J	1.56	J	2.69	J	0.735	U	0.786	U
Methyl Acetate	SW8260B	30	2200000	ug/Kg	3.66	UJ	3.37	UJ	3.16	UJ	4.02	UJ	4.16	UJ	3.55	UJ	4.05	UJ	3.85	UJ	4.12	UJ
Methylcyclohexane	SW8260B	10.9	260000	ug/Kg	0.807	U	1.6	J	0.741	J	7.99		10.1		6.55		10.9		0.85	U	1.82	J
Toluene	SW8260B	12.2	66000	ug/Kg	0.822	U	1.61	J	0.71	U	7.4		12.2		5.52		11.3		0.867	U	2.28	J
Xylenes, Total	SW8260B	7.68	27000	ug/Kg	1.17	U	1.08	U	1.01	U	4.56	J	7.68		3.81	J	7.48		1.24	U	1.32	U
Semivolatile Organic Compounds																						
2-Methylnaphthalene	SW8270C	106		ug/Kg	29.7	U	29.4	U	30.8	U	29	U	30.7	U	30.3	U	29	U	80.2	J	155	U
Acenaphthylene	SW8270C	185		ug/Kg	41.5	U	41.1	U	43	U	40.6	U	42.9	U	42.3	U	185	J	168	J	216	U
Anthracene	SW8270C	235	2200000	ug/Kg	30.3	U	30	U	31.4	U	29.6	U	31.2	U	143	J	235	J	77.2	J	158	U
Benzaldehyde	SW8270C	94.3	610000	ug/Kg		UR		UR		UR		UR		UR		UR		UR		UR		UR
Benzo(a)anthracene	SW8270C	408	620	ug/Kg	21.9	U	21.6	U	22.6	U	247	J	22.6	U	408		405		358	J	114	U
Benzo(a)pyrene	SW8270C	541	62	ug/Kg	29.6	U	29.3	U	**63.8**	**J**	**249**	**J**	30.5	U	**364**	**J**	**358**	**J**	**541**		154	U
Benzo(b)fluoranthene	SW8270C	508	620	ug/Kg	28.2	U	59.3	J	88.4	J	244	J	29.1	U	329	J	376		508		147	U
Benzo(g,h,i)perylene	SW8270C	486		ug/Kg	26.9	U	26.6	U	106	J	151	J	27.7	U	207	J	486		320	J	375	J
Benzo(k)fluoranthene	SW8270C	491	6200	ug/Kg	32	U	31.7	U	33.1	U	314	J	33	U	400		269	J	491		167	U
Benzyl butyl phthalate	SW8270C	637	1200000	ug/Kg	147	U	145	U	637	J	143	U	152	U	390		143	U	149	U	765	U
Chrysene	SW8270C	481	62000	ug/Kg	17.3	U	17.1	U	82.9	J	298	J	17.9	U	453		481		419		90.1	U
Di-n-butylphthalate	SW8270C	464	610000	ug/Kg	460	U	455	U	476	U	449	U	474	U	469	U	464	J	466	U	2390	U
Dibenz(a,h)anthracene	SW8270C	193	62	ug/Kg	22.5	U	22.3	U	23.3	U	22	U	23.3	U	**76.7**	**J**	**193**	**J**	**100**	**J**	117	U
Fluoranthene	SW8270C	829	230000	ug/Kg	18.8	U	18.6	U	100	J	378		19.4	U	798		829		396		97.8	U
Fluorene	SW8270C	69.5	270000	ug/Kg	11	U	10.9	U	11.4	U	10.8	U	11.4	U	11.2	U	69.5	J	11.2	U	57.4	U
Indeno(1,2,3-cd)pyrene	SW8270C	689	620	ug/Kg	28.2	U	27.9	U	99.4	J	128	J	29.1	U	205	J	**689**		272	J	147	U
Naphthalene	SW8270C	78.6	5600	ug/Kg	10.8	U	10.7	U	11.2	U	10.5	U	11.1	U	11	U	10.5	U	59.7	J	56.1	U
Phenanthrene	SW8270C	421		ug/Kg	21.1	U	20.8	U	21.8	U	86.1	J	21.7	U	245	J	421		124	J	110	U
Pyrene	SW8270C	611	230000	ug/Kg	16.3	U	16.1	U	80.3	J	323	J	16.8	U	611		600		385		84.8	U
bis(2-Ethylhexyl)phthalate	SW8270C	524	35000	ug/Kg	376	U	372	U	389	U	367	U	388	U	383	U	366	U	381	U	1960	U
Polychlorinated Biphenyls (PCBs)																						
PCB-1254 (Aroclor 1254)	SW8082	4180	220	ug/Kg	17.9	U	**247**	**J**	**268**	**J**	**558**	**J**	**4180**	**J**	**1060**	**J**	**3560**	**J**	**1240**	**J**	**581**	**J**
PCB-1260 (Aroclor 1260)	SW8082	4660	220	ug/Kg	18.5	J	**579**	**J**	**765**	**J**	**782**	**J**	**4660**	**J**	**1640**		**3160**		**1910**		**626**	**J**

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-9 Summary of Organic Compounds Detected in Surface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location	AA3-SB024		AA3-SB025		AA3-SB026		AA3-SB027		AA3-SB028		AA3-SB029	
				Date	11/5/2004		11/5/2004		11/8/2004		11/8/2004		11/8/2004		11/8/2004	
				Depth	0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.		0.5-1.5 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																
2-Butanone (Methyl ethyl ketone)	SW8260B	14.3	2200000	ug/Kg	1.08	U	1.24	U	5.59	J	1.22	U	1.16	U	1.13	U
Acetone	SW8260B	154	1400000	ug/Kg	1.58	U	1.81	U	1.75	U	1.78	U	1.7	U	1.65	U
Benzene	SW8260B	5.29	640	ug/Kg	0.83	U	4.61	J	0.918	U	0.933	U	0.893	U	0.865	U
Carbon Disulfide	SW8260B	36.2	36000	ug/Kg	1.36	U	1.55	U	1.5	U	1.52	U	1.6	J	1.41	U
Cyclohexane	SW8260B	9.76	280000	ug/Kg	1.56	U	8.22		1.73	U	1.76	U	1.68	U	1.63	U
Ethylbenzene	SW8260B	3.06	190000	ug/Kg	0.631	U	2.56	J	0.699	U	0.71	U	0.68	U	0.658	U
Methyl Acetate	SW8260B	30	2200000	ug/Kg	3.31	UJ	3.79	UJ	3.66	UJ	3.72	UJ	14.2	J	30	J
Methylcyclohexane	SW8260B	10.9	260000	ug/Kg	0.73	U	9.29		0.808	U	0.821	U	1.44	J	0.761	U
Toluene	SW8260B	12.2	66000	ug/Kg	0.744	U	10.8		0.824	U	0.837	U	0.801	U	0.776	U
Xylenes, Total	SW8260B	7.68	27000	ug/Kg	1.06	U	7.2		1.18	U	1.19	U	1.14	U	1.11	U
Semivolatile Organic Compounds																
2-Methylnaphthalene	SW8270C	106		ug/Kg	29.9	U	30	U	30.8	U	106	J	30.3	U	30.1	U
Acenaphthylene	SW8270C	185		ug/Kg	41.9	U	41.9	U	43	U	44.1	U	42.3	U	42.1	U
Anthracene	SW8270C	235	2200000	ug/Kg	30.5	U	30.6	U	31.4	U	32.1	U	30.8	U	30.7	U
Benzaldehyde	SW8270C	94.3	610000	ug/Kg		UR		UR		UR	94.3	J		UR		UR
Benzo(a)anthracene	SW8270C	408	620	ug/Kg	22	U	22.1	U	22.6	U	97.1	J	72	J	22.1	U
Benzo(a)pyrene	SW8270C	541	62	ug/Kg	29.8	U	29.9	U	30.7	U	**63.8**	**J**	**69.2**	**J**	30	U
Benzo(b)fluoranthene	SW8270C	508	620	ug/Kg	28.5	U	28.5	U	29.2	U	127	J	107	J	28.6	U
Benzo(g,h,i)perylene	SW8270C	486		ug/Kg	74.5	J	27.1	U	27.8	U	28.5	U	97.9	J	27.2	U
Benzo(k)fluoranthene	SW8270C	491	6200	ug/Kg	32.2	U	32.3	U	33.1	U	67.7	J	72	J	32.4	U
Benzyl butyl phthalate	SW8270C	637	1200000	ug/Kg	535		148	U	152	U	560		150	U	149	U
Chrysene	SW8270C	481	62000	ug/Kg	17.4	U	17.5	U	17.9	U	108	J	107	J	17.5	U
Di-n-butylphthalate	SW8270C	464	610000	ug/Kg	463	U	464	U	476	U	488	U	468	U	466	U
Dibenz(a,h)anthracene	SW8270C	193	62	ug/Kg	22.7	U	22.7	U	23.4	U	23.9	U	23	U	22.8	U
Fluoranthene	SW8270C	829	230000	ug/Kg	59.6	J	19	U	19.5	U	87.6	J	139	J	19	U
Fluorene	SW8270C	69.5	270000	ug/Kg	11.1	U	11.1	U	11.4	U	11.7	U	11.2	U	11.2	U
Indeno(1,2,3-cd)pyrene	SW8270C	689	620	ug/Kg	61.3	J	28.5	U	29.2	U	30	U	91.4	J	28.6	U
Naphthalene	SW8270C	78.6	5600	ug/Kg	10.9	U	10.9	U	11.2	U	78.6	J	11	U	10.9	U
Phenanthrene	SW8270C	421		ug/Kg	21.2	U	21.3	U	21.8	U	85.3	J	21.4	U	21.3	U
Pyrene	SW8270C	611	230000	ug/Kg	74	J	16.4	U	16.9	U	77.8	J	121	J	16.5	U
bis(2-Ethylhexyl)phthalate	SW8270C	524	35000	ug/Kg	379	U	379	U	524		399	U	383	U	381	U
Polychlorinated Biphenyls (PCBs)																
PCB-1254 (Aroclor 1254)	SW8082	4180	220	ug/Kg	83.4	U	88.5	U	45.8	J	17.5	U	17.7	U	18.6	U
PCB-1260 (Aroclor 1260)	SW8082	4660	220	ug/Kg	148	J	140	J	61	J	28.3	J	21.1	J	5.18	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-10 Summary of Metals
Detected in Surface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB016 11/5/2004 0.5-1.5 ft. Result	VQ	AA3-SB017 11/9/2004 0.5-1.5 ft. Result	VQ	AA3-SB017 (field dup) 11/9/2004 0.5-1.5 ft. Result	VQ	AA3-SB018 11/4/2004 0.5-1.5 ft. Result	VQ	AA3-SB019 11/9/2004 0.5-1.5 ft. Result	VQ	AA3-SB020 11/4/2004 0.5-1.5 ft. Result	VQ	AA3-SB021 11/9/2004 0.5-1.5 ft. Result	VQ	AA3-SB022 11/4/2004 0.5-1.5 ft. Result	VQ	AA3-SB023 11/9/2004 0.5-1.5 ft. Result	VQ
Metals																							
Aluminum	SW6010B	14000	15500	7600	mg/Kg	6140		2430		9220		7540		8090		8840		7940		6520		7010	
Antimony	SW6010B	2.28	9.3	3.1	mg/Kg	0.673	J	3.14	UJ	0.808	UJ	0.492	UJ	0.753	UJ	2.28	J	0.61	UJ	0.829	J	0.8	UJ
Arsenic	SW6010B	13.3	36.5	0.39	mg/Kg	3.09		7	J	11.8		5.09		11.3		7.15		13.3		4.32		6.62	
Barium	SW6010B	80.1	826	540	mg/Kg	31.5		18.1	J	62.3	J	45		55.4	J	68.6		80.1	J	43.9		61.4	J
Beryllium	SW6010B	0.902	1	15	mg/Kg	0.171	J	0.298	J	0.606		0.0454	U	0.479	J	0.0657	U	0.59		0.0644	U	0.468	J
Cadmium	SW6010B	0.674		3.7	mg/Kg	0.189	J	0.418	J	0.579	J	0.0378	U	0.541	J	0.0547	U	0.674		0.0536	U	0.425	J
Calcium	SW6010B	291000	52300		mg/Kg	2290		291000		10500		21000	J	54500		14300	J	39300		7610	J	6220	
Chromium	SW6010B	19.6	29		mg/Kg	7.91	J	5.9		14.2		11.1		14		14.4		13.9		8.84		11.6	
Cobalt	SW6010B	11.5	116	90	mg/Kg	5.18		1.9	J	9.04	J	8.63		10.2	J	7.02		11.5	J	5.96		6.03	J
Copper	SW6010B	23.4	56.2	310	mg/Kg	7.33	J	8.06	J	20		13.4		21		17.6		21.3		7.27		18.9	
Iron	SW6010B	26000	234000	2300	mg/Kg	10200		7460		22900		16700		21800		19900		22100		12200		13800	
Lead	SW6010B	653	48.6	40	mg/Kg	20.7	J	8.15		33.8		11.8		30.5		23.6		27.2		39.4		**653**	
Magnesium	SW6010B	30600	10400		mg/Kg	1460		30600		3460		6770	J	15700		5250	J	13100		2010	J	2210	
Manganese	SW6010B	766	3506.2	180	mg/Kg	191		338	J	276	J	429	J	466	J	334	J	766	J	294	J	639	J
Mercury	SW7471A	0.0385	0.1	2.3	mg/Kg	0.0076	J	0.0252	J	0.0231	J	0.0128	J	0.0144	J	0.0257	J	0.0241	J	0.0174	J	0.0385	J
Nickel	SW6010B	28.3	55.1	160	mg/Kg	10.5	J	7.71	J	21.3	J	16.4		27.2	J	17.7		28.3	J	9.08		11.8	J
Potassium	SW6010B	1190	3390		mg/Kg	370		647	J	949	J	618	J	1160	J	737	J	950	J	362	J	497	J
Selenium	SW6010B	1.75	2	39	mg/Kg	1.14	U	2.27	U	1.46	U	1.78	U	1.36	U	1.41	J	1.1	U	1.75	J	1.45	U
Sodium	SW6010B	180			mg/Kg	27.6	J	180	J	47.7	J	63.3	J	106	J	50.6	J	87.3	J	38.8	J	51.9	J
Thallium	SW6010B	5.11	1.3	0.52	mg/Kg	**2.83**		4.81	U	1.24	U	**2.94**		1.15	U	**5.11**		0.934	U	**4.74**		1.22	U
Vanadium	SW6010B	31.1	40.9	7.8	mg/Kg	13.7		9.06	J	25.7	J	20		21.4	J	24.1		24.7	J	16.4		17.5	J
Zinc	SW6010B	124	321.8	2300	mg/Kg	35	J	6.48	J	91.3	J	35.2		58.2	J	56.4		53.4	J	29		39.3	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-10 Summary of Metals Detected in Surface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB024 11/5/2004 0.5-1.5 ft. Result	VQ	AA3-SB025 11/5/2004 0.5-1.5 ft. Result	VQ	AA3-SB026 11/8/2004 0.5-1.5 ft. Result	VQ	AA3-SB027 11/8/2004 0.5-1.5 ft. Result	VQ	AA3-SB028 11/8/2004 0.5-1.5 ft. Result	VQ	AA3-SB029 11/8/2004 0.5-1.5 ft. Result	VQ
Metals																	
Aluminum	SW6010B	14000	15500	7600	mg/Kg	3570		9870		5590		10100		7140		14000	
Antimony	SW6010B	2.28	9.3	3.1	mg/Kg	0.683	U	1.02	J	0.799	UJ	0.666	J	0.752	UJ	0.994	J
Arsenic	SW6010B	13.3	36.5	0.39	mg/Kg	2.29	J	5.62		3.9	J	8.54	J	5.15	J	8.92	J
Barium	SW6010B	80.1	826	540	mg/Kg	22.8		48.4		24.2		56.3		75.5		70.4	
Beryllium	SW6010B	0.902	1	15	mg/Kg	0.0998	J	0.421		0.106	J	0.396		0.256	J	0.902	
Cadmium	SW6010B	0.674		3.7	mg/Kg	0.158	J	0.223	J	0.106	J	0.313	J	0.653		0.322	J
Calcium	SW6010B	291000	52300		mg/Kg	6820		6540		1210	J	12900	J	25200	J	6550	J
Chromium	SW6010B	19.6	29		mg/Kg	5.48	J	16.1	J	7.29		15.7		11.4		19.6	
Cobalt	SW6010B	11.5	116	90	mg/Kg	2.92		5.43		2.92		6.92		5.67		10.6	
Copper	SW6010B	23.4	56.2	310	mg/Kg	3.95	J	15.2	J	4.24		15.6		16.5		23.4	
Iron	SW6010B	26000	234000	2300	mg/Kg	7960		18600		9590		20000		16200		26000	
Lead	SW6010B	653	48.6	40	mg/Kg	25.2	J	15.1	J	5.79		17.4		**129**		14.5	
Magnesium	SW6010B	30600	10400		mg/Kg	1710		3240		864	J	4340	J	6410	J	4640	J
Manganese	SW6010B	766	3506.2	180	mg/Kg	181		163		144	J	263	J	328	J	261	J
Mercury	SW7471A	0.0385	0.1	2.3	mg/Kg	0.0047	U	0.0096	J	0.0134	J	0.0244	J	0.0266	J	0.0298	J
Nickel	SW6010B	28.3	55.1	160	mg/Kg	7.05	J	16.8	J	5.38		19.1		16		27	
Potassium	SW6010B	1190	3390		mg/Kg	292		482		251	J	1190	J	792	J	1020	J
Selenium	SW6010B	1.75	2	39	mg/Kg	1.23	U	0.935	U	1.44	U	0.982	U	1.36	U	1.38	U
Sodium	SW6010B	180			mg/Kg	35.2	J	34.9	J	34.4	J	59.3	J	56.2	J	56.4	J
Thallium	SW6010B	5.11	1.3	0.52	mg/Kg	**4.14**		**3.42**		**1.84**	**J**	**4.07**		**4.91**		**4.64**	
Vanadium	SW6010B	31.1	40.9	7.8	mg/Kg	10.7		23.3		15.9		28.1		19.8		31.1	
Zinc	SW6010B	124	321.8	2300	mg/Kg	28.7	J	39.2	J	17.8		65.8		124		72.7	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-11 Summary of Organic Compounds Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location	AA3-SB001		AA3-SB001 (field dup)		AA3-SB002		AA3-SB003		AA3-SB004		AA3-SB005		AA3-SB006		AA3-SB007		AA3-SB008	
				Date	05/03/1998		05/03/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998	
				Depth	0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																						
Acetone	SW8260	7.4	1400000	ug/Kg	24	U	24	U	26	U	23	U	24	U	24	U	24	U	23	U	24	U
Methylene Chloride	SW8260	6.9	9100	ug/Kg	6	U	5.9	U	6.5	U	5.8	U	6	U	6.1	U	6.1	U	5.8	U	5.9	U
Toluene	SW8260	8	66000	ug/Kg	6	U	5.9	U	8		5.8	U	6	U	6.1	U	6.1	U	5.8	U	5.9	U
Semivolatile Organic Compounds																						
2,4-Dinitrotoluene	SW8270	5600	12000	ug/Kg	5600		2600		430	U	380	U	390	U	400	U	400	U	390	U	390	U
2,6-Dinitrotoluene	SW8270	870	6100	ug/Kg	870		400		430	U	380	U	390	U	400	U	400	U	390	U	390	U
2-Methylnaphthalene	SW8270	240		ug/Kg	240	J	170	J	430	U	380	U	390	U	400	U	400	U	390	U	390	U
Acenaphthene	SW8270	52	370000	ug/Kg	400	U	390	U	430	U	380	U	390	U	400	U	400	U	390	U	51	J
Acenaphthylene	SW8270	750		ug/Kg	400	U	390	U	76	J	380	U	390	U	400	U	400	U	390	U	730	
Anthracene	SW8270	790	2200000	ug/Kg	400	U	48	J	120	J	380	U	390	U	400	U	400	U	390	U	630	
Benzo(a)anthracene	SW8270	3500	620	ug/Kg	59	J	130	J	410	J	380	U	390	U	400	U	400	U	390	U	**2100**	
Benzo(a)pyrene	SW8270	3300	62	ug/Kg	**63**	**J**	**120**	**J**	**370**	**J**	26	J	390	U	400	U	400	U	390	U	**2200**	
Benzo(b)fluoranthene	SW8270	3400	620	ug/Kg	68	J	130	J	420	J	380	U	390	U	400	U	400	U	390	U	**2400**	
Benzo(g,h,i)perylene	SW8270	1300		ug/Kg	41	J	54	J	250	J	380	U	390	U	400	U	400	U	390	U	1100	
Benzo(k)fluoranthene	SW8270	3300	6200	ug/Kg	82	J	110	J	300	J	380	U	390	U	400	U	400	U	390	U	1400	
Carbazole	SW8270	200	24000	ug/Kg	400	U	390	U	430	U	380	U	390	U	400	U	400	U	390	U	120	J
Chrysene	SW8270	3400	62000	ug/Kg	91	J	140	J	410	J	380	U	390	U	400	U	400	U	390	U	2200	
Dibenz(a,h)anthracene	SW8270	31	62	ug/Kg	24	J	31	J	430	U	380	U	390	U	400	U	400	U	390	U	390	U
Dibenzofuran	SW8270	61	15000	ug/Kg	400	U	390	U	430	U	380	U	390	U	400	U	400	U	390	U	61	J
Fluoranthene	SW8270	5500	230000	ug/Kg	87	J	240	J	700		44	J	390	U	400	U	400	U	390	U	4600	
Fluorene	SW8270	190	270000	ug/Kg	400	U	20	J	430	U	380	U	390	U	400	U	400	U	390	U	140	J
Indeno(1,2,3-cd)pyrene	SW8270	1400	620	ug/Kg	43	J	55	J	240	J	380	U	390	U	400	U	400	U	390	U	**1200**	
Naphthalene	SW8270	61	5600	ug/Kg	61	J	45	J	430	U	380	U	390	U	400	U	400	U	390	U	390	U
Phenanthrene	SW8270	2400		ug/Kg	96	J	200	J	250	J	380	U	390	U	400	U	400	U	390	U	1100	
Pyrene	SW8270	4600	230000	ug/Kg	83	J	210	J	510		39	J	390	U	400	U	400	U	390	U	3500	
bis(2-Ethylhexyl)phthalate	SW8270	120	35000	ug/Kg	120	J	61	J	430	U	380	U	390	U	400	U	55	J	41	J	390	U
Explosives																						
2,4-Dinitrotoluene	SW8330	1300	12000	ug/Kg	810		1300		250	U												
Polychlorinated Biphenyls (PCBs)																						
PCB-1260 (Aroclor 1260)	SW8081	3200	220	ug/Kg	**3200**		**1100**	**AP**	**850**		38	U	84		40	U	40	U	39	U	160	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound . Bold / shaded values represent PRG exceedances.

Table 4-11 Summary of Organic Compounds Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location	AA3-SB009		AA3-SB010		AA3-SB011		AA3-SB012		AA3-SB013		AA3-SB014		AA3-SB015		MNT-SB01		(field dup)		MNT-SB02	
				Date	05/02/1998		05/02/1998		04/30/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/03/1998		05/03/1998		05/02/1998	
				Depth	0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.		0.0-1.0 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																								
Acetone	SW8260	7.4	1400000	ug/Kg	24	U	23	U	24	U	25	U	7.4	J	24	U	24	U	24	U	24	U	24	U
Methylene Chloride	SW8260	6.9	9100	ug/Kg	5.9	U	5.7	U	6	U	6.2	U	5.9	U	6	U	6	U	6	U	6	U	5.9	U
Toluene	SW8260	8	66000	ug/Kg	5.9	U	5.7	U	6	U	6.2	U	5.9	U	6	U	6	U	6	U	6	U	5.9	U
Semivolatile Organic Compounds																								
2,4-Dinitrotoluene	SW8270	5600	12000	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
2,6-Dinitrotoluene	SW8270	870	6100	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
2-Methylnaphthalene	SW8270	240		ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Acenaphthene	SW8270	52	370000	ug/Kg	390	U	52	J	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Acenaphthylene	SW8270	750		ug/Kg	390	U	750		400	U	120	J	390	U	400	U	400	U	400	U	390	U	390	U
Anthracene	SW8270	790	2200000	ug/Kg	390	U	790		400	U	120	J	390	U	40	J	400	U	400	U	390	U	390	U
Benzo(a)anthracene	SW8270	3500	620	ug/Kg	390	U	**3500**		400	U	280	J	390	U	110	J	400	U	400	U	390	U	390	U
Benzo(a)pyrene	SW8270	3300	62	ug/Kg	27	J	**3300**		400	U	**280**	**J**	390	U	**100**	**J**	400	U	400	U	390	U	390	U
Benzo(b)fluoranthene	SW8270	3400	620	ug/Kg	390	U	**3400**		400	U	280	J	390	U	83	J	400	U	400	U	390	U	390	U
Benzo(g,h,i)perylene	SW8270	1300		ug/Kg	390	U	1300		400	U	160	J	390	U	56	J	400	U	400	U	390	U	390	U
Benzo(k)fluoranthene	SW8270	3300	6200	ug/Kg	390	U	3300		400	U	300	J	390	U	110	J	400	U	400	U	390	U	390	U
Carbazole	SW8270	200	24000	ug/Kg	390	U	200	J	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Chrysene	SW8270	3400	62000	ug/Kg	390	U	3400		400	U	340	J	390	U	110	J	400	U	400	U	390	U	390	U
Dibenz(a,h)anthracene	SW8270	31	62	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Dibenzofuran	SW8270	61	15000	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Fluoranthene	SW8270	5500	230000	ug/Kg	52	J	5500		400	U	800		390	U	260	J	52	J	400	U	390	U	390	U
Fluorene	SW8270	190	270000	ug/Kg	390	U	190	J	400	U	96	J	390	U	400	U	400	U	400	U	390	U	390	U
Indeno(1,2,3-cd)pyrene	SW8270	1400	620	ug/Kg	390	U	**1400**		400	U	160	J	390	U	56	J	400	U	400	U	390	U	390	U
Naphthalene	SW8270	61	5600	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	400	U	390	U	390	U
Phenanthrene	SW8270	2400		ug/Kg	390	U	2400		400	U	580		390	U	150	J	400	U	400	U	390	U	390	U
Pyrene	SW8270	4600	230000	ug/Kg	42	J	4600		400	U	540		390	U	190	J	41	J	400	U	390	U	390	U
bis(2-Ethylhexyl)phthalate	SW8270	120	35000	ug/Kg	390	U	380	U	400	U	410	U	390	U	400	U	400	U	68	J	390	U	390	U
Explosives																								
2,4-Dinitrotoluene	SW8330	1300	12000	ug/Kg																				
Polychlorinated Biphenyls (PCBs)																								
PCB-1260 (Aroclor 1260)	SW8081	3200	220	ug/Kg	39	U	38	U	40	U	41	U	39	U	**390**		40	U	40	U	39	U	63	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound . Bold / shaded values represent PRG exceedances.

Table 4-11 Summary of Organic Compounds Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	MNT-SB03 05/02/1998 0.0-1.0 ft. Result	VQ	PSB-SS01 05/03/1998 0.0-1.0 ft. Result	VQ	PSB-SS01 (field dup) 05/03/1998 0.0-1.0 ft. Result	VQ	PSB-SS02 05/03/1998 0.0-1.0 ft. Result	VQ
Volatile Organic Compounds												
Acetone	SW8260	7.4	1400000	ug/Kg	24	U	25	U	25	U	27	U
Methylene Chloride	SW8260	6.9	9100	ug/Kg	6.1	U	6.2	U	6.3	U	6.9	U
Toluene	SW8260	8	66000	ug/Kg	6.1	U	6.2	U	4.4	J	2.1	J
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	SW8270	5600	12000	ug/Kg	400	U	410	U	410	U	450	U
2,6-Dinitrotoluene	SW8270	870	6100	ug/Kg	400	U	410	U	410	U	450	U
2-Methylnaphthalene	SW8270	240		ug/Kg	400	U	410	U	410	U	450	U
Acenaphthene	SW8270	52	370000	ug/Kg	400	U	410	U	410	U	450	U
Acenaphthylene	SW8270	750		ug/Kg	400	U	64	J	57	J	68	J
Anthracene	SW8270	790	2200000	ug/Kg	400	U	65	J	57	J	68	J
Benzo(a)anthracene	SW8270	3500	620	ug/Kg	400	U	260	J	220	J	270	J
Benzo(a)pyrene	SW8270	3300	62	ug/Kg	400	U	**300**	**J**	**260**	**J**	**310**	**J**
Benzo(b)fluoranthene	SW8270	3400	620	ug/Kg	400	U	320	J	270	J	310	J
Benzo(g,h,i)perylene	SW8270	1300		ug/Kg	400	U	150	J	130	J	150	J
Benzo(k)fluoranthene	SW8270	3300	6200	ug/Kg	400	U	320	J	290	J	360	J
Carbazole	SW8270	200	24000	ug/Kg	400	U	410	U	410	U	450	U
Chrysene	SW8270	3400	62000	ug/Kg	400	U	340	J	290	J	340	J
Dibenz(a,h)anthracene	SW8270	31	62	ug/Kg	400	U	410	U	410	U	450	U
Dibenzofuran	SW8270	61	15000	ug/Kg	400	U	410	U	410	U	450	U
Fluoranthene	SW8270	5500	230000	ug/Kg	400	U	630		520		620	
Fluorene	SW8270	190	270000	ug/Kg	400	U	410	U	410	U	450	U
Indeno(1,2,3-cd)pyrene	SW8270	1400	620	ug/Kg	400	U	160	J	130	J	160	J
Naphthalene	SW8270	61	5600	ug/Kg	400	U	410	U	410	U	450	U
Phenanthrene	SW8270	2400		ug/Kg	400	U	270	J	180	J	210	J
Pyrene	SW8270	4600	230000	ug/Kg	400	U	510		440		520	
bis(2-Ethylhexyl)phthalate	SW8270	120	35000	ug/Kg	400	U	410	U	410	U	450	U
Explosives												
2,4-Dinitrotoluene	SW8330	1300	12000	ug/Kg								
Polychlorinated Biphenyls (PCBs)												
PCB-1260 (Aroclor 1260)	SW8081	3200	220	ug/Kg	40	U	200		**400**		**330**	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound . Bold / shaded values represent PRG exceedances.

Table 4-12 Summary of Metals Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB001 05/03/1998 0.0-1.0 ft. Result	VQ	AA3-SB001 (field dup) 05/03/1998 0.0-1.0 ft. Result	VQ	AA3-SB002 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB003 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB004 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB005 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB006 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB007 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB008 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB009 05/02/1998 0.0-1.0 ft. Result	VQ
Metals																									
Aluminum	SW6010	11800	15500	7600	mg/Kg	7310		9040		7320		7740		11800		10600		8730		3960		6540		6510	
Arsenic	SW6010	9.6	36.5	0.39	mg/Kg	8.2		8.7		5.9		9.4		9.6		7		7.8		3.4		5.9		4.7	
Barium	SW6010	115	826	540	mg/Kg	62		62.1		64.2		53.3		115		84.7		56.7		40.5		47.1		29	
Calcium	SW6010	52200	52300		mg/Kg	39300		29400		16300	J	9680		11900		3510	J	1650	J	52200	J	47600		1630	
Chromium	SW6010	17.1	29		mg/Kg	12.8		15.4		11.4		12.1		17.1		15.5		12.4		6.5		11.4		9.9	
Cobalt	SW6010	22.3	116	90	mg/Kg	11.7		14.6		8.7		11.6		22.3		9.3		15.8		5.8	U	8.9		11.7	
Copper	SW6010	25.6	56.2	310	mg/Kg	19.1		25.6		12		13.1		22.2		18.3		16.3		4.1		14.1		7.8	
Iron	SW6010	26600	234000	2300	mg/Kg	18600		20500		13600		17400		26600		15900		20200		6810		14600		12800	
Lead	SW6010	46.9	48.6	40	mg/Kg	46.9		22.2		35.7		7.4		10.6		10.6		9.8		3.6		34.2		6	
Magnesium	SW6010	13900	10400		mg/Kg	8550		9590		4260		3660		5440		2770		2140		2240		9820		1330	
Manganese	SW6010	922	3506.2	180	mg/Kg	353		442		531		442		922		205		540		213		287		290	
Mercury	SW7471	0.19	0.1	2.3	mg/Kg	0.04	U	0.039	U	0.044		0.038	U	0.039	U	0.049		0.046		0.039	U	0.19		0.039	U
Nickel	SW6010	36.5	55.1	160	mg/Kg	21		25.7		13.9		15.3		36.5		19.1		19		7		15.4		10.3	
Potassium	SW6010	1230	3390		mg/Kg	1030	J	1230	J	649	U	581	U	901		775		610	U	584	U	772		588	U
Selenium	SW6010	1	2	39	mg/Kg	0.69		0.59	U	0.65	U	0.58	U	0.6	U	0.7		0.67		0.58	U	0.59	U	0.59	U
Vanadium	SW6010	30	40.9	7.8	mg/Kg	23		26.3		20.7		22.6		30		23.9		23.7		14.5		19.9		18.7	
Zinc	SW6010	238	321.8	2300	mg/Kg	74.6		92.8		41.3		35		60.1		66.6		44.3		21.3		75.4		27.9	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-12 Summary of Metals Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB010 05/02/1998 0.0-1.0 ft. Result	VQ	AA3-SB011 04/30/1998 0.0-1.0 ft. Result	VQ	AA3-SB012 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB013 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB014 05/01/1998 0.0-1.0 ft. Result	VQ	AA3-SB015 05/01/1998 0.0-1.0 ft. Result	VQ	MNT-SB01 05/03/1998 0.0-1.0 ft. Result	VQ	MNT-SB01 (field dup) 05/03/1998 0.0-1.0 ft. Result	VQ	MNT-SB02 05/02/1998 0.0-1.0 ft. Result	VQ	MNT-SB03 05/02/1998 0.0-1.0 ft. Result	VQ
Metals																									
Aluminum	SW6010	11800	15500	7600	mg/Kg	5010		7940		6190		7700		5990		5720		6400		9640		5830		8440	
Arsenic	SW6010	9.6	36.5	0.39	mg/Kg	3.1		7.7		4.6		6		2.5		6		7		7.7		9.6		5.8	
Barium	SW6010	115	826	540	mg/Kg	25		41		57.8		53.3		24	U	31.9		36.7		56.8		36.1		81.4	
Calcium	SW6010	52200	52300		mg/Kg	18600		31300	J	4620	J	48400	J	2400	J	22700	J	51300		22300		47700		4410	
Chromium	SW6010	17.1	29		mg/Kg	6.4		11.6		8.9		12.1		7.4		8.4		10.2		15.1		9.7		10.9	
Cobalt	SW6010	22.3	116	90	mg/Kg	5.7	U	10.6		6.4		17.1		6	U	6.7		8.6		12.9		9.1		10.5	
Copper	SW6010	25.6	56.2	310	mg/Kg	6.4		14.1		11.3		20.5		4.2		9.7		12.4		17.7		13.7		12.9	
Iron	SW6010	26600	234000	2300	mg/Kg	8230		16200		11100		21100		9180		11100		13400		19400		13600		16600	
Lead	SW6010	46.9	48.6	40	mg/Kg	5.8		8.6		10.4		9.8		6		12.6		6.5		8.3		7.6		11.5	
Magnesium	SW6010	13900	10400		mg/Kg	2240		8900		1270		13400		992		6500		13900		8500		12700		1740	
Manganese	SW6010	922	3506.2	180	mg/Kg	159		388		182		814		51.9		224		298		418		381		574	
Mercury	SW7471	0.19	0.1	2.3	mg/Kg	0.038	U	0.04	U	0.042		0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.039	U	0.046	
Nickel	SW6010	36.5	55.1	160	mg/Kg	7.1		20		10		34.9		6.8		12.2		13.6		20.8		16		12.2	
Potassium	SW6010	1230	3390		mg/Kg	574	U	908		620	U	945		599	U	599	U	953	J	1110	J	998		611	
Selenium	SW6010	1	2	39	mg/Kg	0.57	U	0.6	U	1		0.59	U	0.6	U	0.6		0.6	U	0.6	U	0.59	U	0.62	
Vanadium	SW6010	30	40.9	7.8	mg/Kg	13.3		23.2		16.7		25.9		14.3		17		21.1		27		18.4		21.1	
Zinc	SW6010	238	321.8	2300	mg/Kg	24.2		44.6		36		61.3		23.2		51.8		38		48.8		39.6		40.2	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 4-12 Summary of Metals Detected in Surface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	PSB-SS01 05/03/1998 0.0-1.0 ft. Result	VQ	PSB-SS01 (field dup) 05/03/1998 0.0-1.0 ft. Result	VQ	PSB-SS02 05/03/1998 0.0-1.0 ft. Result	VQ
Metals											
Aluminum	SW6010	11800	15500	7600	mg/Kg	5660		6000		8210	
Arsenic	SW6010	9.6	36.5	0.39	mg/Kg	3.8		3.6		5.1	
Barium	SW6010	115	826	540	mg/Kg	40.8		39.4		49.5	
Calcium	SW6010	52200	52300		mg/Kg	2540		2410		6540	
Chromium	SW6010	17.1	29		mg/Kg	11.1		11.2		14.4	
Cobalt	SW6010	22.3	116	90	mg/Kg	8.6		8.5		11.4	
Copper	SW6010	25.6	56.2	310	mg/Kg	9.7		9.3		13.4	
Iron	SW6010	26600	234000	2300	mg/Kg	11000		10900		14400	
Lead	SW6010	46.9	48.6	40	mg/Kg	16.5		16.7		33.6	
Magnesium	SW6010	13900	10400		mg/Kg	1340		1350		2330	
Manganese	SW6010	922	3506.2	180	mg/Kg	226		230		312	
Mercury	SW7471	0.19	0.1	2.3	mg/Kg	0.041	U	0.041	U	0.045	
Nickel	SW6010	36.5	55.1	160	mg/Kg	10.3		10		15.3	
Potassium	SW6010	1230	3390		mg/Kg	623	U	627	U	1160	
Selenium	SW6010	1	2	39	mg/Kg	0.62	U	0.64		0.69	U
Vanadium	SW6010	30	40.9	7.8	mg/Kg	16.6		17.2		23.1	
Zinc	SW6010	238	321.8	2300	mg/Kg	128	J	132	J	238	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-13 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA3-SB016 11/5/2004 3.0-5.0 ft. Result	VQ	AA3-SB016 11/5/2004 8.0-10.0 ft. Result	VQ	AA3-SB017 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB018 11/4/2004 3.0-5.0 ft. Result	VQ	AA3-SB018 11/4/2004 8.0-10.0 ft. Result	VQ	AA3-SB019 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB019 (field dup) 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB019 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB020 11/4/2004 3.0-5.0 ft. Result	VQ
Volatile Organic Compounds																						
2-Butanone (Methyl ethyl ketone)	SW8260B	20	2200000	ug/Kg	1.21	U	1.16	U	1.2	U	5.94	J	1.22	U	11.8	J	5.08	J	1.21	U	1.13	U
Acetone	SW8260B	148	1400000	ug/Kg	1.78	U	1.7	U	1.75	U	1.7	UJ	1.79	U	1.67	U	1.79	U	1.77	U	1.66	U
Benzene	SW8260B	9.11	640	ug/Kg	0.93	U	2.3	J	6.74		0.893	U	4.44	J	0.876	U	0.937	U	5.39		6.23	
Carbon Disulfide	SW8260B	3.88	36000	ug/Kg	1.52	U	1.46	U	1.5	U	1.46	U	1.54	U	1.43	U	1.53	U	1.51	U	1.42	U
Cyclohexane	SW8260B	11.3	280000	ug/Kg	1.75	U	4.67	J	11.3		1.68	U	7.13		1.65	U	1.77	U	8.88		10.2	
Ethylbenzene	SW8260B	5.25	190000	ug/Kg	0.708	U	0.678	U	3.96	J	0.68	U	1.43	J	0.667	U	0.713	U	1.63	J	3.37	J
Methyl Acetate	SW8260B	19.3	2200000	ug/Kg	3.71	UJ	3.56	UJ	3.66	UJ	3.56	UJ	3.75	UJ	19.3	J	3.74	UJ	3.7	UJ	3.46	UJ
Methylcyclohexane	SW8260B	12.9	260000	ug/Kg	0.819	U	4.38	J	12.9		0.786	U	7.67		0.771	U	0.824	U	8.92		11.3	
Toluene	SW8260B	22.8	66000	ug/Kg	0.835	U	3.18	J	15.8		0.801	U	8.23		0.786	U	0.84	U	10.3		13.7	
Xylenes, Total	SW8260B	13.6	27000	ug/Kg	1.19	U	1.37	J	10.8		1.14	U	4.55	J	1.12	U	1.2	U	5.6		9.31	
Semivolatile Organic Compounds																						
Benzyl butyl phthalate	SW8270C	901	1200000	ug/Kg	143	U	158	U	901		152	U	158	U	150	U	154	U	166	U	148	U
Di-n-butylphthalate	SW8270C	20700	610000	ug/Kg	447	U	495	U	20700		475	U	495	U	471	U	481	U	521	U	465	U
bis(2-Ethylhexyl)phthalate	SW8270C	582	35000	ug/Kg	365	U	404	U	395	U	388	U	521		385	U	393	U	426	U	380	U
Polychlorinated Biphenyls (PCBs)																						
PCB-1254 (Aroclor 1254)	SW8082	47.6	220	ug/Kg	16.8	U	18.4	U	17.7	U	17.8	U	18.9	U	47.6	J	33.9	J	19.5	U	17.3	U
PCB-1260 (Aroclor 1260)	SW8082	115	220	ug/Kg	4.7	U	5.13	U	4.93	U	4.97	U	5.26	U	115	J	76	J	5.44	U	4.82	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-13 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA3-SB021 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB021 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB021 (field dup) 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB022 11/4/2004 3.0-5.0 ft. Result	VQ	AA3-SB022 11/4/2004 8.0-10.0 ft. Result	VQ	AA3-SB023 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB023 (field dup) 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB023 11/9/2004 8.0-10.0 ft. Result	VQ
Volatile Organic Compounds																				
2-Butanone (Methyl ethyl ketone)	SW8260B	20	2200000	ug/Kg	1.07	U	1.07	U	1.11	U	1.29	U	1.19	U	6.34	J	1.21	U	1.13	U
Acetone	SW8260B	148	1400000	ug/Kg	1.57	U	1.57	U	1.63	U	1.89	U	1.74	U	1.73	U	1.77	U	1.65	U
Benzene	SW8260B	9.11	640	ug/Kg	0.822	U	0.823	U	0.854	U	6.03		3.43	J	9.11	J	4.63	J	3.12	J
Carbon Disulfide	SW8260B	3.88	36000	ug/Kg	1.34	U	1.35	U	1.4	U	1.62	U	1.49	U	1.48	U	1.51	U	1.41	U
Cyclohexane	SW8260B	11.3	280000	ug/Kg	1.55	U	1.55	U	1.61	U	8.37		6.32		8.95		6.75		6.17	
Ethylbenzene	SW8260B	5.25	190000	ug/Kg	0.626	U	0.627	U	0.65	U	3.37	J	0.787	J	5.25		4.45	J	0.894	J
Methyl Acetate	SW8260B	19.3	2200000	ug/Kg	3.28	UJ	3.28	UJ	3.41	UJ	3.94	UJ	3.63	UJ	3.61	UJ	3.7	UJ	3.44	UJ
Methylcyclohexane	SW8260B	12.9	260000	ug/Kg	0.724	U	0.724	U	0.752	U	9.41		6.46		8.49		7.46		6.62	
Toluene	SW8260B	22.8	66000	ug/Kg	0.738	U	0.739	U	0.766	U	15.1		5.44		22.8		14.4		4.76	J
Xylenes, Total	SW8260B	13.6	27000	ug/Kg	1.05	U	1.05	U	1.09	U	9.58		2.68	J	13.6		10.6		3.15	J
Semivolatile Organic Compounds																				
Benzyl butyl phthalate	SW8270C	901	1200000	ug/Kg	196	J	148	U	150	U	152	U	158	U	161	U	158	U	156	U
Di-n-butylphthalate	SW8270C	20700	610000	ug/Kg	471	U	463	U	469	U	1440		494	U	506	U	496	U	488	U
bis(2-Ethylhexyl)phthalate	SW8270C	582	35000	ug/Kg	385	U	378	U	582	J	389	U	403	U	413	U	405	U	398	U
Polychlorinated Biphenyls (PCBs)																				
PCB-1254 (Aroclor 1254)	SW8082	47.6	220	ug/Kg	18.4	U	17.1	U	18.4	U	18.2	U	18.7	U	99.9	U	37.4	U	19.1	U
PCB-1260 (Aroclor 1260)	SW8082	115	220	ug/Kg	5.14	U	4.76	U	5.13	U	5.08	U	5.22	U	27.9	UJ	12.7	J	5.33	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-13 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA3-SB024 11/5/2004 3.0-5.0 ft.		AA3-SB024 11/5/2004 8.0-10.0 ft.		AA3-SB025 11/5/2004 3.0-5.0 ft.		AA3-SB025 11/5/2004 8.0-10.0 ft.		AA3-SB026 11/8/2004 3.0-5.0 ft.		AA3-SB027 11/8/2004 3.0-5.0 ft.		AA3-SB028 11/8/2004 3.0-5.0 ft.		AA3-SB029 11/8/2004 3.0-5.0 ft.	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																				
2-Butanone (Methyl ethyl ketone)	SW8260B	20	2200000	ug/Kg	20		1.18	U	1.09	U	1.17	U	1.3	U	8.78	J	1.28	U	1.26	U
Acetone	SW8260B	148	1400000	ug/Kg	148		1.72	U	1.6	U	1.71	U	1.91	U	2	U	1.88	U	1.85	U
Benzene	SW8260B	9.11	640	ug/Kg	0.91	U	6.45		2.23	J	1.22	J	4.16	J	1.05	U	0.984	U	4.54	J
Carbon Disulfide	SW8260B	3.88	36000	ug/Kg	1.49	U	1.47	U	3.88	J	1.47	U	1.63	U	1.72	U	1.61	U	1.59	U
Cyclohexane	SW8260B	11.3	280000	ug/Kg	1.72	U	7.37		4.47	J	4.33	J	7.56		1.98	U	1.86	U	6.95	
Ethylbenzene	SW8260B	5.25	190000	ug/Kg	0.692	U	2.12	J	1.29	J	0.684	U	2.21	J	0.799	U	0.749	U	2.81	J
Methyl Acetate	SW8260B	19.3	2200000	ug/Kg	3.63	UJ	3.6	UJ	3.35	UJ	3.58	UJ	3.99	UJ	7.66	J	18.6	J	3.87	UJ
Methylcyclohexane	SW8260B	12.9	260000	ug/Kg	0.801	U	7.55		5.38		4.51	J	8.39		1.03	J	0.866	U	8.14	
Toluene	SW8260B	22.8	66000	ug/Kg	0.816	U	12.7		5.26		1.6	J	10.3		1.69	J	0.883	U	11.7	
Xylenes, Total	SW8260B	13.6	27000	ug/Kg	1.16	U	5.74		3.57	J	1.15	U	6.98		1.34	U	1.26	U	8.51	
Semivolatile Organic Compounds																				
Benzyl butyl phthalate	SW8270C	901	1200000	ug/Kg	307	J	154	U	153	U	156	U	156	U	153	U	146	U	150	U
Di-n-butylphthalate	SW8270C	20700	610000	ug/Kg	474	U	483	U	479	U	488	U	487	U	481	U	458	U	470	U
bis(2-Ethylhexyl)phthalate	SW8270C	582	35000	ug/Kg	387	U	395	U	392	U	398	U	398	U	393	U	503		384	U
Polychlorinated Biphenyls (PCBs)																				
PCB-1254 (Aroclor 1254)	SW8082	47.6	220	ug/Kg	19	U	18.7	U	18.5	U	18.3	U	18.8	U	18.2	U	17.9	U	18.2	U
PCB-1260 (Aroclor 1260)	SW8082	115	220	ug/Kg	5.3	U	5.21	U	5.17	U	5.1	U	5.25	U	5.08	U	5.01	U	5.09	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-14*Summary of Metals Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB016 11/5/2004 3.0-5.0 ft. Result	VQ	AA3-SB016 11/5/2004 8.0-10.0 ft. Result	VQ	AA3-SB017 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB018 11/4/2004 3.0-5.0 ft. Result	VQ	AA3-SB018 11/4/2004 8.0-10.0 ft. Result	VQ	AA3-SB019 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB019 (field dup) 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB019 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB020 11/4/2004 3.0-5.0 ft. Result	VQ	AA3-SB021 11/9/2004 3.0-5.0 ft. Result	VQ
Metals																									
Aluminum	SW6010B	11200	15500	7600	mg/Kg	6790		7130		8930		11200		9610		7990		9590		8690		9230		10600	
Antimony	SW6010B	1.09	9.3	3.1	mg/Kg	0.898	J	0.803	U	0.797	UJ	1.09	J	0.758	UJ	0.808	UJ	1.65	UJ	0.796	UJ	0.771	UJ	0.527	UJ
Arsenic	SW6010B	31	36.5	0.39	mg/Kg	8.11		0.662	U	18.3		6.67		0.718	J	5.98		19.9		11.6		4.04		14.6	
Barium	SW6010B	337	826	540	mg/Kg	23.3		63.8		73.5	J	74.8		51.8		56.4	J	337	J	96.5	J	72.4		74.8	J
Beryllium	SW6010B	0.823	1	15	mg/Kg	0.277	J	0.28	J	0.622		0.055	U	0.0699	U	0.546	J	0.823		0.549	J	0.0712	U	0.678	
Cadmium	SW6010B	1.68		3.7	mg/Kg	0.214	J	0.348	J	0.557	J	0.0458	U	0.0582	U	0.417	J	1.68		0.642		0.0593	U	0.917	
Calcium	SW6010B	62600	52300		mg/Kg	1600		56400		42000		2740	J	49000	J	3420		3970		45100		24500	J	3460	
Chromium	SW6010B	19.3	29		mg/Kg	11.2	J	12.7	J	15.3		19.3		15.4		14.3		19.1		15.7		13.8		18.1	
Cobalt	SW6010B	38.4	116	90	mg/Kg	5.78		8.7		12	J	6.73		6.98		4.73	J	38.4	J	12	J	9.05		14.3	J
Copper	SW6010B	35.6	56.2	310	mg/Kg	10.4	J	19.2	J	28.5		23.3		21.4		19.2		35.6		23.6		17.7		31.6	
Iron	SW6010B	36600	234000	2300	mg/Kg	16800		18200		28200		24700		18300		17600		36600		21100		19800		34800	
Lead	SW6010B	25.7	48.6	40	mg/Kg	9.44	J	10.9	J	15.2		10.1		11.8		14.2		25.7		11.9		9.25		15.3	
Magnesium	SW6010B	23500	10400		mg/Kg	1430		18100		14700		2970	J	16700	J	2740		3280		15800		9660	J	3740	
Manganese	SW6010B	3390	3506.2	180	mg/Kg	224		430		743	J	191	J	300	J	137	J	3390	J	763	J	611	J	1020	J
Mercury	SW7471A	0.0623	0.1	2.3	mg/Kg	0.0229	J	0.0048	U	0.0144	J	0.043		0.0064	U	0.0314	J	0.0069	U	0.0064	U	0.0157	J	0.0182	J
Nickel	SW6010B	62.8	55.1	160	mg/Kg	12.5	J	21.7	J	35.1	J	19.1		22.9		18.6	J	62.8	J	29.7	J	20.1		41.7	J
Potassium	SW6010B	1850	3390		mg/Kg	439		1260		1040	J	750	J	1850	J	917	J	1090	J	1590	J	840	J	1160	J
Selenium	SW6010B	2.81	2	39	mg/Kg	1.34	U	2.9	U	1.44	U	1.08	U	2.74	U	1.46	U	2.97	U	1.44	U	1.39	U	0.952	U
Silver	SW6010B	0.278	11.1	39	mg/Kg	0.109	U	0.278	J	0.117	U	0.0878	U	0.112	U	0.119	U	0.121	U	0.117	U	0.114	U	0.0775	U
Sodium	SW6010B	173			mg/Kg	39.8	J	118	J	95.4	J	46.5	J	128	J	63.6	J	59	J	116	J	78	J	56.4	J
Thallium	SW6010B	5.45	1.3	0.52	mg/Kg	**2.7**		1.23	U	1.22	U	**2.62**		1.16	U	1.24	U	2.52	U	1.22	U	**5.45**		0.806	U
Vanadium	SW6010B	39	40.9	7.8	mg/Kg	20.3		19.3		29.1	J	27.3		21.5		19.9	J	39	J	22.5	J	22.2		28.6	J
Zinc	SW6010B	84.4	321.8	2300	mg/Kg	29.4	J	48.9	J	60.5	J	48.3		56		53.3	J	73.3	J	67.1	J	46.1		84.4	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-14 Summary of Metals Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB021 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB021 (field dup) 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB022 11/4/2004 3.0-5.0 ft. Result	VQ	AA3-SB022 11/4/2004 8.0-10.0 ft. Result	VQ	AA3-SB023 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB023 (field dup) 11/9/2004 3.0-5.0 ft. Result	VQ	AA3-SB023 11/9/2004 8.0-10.0 ft. Result	VQ	AA3-SB024 11/5/2004 3.0-5.0 ft. Result	VQ	AA3-SB024 11/5/2004 8.0-10.0 ft. Result	VQ
Metals																							
Aluminum	SW6010B	11200	15500	7600	mg/Kg	7950		8660		7140		7040		7380		5000		8720		5870		3480	
Antimony	SW6010B	1.09	9.3	3.1	mg/Kg	0.753	UJ	0.77	UJ	0.481	UJ	0.527	UJ	0.735	UJ	0.78	UJ	0.608	UJ	0.771	J	0.713	U
Arsenic	SW6010B	31	36.5	0.39	mg/Kg	7.57		31		6.76		4.97		13.1		9.15		10		3.63		2.58	J
Barium	SW6010B	337	826	540	mg/Kg	57.5	J	201	J	65.5		47.8		47	J	39	J	53.1	J	31.6		26.2	
Beryllium	SW6010B	0.823	1	15	mg/Kg	0.503	J	0.583		0.0444	U	0.0487	U	0.575		0.366	J	0.561		0.232	J	0.147	J
Cadmium	SW6010B	1.68		3.7	mg/Kg	0.493	J	0.543	J	0.037	U	0.0405	U	0.727		0.434	J	0.567		0.154	J	0.23	J
Calcium	SW6010B	62600	52300		mg/Kg	53800		49900		49200	J	52400	J	20700		30200		58200		2710		53300	
Chromium	SW6010B	19.3	29		mg/Kg	14.1		14.8		11.3		12.1		13.8		9.53		15.4		11	J	6.5	J
Cobalt	SW6010B	38.4	116	90	mg/Kg	6.68	J	15.7	J	8.78		8.14		12.8	J	5.66	J	10		4.58		5.26	
Copper	SW6010B	35.6	56.2	310	mg/Kg	22		25.6		25.6		19.3		26.6		16.2		23.6		13.7	J	14	J
Iron	SW6010B	36600	234000	2300	mg/Kg	18600		30100		17400		16400		22600		15500		21400		14600		12900	
Lead	SW6010B	25.7	48.6	40	mg/Kg	11.5		15.9		13.5		10.6		14.2		9.07		11.5		10.8	J	8.35	J
Magnesium	SW6010B	23500	10400		mg/Kg	17600		16400		15600	J	23500	J	10900		11700		19600		2000		16000	
Manganese	SW6010B	3390	3506.2	180	mg/Kg	465	J	1670	J	397	J	479	J	676	J	490	J	573	J	96.5		326	
Mercury	SW7471A	0.0623	0.1	2.3	mg/Kg	0.0134	J	0.0058	U	0.0065	U	0.0102	J	0.0128	J	0.0057	U	0.0087	J	0.0056	U	0.0045	U
Nickel	SW6010B	62.8	55.1	160	mg/Kg	22.9	J	40	J	25.9		20		29.3	J	16.7	J	29.7	J	14.7	J	13.2	J
Potassium	SW6010B	1850	3390		mg/Kg	1450	J	1500	J	730	J	1290	J	787	J	656	J	1840	J	573		702	
Selenium	SW6010B	2.81	2	39	mg/Kg	1.36	U	1.39	U	1.74	U	1.91	U	1.33	U	1.41	U	1.1	U	1.16	U	2.58	U
Silver	SW6010B	0.278	11.1	39	mg/Kg	0.111	U	0.113	U	0.0708	U	0.104	J	0.108	U	0.115	U	0.0896	U	0.0948	U	0.216	J
Sodium	SW6010B	173			mg/Kg	129	J	118	J	93.6	J	140		93.7	J	92.8	J	173		54	J	91	J
Thallium	SW6010B	5.45	1.3	0.52	mg/Kg	1.15	U	**1.48**	**J**	1.47	U	0.807	U	1.12	U	**1.83**	**J**	0.931	U	**2.64**		1.09	U
Vanadium	SW6010B	39	40.9	7.8	mg/Kg	22	J	24.9	J	20.3		20.3		27.2	J	17.7	J	23.7	J	15.4		11.3	
Zinc	SW6010B	84.4	321.8	2300	mg/Kg	53.4	J	69.2	J	45.7		42.4		59.8	J	39.5	J	66.1	J	37.2	J	33.8	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-14 Summary of Metals Detected in Subsurface Soil at Acid Area 3 - 2004 RI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB025 11/5/2004 3.0-5.0 ft. Result	VQ	AA3-SB025 11/5/2004 8.0-10.0 ft. Result	VQ	AA3-SB026 11/8/2004 3.0-5.0 ft. Result	VQ	AA3-SB027 11/8/2004 3.0-5.0 ft. Result	VQ	AA3-SB028 11/8/2004 3.0-5.0 ft. Result	VQ	AA3-SB029 11/8/2004 3.0-5.0 ft. Result	VQ
Metals																	
Aluminum	SW6010B	11200	15500	7600	mg/Kg	4170		6750		8290		9330		10300		8710	
Antimony	SW6010B	1.09	9.3	3.1	mg/Kg	0.698	U	0.761	U	0.671	UJ	0.632	UJ	0.849	J	0.644	UJ
Arsenic	SW6010B	31	36.5	0.39	mg/Kg	1.86	J	0.627	U	7.1	J	4.23	J	8.34	J	5.02	J
Barium	SW6010B	337	826	540	mg/Kg	26.5		40.1		51		54.6		60.9		49.2	
Beryllium	SW6010B	0.823	1	15	mg/Kg	0.164	J	0.273	J	0.307	J	0.353	J	0.392	J	0.334	J
Cadmium	SW6010B	1.68		3.7	mg/Kg	0.273	J	0.309	J	0.301	J	0.22	J	0.37	J	0.299	J
Calcium	SW6010B	62600	52300		mg/Kg	43500		55000		54500	J	3230	J	3660	J	62600	J
Chromium	SW6010B	19.3	29		mg/Kg	7.45	J	11.8	J	12.3		13.5		15.4		13	
Cobalt	SW6010B	38.4	116	90	mg/Kg	4.65		7.89		8.42		8.67		9.34		6	
Copper	SW6010B	35.6	56.2	310	mg/Kg	11.2	J	16.8	J	18.9		10		16.6		22	
Iron	SW6010B	36600	234000	2300	mg/Kg	11800		16700		18500		13000		19500		17900	
Lead	SW6010B	25.7	48.6	40	mg/Kg	8.1	J	10.4	J	10.8		11.6		10		10.4	
Magnesium	SW6010B	23500	10400		mg/Kg	12500		19000		17700	J	2480	J	2990	J	16100	J
Manganese	SW6010B	3390	3506.2	180	mg/Kg	344		467		466	J	241	J	347	J	418	J
Mercury	SW7471A	0.0623	0.1	2.3	mg/Kg	0.005	U	0.0046	U	0.0051	U	0.0623		0.0272	J	0.0062	U
Nickel	SW6010B	62.8	55.1	160	mg/Kg	14.4	J	20.7	J	22.3		18.2		27.6		19.8	
Potassium	SW6010B	1850	3390		mg/Kg	490		1330		1430	J	901	J	1020	J	1130	
Selenium	SW6010B	2.81	2	39	mg/Kg	2.52	U	2.81	J	1.21	U	1.14	U	1.09	U	1.16	U
Silver	SW6010B	0.278	11.1	39	mg/Kg	0.122	J	0.24	J	0.116	J	0.0931	U	0.0891	U	0.164	J
Sodium	SW6010B	173			mg/Kg	70.4	J	121	J	117	J	43.9	J	64.2	J	100	J
Thallium	SW6010B	5.45	1.3	0.52	mg/Kg	**1.5**	**J**	1.16	U	1.03	U	**3.15**		**3.45**		0.985	U
Vanadium	SW6010B	39	40.9	7.8	mg/Kg	14.8		18.7		22.2		19.5		24.7		24.3	
Zinc	SW6010B	84.4	321.8	2300	mg/Kg	31.6	J	45.5	J	46.3		41.6		50.3		49	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-15 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location	AA3-SB001		AA3-SB002		AA3-SB003		AA3-SB004		AA3-SB005		AA3-SB006		AA3-SB007		AA3-SB008		AA3-SB009		AA3-SB010	
				Date	05/03/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/01/1998		05/02/1998		05/02/1998	
				Depth	6.0-8.0 ft.		6.0-8.0 ft.		6.0-8.0 ft.		8.0-10.0 ft.		8.0-10.0 ft.		4.0-6.0 ft.		2.0-4.0 ft.		4.0-6.0 ft.		8.0-10.0 ft.		6.0-8.0 ft.	
				Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																								
2-Butanone (Methyl ethyl ketone)	SW8260	5.5	2200000	ug/Kg	25	U	25	U	25	U	25	U	24	U	24	U	24	U	5.5	J	25	U	25	U
Acetone	SW8260	250	1400000	ug/Kg	25	U	22	J	33	U	42	U	250		24	U	24	U	33	U	35	U	25	U
Carbon Disulfide	SW8260	13	36000	ug/Kg	6.3	U	6.2	U	6.3	U	2.3	J	6.1	U	6.1	U	6	U	6.1	U	6	J	6.3	U
Methylene Chloride	SW8260	40	9100	ug/Kg	6.3	U	6.2	U	6.3	U	6.2	U	6.1	U	6.1	U	6	U	6.1	U	6.2	U	6.3	U
Toluene	SW8260	3.2	66000	ug/Kg	6.3	U	6.2	U	6.3	U	6.2	U	6.1	U	6.1	UJ	6	U	6.1	U	6.2	UJ	6.3	U
Xylenes, Total	SW8260	6.5	27000	ug/Kg	6.3	U	6.2	U	6.3	U	6.2	U	6.1	U	6.1	UJ	6	U	6.5		6.2	UJ	6.3	U
Explosives																								
2,4-Dinitrotoluene	SW8330	2100	12000	ug/Kg	2100		250	U																
Semivolatile Organic Compounds																								
2,4-Dinitrotoluene	SW8270	1300	12000	ug/Kg	1300		410	U	420	U	410	U	400	U	400	U	400	U	400	U	410	U	420	U
2,6-Dinitrotoluene	SW8270	60	6100	ug/Kg	60	J	410	U	420	U	410	U	400	U	400	U	400	U	400	U	410	U	420	U
2-Methylnaphthalene	SW8270	81		ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	81	J	410	U	420	U
Acenaphthene	SW8270	100	370000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	100	J	410	U	420	U
Acenaphthylene	SW8270	120		ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	120	J	410	U	420	U
Anthracene	SW8270	280	2200000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	280	J	410	U	420	U
Benzo(a)anthracene	SW8270	360	620	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	360	J	410	U	420	U
Benzo(a)pyrene	SW8270	340	62	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	**340**	**J**	410	U	420	U
Benzo(b)fluoranthene	SW8270	340	620	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	340	J	410	U	420	U
Benzo(g,h,i)perylene	SW8270	170		ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	170	J	410	U	420	U
Benzo(k)fluoranthene	SW8270	320	6200	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	320	J	410	U	420	U
Chrysene	SW8270	360	62000	ug/Kg	420	U	410	U	420	U	26	J	400	U	400	U	400	U	360	J	410	U	420	U
Dibenzofuran	SW8270	280	15000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	280	J	410	U	420	U
Fluoranthene	SW8270	1000	230000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	1000		410	U	420	U
Fluorene	SW8270	410	270000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	410		410	U	420	U
Indeno(1,2,3-cd)pyrene	SW8270	170	620	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	170	J	410	U	420	U
Naphthalene	SW8270	140	5600	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	140	J	410	U	420	U
Phenanthrene	SW8270	1300		ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	1300		410	U	420	U
Pyrene	SW8270	730	230000	ug/Kg	420	U	410	U	420	U	410	U	400	U	400	U	400	U	730		410	U	420	U
bis(2-Ethylhexyl)phthalate	SW8270	140	35000	ug/Kg	420	U	410	U	420	U	410	U	140	J	45	J	400	U	400	U	410	U	420	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-15 Summary of Organic Compounds Detected in Subsurface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	PRG*	Location Date Depth Units	AA3-SB011 04/30/1998 2.0-4.0 ft. Result	VQ	AA3-SB012 05/01/1998 2.0-4.0 ft. Result	VQ	AA3-SB013 05/01/1998 8.0-10.0 ft. Result	VQ	AA3-SB014 05/01/1998 2.0-4.0 ft. Result	VQ	AA3-SB015 05/01/1998 6.0-8.0 ft. Result	VQ	MNT-SB01 05/03/1998 4.0-6.0 ft. Result	VQ	MNT-SB02 05/02/1998 2.0-4.0 ft. Result	VQ	MNT-SB03 05/02/1998 6.0-8.0 ft. Result	VQ
Volatile Organic Compounds																				
2-Butanone (Methyl ethyl ketone)	SW8260	5.5	2200000	ug/Kg	24	U	23	U	25	U	24	U	25	U	25	U	24	U	25	U
Acetone	SW8260	250	1400000	ug/Kg	24	U	23	U	19	J	68		25	U	25	U	24	U	110	B
Carbon Disulfide	SW8260	13	36000	ug/Kg	5.9	U	5.8	U	13		6	U	6.2	U	6.1	U	6	U	6.3	U
Methylene Chloride	SW8260	40	9100	ug/Kg	5.9	U	5.8	U	6.2	U	6	U	40	B	6.1	J	6	U	6.3	U
Toluene	SW8260	3.2	66000	ug/Kg	5.9	U	5.8	U	6.2	UJ	6	U	6.2	U	3.2	J	6	U	6.3	U
Xylenes, Total	SW8260	6.5	27000	ug/Kg	5.9	U	5.8	U	6.2	UJ	6	U	6.2	U	6.1	U	6	U	6.3	U
Explosives																				
2,4-Dinitrotoluene	SW8330	2100	12000	ug/Kg																
Semivolatile Organic Compounds																				
2,4-Dinitrotoluene	SW8270	1300	12000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
2,6-Dinitrotoluene	SW8270	60	6100	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
2-Methylnaphthalene	SW8270	81		ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Acenaphthene	SW8270	100	370000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Acenaphthylene	SW8270	120		ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Anthracene	SW8270	280	2200000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Benzo(a)anthracene	SW8270	360	620	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Benzo(a)pyrene	SW8270	340	62	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Benzo(b)fluoranthene	SW8270	340	620	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Benzo(g,h,i)perylene	SW8270	170		ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Benzo(k)fluoranthene	SW8270	320	6200	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Chrysene	SW8270	360	62000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Dibenzofuran	SW8270	280	15000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Fluoranthene	SW8270	1000	230000	ug/Kg	390	U	380	U	410	U	50	J	410	U	400	U	400	U	410	U
Fluorene	SW8270	410	270000	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Indeno(1,2,3-cd)pyrene	SW8270	170	620	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Naphthalene	SW8270	140	5600	ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Phenanthrene	SW8270	1300		ug/Kg	390	U	380	U	410	U	400	U	410	U	400	U	400	U	410	U
Pyrene	SW8270	730	230000	ug/Kg	390	U	380	U	410	U	35	J	410	U	400	U	400	U	410	U
bis(2-Ethylhexyl)phthalate	SW8270	140	35000	ug/Kg	390	U	380	U	120	J	400	U	410	U	400	U	400	U	91	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-16 Summary of Metals Detected in Subsurface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Depth Units	AA3-SB001 05/03/1998 6.0-8.0 ft. Result	VQ	AA3-SB002 05/01/1998 6.0-8.0 ft. Result	VQ	AA3-SB003 05/01/1998 6.0-8.0 ft. Result	VQ	AA3-SB004 05/01/1998 8.0-10.0 ft. Result	VQ	AA3-SB005 05/01/1998 8.0-10.0 ft. Result	VQ	AA3-SB006 05/01/1998 4.0-6.0 ft. Result	VQ	AA3-SB007 05/01/1998 2.0-4.0 ft. Result	VQ	AA3-SB008 05/01/1998 4.0-6.0 ft. Result	VQ	AA3-SB009 05/02/1998 8.0-10.0 ft. Result	VQ
Metals																							
Aluminum	SW6010	11900	15500	7600	mg/Kg	10700		9550		7330		10300		6840		9680		2650		7070		10200	
Antimony	SW6010	8	9.3	3.1	mg/Kg	7.6	UJ	7.5	UJ	8	J	7.4	UJ	7.3	UJ	7.3	UJ	7.2	UJ	7.3	UJ	7.4	J
Arsenic	SW6010	32.2	36.5	0.39	mg/Kg	4		5.1		32.2		6		7.4		10.3		2.5		5.6		29.2	
Barium	SW6010	126	826	540	mg/Kg	98.5		69.8		126		70.6		74.4		88		24.2	U	46.9		65	
Beryllium	SW6010	0.75	1	15	mg/Kg	0.63	U	0.62	U	0.63	U	0.62	U	0.61	U	0.61	U	0.6	U	0.61	U	0.62	U
Calcium	SW6010	64200	52300		mg/Kg	59900		55700	J	56200		63500		56500	J	52000	J	3250	J	27500		61300	
Chromium	SW6010	17.6	29		mg/Kg	17.6		16.1		10.5		17.2		12.1		15.2		4.5		10.9		16.4	
Cobalt	SW6010	20.2	116	90	mg/Kg	11.4		12.7		20		16.5		10.2		13.6		6	U	11.1		16.3	
Copper	SW6010	25.9	56.2	310	mg/Kg	25.9		25.3		22.9		23.3		21.4		22.5		3	U	14.5		21.1	
Iron	SW6010	34300	234000	2300	mg/Kg	17000		21100		34300		23600		19000		21500		5720		14900		23700	
Lead	SW6010	12.6	48.6	40	mg/Kg	12.6		11.3		8.8		10		9.2		10.3		2.5		8.9		9	
Magnesium	SW6010	21400	10400		mg/Kg	19900		19200		16400		18200		15800		18000		744		7700		18800	
Manganese	SW6010	1180	3506.2	180	mg/Kg	286		473		1180		553		454		580		93.4		277		525	
Nickel	SW6010	45	55.1	160	mg/Kg	23.8		30.4		45		31.7		23.5		31.5		6.2		19		28.5	
Potassium	SW6010	2550	3390		mg/Kg	2550	J	2080		1580		2440		1430		1790		604	U	812		2530	
Selenium	SW6010	1.6	2	39	mg/Kg	1.6		0.75		0.64		0.65		0.87		0.72		0.6	U	0.61	U	0.71	
Vanadium	SW6010	31.5	40.9	7.8	mg/Kg	29.6		25.9		24.2		27.7		21.4		26.3		8.2		19.8		28.1	
Zinc	SW6010	77.5	321.8	2300	mg/Kg	59.9		66.7		71.1		67.9		61.4		66.2		16.9		48.2		62.7	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 4-16 Summary of Metals Detected in Subsurface Soil at Acid Area 3 - 1998 SI

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location / Date / Depth / Units	AA3-SB010 05/02/1998 6.0-8.0 ft.		AA3-SB011 04/30/1998 2.0-4.0 ft.		AA3-SB012 05/01/1998 2.0-4.0 ft.		AA3-SB013 05/01/1998 8.0-10.0 ft.		AA3-SB014 05/01/1998 2.0-4.0 ft.		AA3-SB015 05/01/1998 6.0-8.0 ft.		MNT-SB01 05/03/1998 4.0-6.0 ft.		MNT-SB02 05/02/1998 2.0-4.0 ft.		MNT-SB03 05/02/1998 6.0-8.0 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																							
Aluminum	SW6010	11900	15500	7600	mg/Kg	7500		7300		5790		9690		11100		5620		9370		11900		8350	
Antimony	SW6010	8	9.3	3.1	mg/Kg	7.6	UJ	7.1	UJ	6.9	UJ	7.4	UJ	7.2	UJ	7.4	UJ	7.4	UJ	7.2	UJ	7.5	UJ
Arsenic	SW6010	32.2	36.5	0.39	mg/Kg	6.6		7.5		5.7		10.8		11.6		16.8		5.1		7.6		11.6	
Barium	SW6010	126	826	540	mg/Kg	83.1		33.8		39.5		58.6		79.8		41.2		92.3		88.3		84.2	
Beryllium	SW6010	0.75	1	15	mg/Kg	0.63	U	0.59	U	0.58	U	0.62	U	0.67		0.62	U	0.65		0.75		0.63	U
Calcium	SW6010	64200	52300		mg/Kg	64200		10200	J	3240	J	43900	J	4240	J	59400	J	3940		3800		56100	
Chromium	SW6010	17.6	29		mg/Kg	13.1		12.3		10		14.8		16.2		10.6		14.3		16.8		15	
Cobalt	SW6010	20.2	116	90	mg/Kg	20.2		10		8.3		12.4		18.1		8.2		12.6		14.2		15.6	
Copper	SW6010	25.9	56.2	310	mg/Kg	24.3		12.8		11.2		19.3		23.4		14.8		16.5		18.2		21.4	
Iron	SW6010	34300	234000	2300	mg/Kg	25400		17400		14800		19800		28500		16200		18600		22000		22700	
Lead	SW6010	12.6	48.6	40	mg/Kg	10.4		6.5		6.8		10.1		12		7		9.6		10.3		9.7	
Magnesium	SW6010	21400	10400		mg/Kg	21400		3890		1810		13200		3590		15800		2660		2490		15800	
Manganese	SW6010	1180	3506.2	180	mg/Kg	674		301		173		489		1120		326		392		298		609	
Nickel	SW6010	45	55.1	160	mg/Kg	33		18.5		15.7		25.7		39.8		16.7		18.5		19.9		24.8	
Potassium	SW6010	2550	3390		mg/Kg	1480		588	U	578	U	1480		839		1190		699	J	722		1630	
Selenium	SW6010	1.6	2	39	mg/Kg	0.63	U	0.59	U	0.58	U	0.66		0.81		0.62	U	0.61	U	0.64		0.63	U
Vanadium	SW6010	31.5	40.9	7.8	mg/Kg	26.9		22.5		18.7		27.7		31.5		20.5		21.2		28.5		24.8	
Zinc	SW6010	77.5	321.8	2300	mg/Kg	77.5		39.5		39.5		57.9		68.7		45.5		53.8		61.2		60.2	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-1
Groundwater Level Data - Acid Area 2

Location	Installation Date	Land Elevation	Elevation TOC	Depth to Groundwater (ft bgs)				
				11/8/04	11/10/04	12/2/04	1/23/05	2/21/05
Piezometers								
PZ-01	11/3/2004	642.73	644.43	9.72	10.27	4.1	1.62	2.1
PZ-02	11/3/2004	643.55	645.61	7.14	7.02	3.55	2.16	2.65
PZ-03	11/3/2004	643.64	646.15	18.8	19.25	7.33	1.31	2.33
PZ-04	11/4/2004	640.54	643.06	18.67	18.88	19.57	8.65	3.32
PZ-05	11/4/2004	640.92	642.04	15.05	14.96	7.81	3.32	3.64
Overburden Wells								
AA2-GW-002	9/22/1997	641.50	643.95	16.39	16.46	17.21	3.25	2.53
IT-MW10	9/26/1996	642.20	644.80	15	14.95	13.31	6.4	5.85
MK-MW09	6/29/1993	642.95	645.61				3.19	3.18

Location	Installation Date	Land Elevation	Elevation TOC	Groundwater Level (ft amsl)				
				11/8/04	11/10/04	12/2/04	1/23/05	2/21/05
Piezometers								
PZ-01	11/3/2004	642.73	644.43	633.01	632.46	638.63	641.11	640.63
PZ-02	11/3/2004	643.55	645.61	636.41	636.53	640	641.39	640.9
PZ-03	11/3/2004	643.64	646.15	624.84	624.39	636.31	642.33	641.31
PZ-04	11/4/2004	640.54	643.06	621.87	621.66	620.97	631.89	637.22
PZ-05	11/4/2004	640.92	642.04	625.87	625.96	633.11	637.6	637.28
Overburden Wells								
AA2-GW-002			643.95	625.11	625.04	624.29	638.25	638.97
IT-MW10			644.80	627.2	627.25	628.89	635.80	636.35
MK-MW09			645.61				639.76	639.77
Bedrock Wells								
AA2-BEDGW-001			644.06				629.30	632.84
PB-BED-MW19			642.75				617.29	618.50

Table 5-2
Groundwater Level Data - Acid Area 3

Location	Install Date	Land Elev.	Elevation TOC	Depth to Groundwater (ft bgs)					
				11/8/04	11/10/04	12/2/04	12/10/04	1/20/04	4/20/04
Piezometers									
PZ-01	11/3/04	632.65	634.84	19.68	19.08	12.88	11.44	0.53	1.03
PZ-02	11/3/04	637.02	638.62	7.36	7.24	4.86	5	3.81	4.91
PZ-03	11/3/04	636.43	639.19	9.53	9.38	6.21	6.17	3.47	4.36
PZ-04	11/4/04	635.84	638.71	6.76	6.69	2.29	2.38	2.61	3.43
PZ-05	11/4/04	636.17	638.37	9.2	9.14	5.63	4.21	2.78	3.45
Overburden Wells									
AA3-GW002	9/18/97	634.1	636.11	6.41	6.39	3.01	3.01	2.16	2.84
AA3-GW003	12/3/04	635.86	637.85				2.07	1.55	2.72
AA3-GW004	12/4/04	635.97	638.26				6.69	5.39	6.03
AA3-GW005	12/6/04	636.24	638.31				3.12	2.78	3.71

Location	Install Date	Land Elev.	Elevation TOC	Groundwater Elev. (ft amsl)					
				11/8/04	11/10/04	12/2/04	12/10/04	1/20/04	4/20/04
Piezometers									
PZ-01	11/3/04	632.65	634.84	612.97	613.57	619.77	621.21	632.12	631.62
PZ-02	11/3/04	637.02	638.62	629.66	629.78	632.16	632.02	633.21	632.11
PZ-03	11/3/04	636.43	639.19	626.90	627.05	630.22	630.26	632.96	632.07
PZ-04	11/4/04	635.84	638.71	629.08	629.15	633.55	633.46	633.23	632.41
PZ-05	11/4/04	636.17	638.37	626.97	627.03	630.54	631.96	633.39	632.72
Overburden Wells									
AA3-GW002	9/18/97	634.1	636.11	627.69	627.71	631.09	631.09	631.94	631.26
AA3-GW003	12/3/04	635.86	637.85				633.79	634.31	633.14
AA3-GW004	12/4/04	635.97	638.26				629.28	630.58	629.94
AA3-GW005	12/6/04	636.24	638.31				633.12	633.46	632.53
Bedrock Wells									
AA3-BEDGW-001	10/5/97	634.1	636.43					608.13	609.65
AA3-BEDGW-002	12/16/04	635.91	638.30					608.15	609.69
AA3-BEDGW-003	12/17/04	635.92	638.55					627.79	628.86

Table 5-3 Summary of Organic Compounds
Detected in Shallow Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-GW-002 01/26/05 10.8-20.8 ft. Result	VQ	AA2-GW-002 04/26/05 10.8-20.8 ft. Result	VQ	IT-MW10 11/14/1997 11.8-21.8 ft. Result	VQ	IT-MW10 05/14/98 11.8-21.8 ft. Result	VQ	IT-MW10 02/01/05 11.8-21.8 ft. Result	VQ	IT-MW10 04/28/05 11.8-21.8 ft. Result	VQ	MK-MW09 06/29/93 7.9-17.9 ft. Result	VQ	MK-MW09 11/16/1997 7.9-17.9 ft. Result	VQ
Volatile Organic Compounds																					
Benzene	SW8260	0.117	2.4	0.35	ug/L	0.117	J	0.2	U	1	U	1	U	0.104	U	0.2	U	5	U	1	U
Carbon Disulfide	SW8260	0.17		100	ug/L	0.118	U	0.3	U	0.17	J	1	U	0.118	U	0.3	U	5	U	1	U
Cyclohexane	SW8260	14.8		1000	ug/L	14.8		0.3	U					0.0999	U	0.3	U				
Ethylbenzene	SW8260	0.68	0.87	130	ug/L	0.68	J	0.2	U	1	U	1	U	0.164	U	0.2	U	5	U	1	U
Isopropylbenzene (Cumene)	SW8260	0.325		66	ug/L	0.325	J	0.2	U					0.101	U	0.2	U				
Methylcyclohexane	SW8260	10.2		520	ug/L	10.2		0.2	U					0.107	U	0.2	U				
Methylene Chloride	SW8260	0.55		4.3	ug/L	0.128	U	0.3	U	1	U	0.55	B	0.128	U	0.3	U	5	U	0.3	B
Toluene	SW8260	0.13	1.7	72	ug/L	0.119	U	0.2	U	1	U	1	U	0.119	U	0.2	U	5	U	0.13	B
Xylenes, Total	SW8260	11.9	5.5	21	ug/L	11.9		0.2	U	1	U	1	U	0.307	U	0.2	U	5	U	0.13	B
Semivolatile Organic Compounds																					
bis(2-Ethylhexyl)phthalate	SW8270	5.1		4.8	ug/L	3.49	U	1	UJ	**5.1**	**J**	10	U	3.59	U	1.2	J	12	U	10	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 5-3 Summary of Organic Compounds
Detected in Shallow Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	MK-MW09 05/13/98 7.9-17.9 ft. Result	VQ	MK-MW09 01/24/05 7.9-17.9 ft. Result	VQ	MK-MW09 04/25/05 7.9-17.9 ft. Result	VQ	MK-MW09 (field dup) 04/25/05 7.9-17.9 ft. Result	VQ
Volatile Organic Compounds													
Benzene	SW8260	0.117	2.4	0.35	ug/L	1	U	0.104	U	0.2	U	0.2	U
Carbon Disulfide	SW8260	0.17		100	ug/L	1	U	0.118	U	0.3	U	0.3	U
Cyclohexane	SW8260	14.8		1000	ug/L			0.0999	U	0.3	U	0.3	U
Ethylbenzene	SW8260	0.68	0.87	130	ug/L	1	U	0.164	U	0.2	U	0.2	U
Isopropylbenzene (Cumene)	SW8260	0.325		66	ug/L			0.101	U	0.2	U	0.2	U
Methylcyclohexane	SW8260	10.2		520	ug/L			0.107	U	0.2	U	0.2	U
Methylene Chloride	SW8260	0.55		4.3	ug/L	0.34	B	0.128	U	0.3	U	0.3	U
Toluene	SW8260	0.13	1.7	72	ug/L	1	U	0.119	U	0.2	U	0.2	U
Xylenes, Total	SW8260	11.9	5.5	21	ug/L	1	U	0.307	U	0.2	U	0.2	U
Semivolatile Organic Compounds													
bis(2-Ethylhexyl)phthalate	SW8270	5.1		4.8	ug/L	10	U	3.49	U	1	UJ	1	UJ

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 5-4 Summary of Metals

Detected in Shallow Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-GW-002 01/26/05 10.8-20.8 ft. Result	VQ	AA2-GW-002 04/26/05 10.8-20.8 ft. Result	VQ	IT-MW10 11/14/1997 11.8-21.8 ft. Result	VQ	IT-MW10 05/14/98 11.8-21.8 ft. Result	VQ	IT-MW10 02/01/05 11.8-21.8 ft. Result	VQ	IT-MW10 04/28/05 11.8-21.8 ft. Result	VQ	MK-MW09 06/29/93 7.9-17.9 ft. Result	VQ	MK-MW09 11/16/1997 7.9-17.9 ft. Result	VQ
Metals																					
Aluminum	SW6010	2880	309	3600	ug/L	45.4	U			200	U	200	U	45.4	U			2880	N*	200	U
Aluminum (total)	SW6010	11500	309	3600	ug/L	45.4	U	128	J	1040		**11500**		45.4	U	122	J			282	B
Arsenic (total)	SW6010	36.8	7.4	0.045	ug/L	4.59	U	3	U	10	U	**36.8**		4.59	U	3	U			10	U
Barium	SW6010	73.1	11800	260	ug/L	25.2				200	U	200	U	48.4				73.1	B	200	U
Barium (total)	SW6010	372	11800	260	ug/L	25.9		22.6	J	200	U	372		40.5		44.9	J			200	U
Beryllium (total)	SW6010	0.156		7.3	ug/L	0.156	J	1	U	5	U	5	U	0.109	U	1	U			5	U
Calcium	SW6010	188000	316000		ug/L	106000				188000		188000		176000				81000	B*	106000	J
Calcium (total)	SW6010	185000	316000		ug/L	109000		96600		183000	J	185000		184000		181000				103000	
Chromium (total)	SW6010	39.8			ug/L	0.77	J	2	U	10	U	39.8		0.236	U	2	U			10	U
Cobalt	SW6010	1.29	12.1	73	ug/L	0.898	U			50	U	50	U	0.898	U			20	U	50	U
Cobalt (total)	SW6010	1.62	12.1	73	ug/L	1.53	J	3	U	50	U	50	U	1.62	J	3	U			50	U
Copper	SW6010	50.7	19.8	150	ug/L	4.09	J			25	U	25	U	2.55	U			5	U	25	U
Copper (total)	SW6010	30.8	19.8	150	ug/L	3.1	J	4	U	25	U	30.8		2.55	U	4	U			25	U
Iron	SW6010	4930	1550	1100	ug/L	29.8	J			100	U	100	U	22.9	U			**4930**	N*	329	B
Iron (total)	SW6010	41000	1550	1100	ug/L	22.9	U	36.6	J	**3040**		**41000**		834		155				493	B
Lead	SW6010	2			ug/L	2.44	U			3	U	3	U	2.44	U			2	B	3	U
Lead (total)	SW6010	33.6			ug/L	2.44	U	1.5	U	4.5		33.6		2.44	U	1.5	U			8.5	
Magnesium	SW6010	86300	217000		ug/L	31600				86300		86200		69900				29200		28100	
Magnesium (total)	SW6010	83700	217000		ug/L	32400		27100		83700		83500		73700		69700				27600	
Manganese	SW6010	1630	636	88	ug/L	0.419	U			**1630**		621		49				149	*	15	U
Manganese (total)	SW6010	1670	636	88	ug/L	0.419	U	3	U	**1670**		**1460**		103		222				15	U
Mercury (total)	SW7470	0.091			ug/L	0.0584	U	0.08	U	0.2	U	0.2	U	0.0584	U	0.08	U			0.2	U
Nickel (total)	SW6010	4.5	8.6	73	ug/L	0.745	U	3	U	40	U	40	U	4.15	J	4.5	J			40	U
Potassium	SW6010	2110	116000		ug/L	175	U			5000	U	5000	U	2110				1640	B	5000	U
Potassium (total)	SW6010	5550	116000		ug/L	277	J	500	U	5000	U	5550		2290		2150				5000	U
Sodium	SW6010	50200	1390000		ug/L	13900				50200		26200		21500	J			7860		6470	
Sodium (total)	SW6010	48200	1390000		ug/L	14700		10900		48200		24700		20700	J	19700				6290	
Vanadium (total)	SW6010	54.4		3.6	ug/L	2.14	U	3	U	50	U	**54.4**		2.14	U	3	U			50	U
Zinc	SW6010	30.3	507	1100	ug/L	20.4				20	U	20	U	1.46	U			30.3		20	U
Zinc (total)	SW6010	92.6	507	1100	ug/L	22.8		15.5	J	20	U	92.6	B	1.46	U	5	U			20	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-4 Summary of Metals

Detected in Shallow Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	MK-MW09 05/13/98 7.9-17.9 ft.		MK-MW09 01/24/05 7.9-17.9 ft.		MK-MW09 04/25/05 7.9-17.9 ft.		MK-MW09 (field dup) 04/25/05 7.9-17.9 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals													
Aluminum	SW6010	2880	309	3600	ug/L	200	U	45.4	U				
Aluminum (total)	SW6010	11500	309	3600	ug/L	200	U	45.4	U	1160		1160	J
Arsenic (total)	SW6010	36.8	7.4	0.045	ug/L	10	U	4.59	U	3	U	3	U
Barium	SW6010	73.1	11800	260	ug/L	200	U	27.6					
Barium (total)	SW6010	372	11800	260	ug/L	200	U	29	J	26.1	J	26.7	J
Beryllium (total)	SW6010	0.156		7.3	ug/L	5	U	0.109	U	1	U	1	U
Calcium	SW6010	188000	316000		ug/L	92700		74700					
Calcium (total)	SW6010	185000	316000		ug/L	78500		75700	J	53900		55700	
Chromium (total)	SW6010	39.8			ug/L	10	U	0.236	U	2	U	2	U
Cobalt	SW6010	1.29	12.1	73	ug/L	50	U	1.29	J				
Cobalt (total)	SW6010	1.62	12.1	73	ug/L	50	U	1.17	J	3	U	3	U
Copper	SW6010	50.7	19.8	150	ug/L	50.7		2.55	U				
Copper (total)	SW6010	30.8	19.8	150	ug/L	25	U	2.55	U	4	U	4	U
Iron	SW6010	4930	1550	1100	ug/L	100	U	22.9	U				
Iron (total)	SW6010	41000	1550	1100	ug/L	100	U	22.9	U	1020		1030	
Lead	SW6010	2			ug/L	3	U	2.44	U				
Lead (total)	SW6010	33.6			ug/L	3	U	2.44	U	1.5	U	1.5	U
Magnesium	SW6010	86300	217000		ug/L	25500		20400					
Magnesium (total)	SW6010	83700	217000		ug/L	21100		20700	J	13700		14100	
Manganese	SW6010	1630	636	88	ug/L	15	U	0.7	J				
Manganese (total)	SW6010	1670	636	88	ug/L	15	U	0.419	U	6.6	J	6.5	J
Mercury (total)	SW7470	0.091			ug/L	0.2	U	0.0584	U	0.091	J	0.08	U
Nickel (total)	SW6010	4.5	8.6	73	ug/L	40	U	0.745	U	3	U	3	U
Potassium	SW6010	2110	116000		ug/L	5000	U	719	J				
Potassium (total)	SW6010	5550	116000		ug/L	5000	U	704	J	629	J	630	J
Sodium	SW6010	50200	1390000		ug/L	5760		3140					
Sodium (total)	SW6010	48200	1390000		ug/L	5000	U	3190	J	2750		2850	
Vanadium (total)	SW6010	54.4		3.6	ug/L	50	U	2.14	U	3	U	3	U
Zinc	SW6010	30.3	507	1100	ug/L	20	U	1.46	U				
Zinc (total)	SW6010	92.6	507	1100	ug/L	29	B	1.46	U	10.6	J	11.7	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 5-5 Summary of Organic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-BEDGW-001 11/20/1997 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 05/12/1998 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 10/8/2001 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/10/2002 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 01/27/2005 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/26/2005 30.3-45.3 ft. Result	VQ	PB-BED-MW19 12/14/1994 26.2-51.2 ft. Result	VQ
Explosives																			
1,3,5-Trinitrobenzene	SW8330	0.8		110	ug/L	0.2	U	0.2	U	0.11	U	0.11	U	0.048	U	0.16	J	0.8	
1,3-Dinitrobenzene	SW8330	0.81		0.36	ug/L	0.2	U	**0.81**		0.08	U	0.08	U	0.0651	U	0.077	U	0.15	
2,4,6-Trinitrotoluene	SW8330	1.6		2.2	ug/L	0.2	U	0.2	U	1.6		0.08	U	0.139	U	0.077	U	0.64	
2,4-Dinitrotoluene	SW8330	2.5		7.3	ug/L	0.2	U	2.5		0.07	U	0.07	U	0.104	U	0.1	U	0.3	
2,6-Dinitrotoluene	SW8330	1.2		3.6	ug/L	0.2	U	1.2		0.11	U	0.11	U	0.195	U	0.1	U	0.2	
DNT	SW8330	3.7		0.099	ug/L		U	**3.7**			U		U		U		U	**0.5**	
2-Nitrotoluene	SW8330	1.2		0.049	ug/L	0.31	U	0.2	U	0.14	U	0.14	U	0.2	U	0.077	U	**1.2**	
3-Nitrotoluene	SW8330	8.1		12	ug/L	0.2	U	0.2	U	0.13	U	0.13	U	0.368	U	0.14	J	8.1	
Nitrobenzene	SW8330	0.5		0.34	ug/L	0.2	U	0.2	U	0.07	U	0.07	U	0.108	U	0.085	U	0.65	
RDX	SW8330	0.17		0.61	ug/L	0.5	U	0.5	U	0.13	U	0.13	U	0.0838	U	0.14	J		
Tetryl	SW8330	0.088		36	ug/L	0.2	U	0.2	U	0.17	U	0.17	U	0.205	U	0.088	J		
Semivolatile Organic Compounds																			
2,4-Dimethylphenol	SW8270	8.6		73	ug/L	1.3	J	8.6	J	2.5	J	1.8	J	4.48	UJ	1	UJ	10	U
2-Methylnaphthalene	SW8270	12			ug/L	1.3	J	5.6	J	9.8	J	3.2	J	2.08	U	1	UJ	10	U
2-Methylphenol (o-Cresol)	SW8270	1.6		180	ug/L	10	U	1.6	J	0.8	U	0.8	U	4.18	U	1	UJ	10	U
4-Methylphenol (p-Cresol)	SW8270	1.6		18	ug/L	10	U	1.6	J	0.85	U	0.85	U	4.52	U	1	UJ	10	U
Naphthalene	SW8270	12		0.62	ug/L	10	U	**8.1**	**J**	**12**		**2.5**	**J**	**1.09**	**J**	1	UJ	10	U
Phenanthrene	SW8270	0.89			ug/L	10	U	10	U	0.72	U	0.72	U	0.691	U	1	UJ	10	U
Phenol	SW8270	74		1100	ug/L	10	U	74		2.2	J	0.82	U	4.31	U	1	UJ	10	U
bis(2-Ethylhexyl)phthalate	SW8270	24		4.8	ug/L	10	U	**5.6**	**B**	0.8	U	2	J	3.52	U	1	UJ	3	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-5 Summary of Organic Compounds
Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-BEDGW-001 11/20/1997 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 05/12/1998 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 10/8/2001 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/10/2002 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 01/27/2005 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/26/2005 30.3-45.3 ft. Result	VQ	PB-BED-MW19 12/14/1994 26.2-51.2 ft. Result	VQ
Volatile Organic Compounds																			
1,1,2-Trichloroethane	SW8260	0.33		0.2	ug/L	25	U	5	U	20	U	1	U	0.139	U	0.2	U		
2-Butanone (Methyl ethyl ketone)	SW8260	18		700	ug/L	120	U	18	J					0.815	U	4	U	20	
Acetone	SW8260	220		550	ug/L	250	U	41	J	54	B			1.73	U	2	U	59	
Benzene	SW8260	130	2.4	0.35	ug/L	**33**		**130**		**45**	**J**	**4.8**	**J**	0.439	J	1.6		**5**	
Bromomethane	SW8260	7.9		0.87	ug/L	50	U	10	U	18	UJ	0.9	U	0.101	U	0.4	UJ	2	
Carbon Disulfide	SW8260	26		100	ug/L	5.5	J	1.7	J	10	U	0.84	J	0.257	J	0.3	U	26	
Chlorobenzene	SW8260	21		11	ug/L	**21**	**J**	5	U	24	U	1.2	U	0.115	U	0.2	U	1	
Chloromethane	SW8260	30		16	ug/L	50	U	10		**30**	**J**	0.5	U	0.142	U	0.4	UJ	2	
Cyclohexane	SW8260	55		1000	ug/L									24.2		7.8			
Ethylbenzene	SW8260	64	0.87	130	ug/L	23	J	43		64	J	13		1.48		1.4		3	
Isopropylbenzene (Cumene)	SW8260	1.3		66	ug/L									0.737	J	0.54	J		
Methylcyclohexane	SW8260	30.3		520	ug/L									14.5		4			
Methylene Chloride	SW8260	100		4.3	ug/L	**7.4**	**B**	3.2	B	**100**	**J**	3.9	J	0.128	U	0.3	U	1	
Toluene	SW8260	32	1.7	72	ug/L	32	B	20		25	U	2.2	J	0.192	J	0.32	J	5	
Xylenes, Total	SW8260	360	5.5	21	ug/L	**200**		**220**		**360**		**98**		17.9		11		**26**	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-5 Summary of Organic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 11/14/1997 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/16/1998 26.2-51.2 ft. Result	VQ
Explosives																	
1,3,5-Trinitrobenzene	SW8330	0.8		110	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,3-Dinitrobenzene	SW8330	0.81		0.36	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.22		0.2	U
2,4,6-Trinitrotoluene	SW8330	1.6		2.2	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2,4-Dinitrotoluene	SW8330	2.5		7.3	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2,6-Dinitrotoluene	SW8330	1.2		3.6	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
DNT	SW8330	3.7		0.099	ug/L		U		U		U		U		U		U
2-Nitrotoluene	SW8330	1.2		0.049	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
3-Nitrotoluene	SW8330	8.1		12	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.62	
Nitrobenzene	SW8330	0.5		0.34	ug/L	**0.5**		**0.4**		**0.44**		**0.4**		0.32		0.2	U
RDX	SW8330	0.17		0.61	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetryl	SW8330	0.088		36	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Semivolatile Organic Compounds																	
2,4-Dimethylphenol	SW8270	8.6		73	ug/L	10	U			10	U			10	U	10	U
2-Methylnaphthalene	SW8270	12			ug/L	3.5	J			3.6	J			3.3	J	1.5	J
2-Methylphenol (o-Cresol)	SW8270	1.6		180	ug/L	10	U			10	U			10	U	10	U
4-Methylphenol (p-Cresol)	SW8270	1.6		18	ug/L	10	U			10	U			10	U	10	U
Naphthalene	SW8270	12		0.62	ug/L	**2.2**	**J**			**2.5**	**J**			**2.1**	**J**	10	U
Phenanthrene	SW8270	0.89			ug/L	10	U			10	U			10	U	10	U
Phenol	SW8270	74		1100	ug/L	10	U			10	U			55		10	U
bis(2-Ethylhexyl)phthalate	SW8270	24		4.8	ug/L	10	U			10	U			**5.8**	**J**	**24**	**B**

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-5 Summary of Organic Compounds
Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 11/14/1997 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/16/1998 26.2-51.2 ft. Result	VQ
Volatile Organic Compounds																	
1,1,2-Trichloroethane	SW8260	0.33		0.2	ug/L	5	U			5	U			1	U	5	U
2-Butanone (Methyl ethyl ketone)	SW8260	18		700	ug/L					20	U						
Acetone	SW8260	220		550	ug/L					20	U			68	J		
Benzene	SW8260	130	2.4	0.35	ug/L	**3.7**	**J**			**3.1**	**J**			**11**		1.9	J
Bromomethane	SW8260	7.9		0.87	ug/L	10	U			10	U			2	U	10	U
Carbon Disulfide	SW8260	26		100	ug/L	5	U			5	U			2		6.9	
Chlorobenzene	SW8260	21		11	ug/L	5	U			5	U			1	U	5	U
Chloromethane	SW8260	30		16	ug/L	10	U			10	U			2	U	10	U
Cyclohexane	SW8260	55		1000	ug/L												
Ethylbenzene	SW8260	64	0.87	130	ug/L	2.4	J			1.6	J			5.1		1.2	J
Isopropylbenzene (Cumene)	SW8260	1.3		66	ug/L												
Methylcyclohexane	SW8260	30.3		520	ug/L												
Methylene Chloride	SW8260	100		4.3	ug/L	5	U			5	U			1	U	2.3	B
Toluene	SW8260	32	1.7	72	ug/L	2	J			1.5	J			8.9		1.5	B
Xylenes, Total	SW8260	360	5.5	21	ug/L	19				14				**38**		10	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-5 Summary of Organic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/4/2001 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/4/2001 26.2-51.2 ft. Result	VQ	PB-BED-MW19 04/04/2002 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/05/2004 26.2-51.2 ft. Result	VQ	PB-BED-MW19 01/24/2005 26.2-51.2 ft. Result	VQ	PB-BED-MW19 04/25/2005 26.2-51.2 ft. Result	VQ
Explosives																	
1,3,5-Trinitrobenzene	SW8330	0.8		110	ug/L	0.11	U	0.11	U	0.11	U	0.049	U	0.048	UJ	0.096	U
1,3-Dinitrobenzene	SW8330	0.81		0.36	ug/L	0.08	U	0.08	U	0.08	U	0.04	U	0.0651	UJ	0.096	U
2,4,6-Trinitrotoluene	SW8330	1.6		2.2	ug/L	0.08	U	0.08	U	0.08	U	0.13	U	0.139	UJ	0.096	U
2,4-Dinitrotoluene	SW8330	2.5		7.3	ug/L	0.07	U	0.07	U	0.07	U	0.09	U	0.104	UJ	0.12	U
2,6-Dinitrotoluene	SW8330	1.2		3.6	ug/L	0.11	UJ	0.11	UJ	0.11	U	0.073	U	0.195	UJ	0.12	U
DNT	SW8330	3.7		0.099	ug/L		U		U		U		U		U		U
2-Nitrotoluene	SW8330	1.2		0.049	ug/L	0.14	U	0.14	U	0.14	U	0.12	U	0.2	UJ	0.096	U
3-Nitrotoluene	SW8330	8.1		12	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.368	UJ	0.15	J
Nitrobenzene	SW8330	0.5		0.34	ug/L	0.07	U	0.07	U	0.07	U	0.049	U	0.108	UJ	0.1	U
RDX	SW8330	0.17		0.61	ug/L	0.13	U	0.13	U	0.17	J	0.067	U	0.0838	UJ	0.096	U
Tetryl	SW8330	0.088		36	ug/L	0.17	U	0.17	U			0.06	UJ	0.205	UJ	0.096	U
Semivolatile Organic Compounds																	
2,4-Dimethylphenol	SW8270	8.6		73	ug/L	0.59	U	0.59	U	0.59	U	3.7	U	4.44	UJ	1.1	UJ
2-Methylnaphthalene	SW8270	12			ug/L	12		12		10		5.2	J	2.08	J	1.3	J
2-Methylphenol (o-Cresol)	SW8270	1.6		180	ug/L	0.8	U	0.8	U	0.8	U	2	U	4.14	U	1.1	UJ
4-Methylphenol (p-Cresol)	SW8270	1.6		18	ug/L	0.85	U	0.85	U	0.85	U	3.6	U	4.48	U	1.1	UJ
Naphthalene	SW8270	12		0.62	ug/L	**8.6**	**J**	**8.9**	**J**	**6.1**	**J**	**3.7**	**J**	**1.57**	**J**	1.1	UJ
Phenanthrene	SW8270	0.89			ug/L	0.82	J	0.89	J	0.74	J	0.84	UJ	0.684	U	1.1	UJ
Phenol	SW8270	74		1100	ug/L	1.2	J	1.3	J	0.82	U	1.8	U	4.27	U	1.1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	24		4.8	ug/L	0.8	U	1.6	J	**9.7**	**J**	2.2	UJ	3.49	U	1.1	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-5 Summary of Organic Compounds
Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/4/2001 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/4/2001 26.2-51.2 ft. Result	VQ	PB-BED-MW19 04/04/2002 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/05/2004 26.2-51.2 ft. Result	VQ	PB-BED-MW19 01/24/2005 26.2-51.2 ft. Result	VQ	PB-BED-MW19 04/25/2005 26.2-51.2 ft. Result	VQ
Volatile Organic Compounds																	
1,1,2-Trichloroethane	SW8260	0.33		0.2	ug/L	6.7	U	4	U	10	U	5	UJ	0.139	U	**0.33**	**J**
2-Butanone (Methyl ethyl ketone)	SW8260	18		700	ug/L									0.815	U	4	U
Acetone	SW8260	220		550	ug/L	66	B	59	B			220	B	1.73	U	2	U
Benzene	SW8260	130	2.4	0.35	ug/L	**46**		**54**		**42**	**J**	**18**	**J**	**6.73**		**6.6**	
Bromomethane	SW8260	7.9		0.87	ug/L	**7.9**	**J**	3.6	UJ	9	U	7.6	U	0.101	U	0.4	UJ
Carbon Disulfide	SW8260	26		100	ug/L	3.3	U	2.1	J	5	U	3.2	J	0.203	J	0.38	J
Chlorobenzene	SW8260	21		11	ug/L	8	U	4.8	U	12	U	2.2	J	0.115	U	0.2	U
Chloromethane	SW8260	30		16	ug/L	3.3	U	2	U	5	U	2.4	UJ	0.142	U	0.4	UJ
Cyclohexane	SW8260	55		1000	ug/L									55		38	
Ethylbenzene	SW8260	64	0.87	130	ug/L	17	J	19	J	16	J	6.8	J	3.04		3.3	
Isopropylbenzene (Cumene)	SW8260	1.3		66	ug/L									1.23		1.3	
Methylcyclohexane	SW8260	30.3		520	ug/L									30.3		21	
Methylene Chloride	SW8260	100		4.3	ug/L	**30**	**J**	**7.4**	**J**	**9.7**	**J**	**7.3**	**J**	0.128	U	0.3	U
Toluene	SW8260	32	1.7	72	ug/L	21	J	24		18	J	8	J	1.73		1.8	
Xylenes, Total	SW8260	360	5.5	21	ug/L	**180**		**210**		**170**		**66**		**22.6**		**22**	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-6 Summary of Inorganic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-BEDGW-001 11/20/1997 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 05/12/1998 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 10/8/2001 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/10/2002 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 01/27/2005 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/26/2005 30.3-45.3 ft. Result	VQ
Wet Chemistry																	
Alkalinity, Total (as CaCO3)	E310.1	1050			mg/L	510		600		552	J	586		590		568	
Chloride (as Cl)	E325.2	373			mg/L	47		53	J	68.1		56					
Chloride (as Cl)	E300	239			mg/L									42.4	J	36.1	
Cyanide	SW9012	109		73	ug/L					3	U	3	U	7	UJ	5	U
Cyanide	SW9010	16		73	ug/L	10	U	10	U								
Hardness (as CACO3)	E200.7	741			mg/L											446	
Hardness (as CACO3)	E130.2	1700			mg/L	700		860		360		700		669			
Nitrogen, Nitrate (as N)	E300	264		1000	ug/L									143		25	U
Nitrogen, Nitrate (as N)	UNK	0.2		1000	ug/L												
Sulfate (as SO4)	E300	17.3			mg/L									6.41	J	17.3	
Sulfate (as SO4)	E375.4	70			mg/L	48		70	J	31.7		32.7					
Suspended Solids (residue, Non-filterable)	E160.2	199			mg/L	4		4	U	113		22		4	U	4	U
Total Dissolved Solids	E160.1	1200			mg/L	750		310		716		712		680		701	
Total Organic Carbon	SW9060	16			mg/L	7.4		6	J	3.1		3.1		1.49		0.97	J
Turbidity	E180.1	662			NTU					313	J	137		30.6		54.7	
Metals																	
Aluminum	SW6010	378	309	3600	ug/L	200	U	200	U	75.6	B	42.6	J	45.4	U		
Aluminum (total)	SW6010	10200	309	3600	ug/L	1060	J	**10200**		1170	J	195	B	45.4	U	103	J
Antimony	SW6010	8		1.5	ug/L	60	U	60	U	7	U	7	U	8.16	U		
Arsenic	SW6010	9	7.4	0.045	ug/L	10	U	10	U	3.7	J	**9**	**J**	7.04	J		
Arsenic (total)	SW6010	34.2	7.4	0.045	ug/L	10	U	**34.2**		**9.1**	**J**	6.6	J	**7.95**	**J**	3	U
Barium	SW6010	2110	11800	260	ug/L	212		279		724		336		280			
Barium (total)	SW6010	2260	11800	260	ug/L	220		645		843		368		275		251	
Beryllium	SW6010	0.56		7.3	ug/L	5	U	5	U	0.56	B	0.5	U	0.109	U		
Calcium	SW6010	231000	316000		ug/L	88600		70400		59300		89900		88800			
Calcium (total)	SW6010	1970000	316000		ug/L	186000	J	1970000		81800		99400		85100		92100	
Chromium (total)	SW6010	307			ug/L	10	U	307		2.4	J	1.3	J	0.236	U	2	U
Cobalt	SW6010	3.4	12.1	73	ug/L	50	U	50	U	2.3	U	3.4	J	0.898	U		
Cobalt (total)	SW6010	63.3	12.1	73	ug/L	50	U	63.3		5.9	J	9.2	J	1.21	J	3	U
Copper (total)	SW6010	99	19.8	150	ug/L	25	U	62.7		3.6	B	1.9	U	2.55	U	4	U
Iron	SW6010	1300	1550	1100	ug/L	106	B	100	U	1300		124	J	131	J		
Iron (total)	SW6010	51600	1550	1100	ug/L	**5240**		**51600**		**7210**		**2020**	**J**	913		80.1	J
Lead (total)	SW6010	38.6			ug/L	6.5	B	38.6		1.7	U	1.7	U	2.44	U	1.5	U
Magnesium	SW6010	117000	217000		ug/L	54800		54300		54600		57100		53500			
Magnesium (total)	SW6010	132000	217000		ug/L	56900		132000		60000		58000		50600		52500	
Manganese	SW6010	995	636	88	ug/L	351		**995**		**946**		207		93.8			
Manganese (total)	SW6010	5130	636	88	ug/L	522		**5130**		**1030**		228		90.6		105	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold shaded values represent PRG exceedances

Table 5-6 Summary of Inorganic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA2-BEDGW-001 11/20/1997 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 05/12/1998 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 10/8/2001 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/10/2002 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 01/27/2005 30.3-45.3 ft. Result	VQ	AA2-BEDGW-001 04/26/2005 30.3-45.3 ft. Result	VQ
Nickel	SW6010	8.7	8.6	73	ug/L	40	U	40	U	1.9	U	1.9	U	0.745	U		
Nickel (total)	SW6010	238	8.6	73	ug/L	40	U	**238**		3.7	J	4	J	0.745	U	3	U
Potassium	SW6010	46200	116000		ug/L	30000		31200		27500	J	29600		26900			
Potassium (total)	SW6010	49500	116000		ug/L	29100		34200		30100	J	28900		25800		26500	
Selenium	SW6010	2.6		18	ug/L	5	U	5	U	3.8	U	3.8	U	11.1	UJ		
Sodium	SW6010	161000	1390000		ug/L	104000		124000		127000		103000		90200			
Sodium (total)	SW6010	173000	1390000		ug/L	99100	J	124000		132000		100000		91600		82000	
Thallium	SW6010	4.4		0.24	ug/L	10	U	10	U	4.8	U	4.8	U	14.1	U		
Thallium (total)	SW6010	5.3		0.24	ug/L	10	U	10	U	**5.3**	**B**	**5.2**	**B**	14.1	U	3	U
Vanadium	SW6010	51.8		3.6	ug/L	50	U	50	U	1.8	U	1.8	U	2.14	U		
Vanadium (total)	SW6010	108		3.6	ug/L	50	U	**108**		1.8	U	1.8	U	2.14	U	3	U
Zinc	SW6010	66.2	507	1100	ug/L	66.2	J	29.1	B	7.1	J	5	J	1.46	U		
Zinc (total)	SW6010	144	507	1100	ug/L	55		137	B	10.2	J	6.2	J	19.1	J	8.1	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 5-6 Summary of Inorganic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 12/14/1994 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 11/14/1997 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/16/1998 26.2-51.2 ft. Result	VQ
Wet Chemistry																	
Alkalinity, Total (as CaCO3)	E310.1	1050			mg/L									310		750	
Chloride (as Cl)	E325.2	373			mg/L									330		280	
Chloride (as Cl)	E300	239			mg/L												
Cyanide	SW9012	109		73	ug/L												
Cyanide	SW9010	16		73	ug/L							10	U	10	U	16	
Hardness (as CACO3)	E200.7	741			mg/L												
Hardness (as CACO3)	E130.2	1700			mg/L									1700		750	
Nitrogen, Nitrate (as N)	E300	264		1000	ug/L												
Nitrogen, Nitrate (as N)	UNK	0.2		1000	ug/L	0.2											
Sulfate (as SO4)	E300	17.3			mg/L												
Sulfate (as SO4)	E375.4	70			mg/L									14		49	
Suspended Solids (residue, Non-filterable)	E160.2	199			mg/L									41		5	
Total Dissolved Solids	E160.1	1200			mg/L									1200		590	
Total Organic Carbon	SW9060	16			mg/L									16		9	
Turbidity	E180.1	662			NTU												
Metals																	
Aluminum	SW6010	378	309	3600	ug/L					378		200	U	200	U	200	U
Aluminum (total)	SW6010	10200	309	3600	ug/L			200	U			200	U	200	U	200	U
Antimony	SW6010	8		1.5	ug/L	**8**				60	U	60	U	60	U	60	U
Arsenic	SW6010	9	7.4	0.045	ug/L	10				10	U	10	U	10	U	10	U
Arsenic (total)	SW6010	34.2	7.4	0.045	ug/L	10		10	U			10	U	10	U	10	U
Barium	SW6010	2110	11800	260	ug/L					1940		2110		1520		1740	
Barium (total)	SW6010	2260	11800	260	ug/L			2130				2260		1520		1800	
Beryllium	SW6010	0.56		7.3	ug/L	1				5	U	5	U	5	U	5	U
Calcium	SW6010	231000	316000		ug/L					210000		231000		220000		162000	
Calcium (total)	SW6010	1970000	316000		ug/L			228000				245000		255000	J	171000	
Chromium (total)	SW6010	307			ug/L	10		13.8				10.7		10		10	U
Cobalt	SW6010	3.4	12.1	73	ug/L					50	U	50	U	50	U	50	U
Cobalt (total)	SW6010	63.3	12.1	73	ug/L			50	U			50	U	50	U	50	U
Copper (total)	SW6010	99	19.8	150	ug/L	22		25	U			25	U	61.7		25	U
Iron	SW6010	1300	1550	1100	ug/L					100	U	100	U	100	U	100	U
Iron (total)	SW6010	51600	1550	1100	ug/L			129				100	U	376	B	141	J
Lead (total)	SW6010	38.6			ug/L	3		3	U			3	U	6.8		3	U
Magnesium	SW6010	117000	217000		ug/L					107000		117000		65100		77900	
Magnesium (total)	SW6010	132000	217000		ug/L			117000	J			125000	J	57200		80000	
Manganese	SW6010	995	636	88	ug/L	40				16.5		17.2		15	U	16.3	
Manganese (total)	SW6010	5130	636	88	ug/L	40		20.5				21.7		30.4		15	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold shaded values represent PRG exceedances

Table 5-6 Summary of Inorganic Compounds
Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 12/14/1994 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 (field dup) 10/17/1996 26.2-51.2 ft. Result	VQ	PB-BED-MW19 11/14/1997 26.2-51.2 ft. Result	VQ	PB-BED-MW19 05/16/1998 26.2-51.2 ft. Result	VQ
Nickel	SW6010	8.7	8.6	73	ug/L	20				40	U	40	U	40	U	40	U
Nickel (total)	SW6010	238	8.6	73	ug/L	20		40	U			40	U	40	U	40	U
Potassium	SW6010	46200	116000		ug/L					32300		33900		46200		24800	
Potassium (total)	SW6010	49500	116000		ug/L			37400				41600		49500		26000	
Selenium	SW6010	2.6		18	ug/L	10				5	U	5	U	5	U	5	U
Sodium	SW6010	161000	1390000		ug/L					147000	J	161000	J	125000		127000	
Sodium (total)	SW6010	173000	1390000		ug/L			162000	J			173000	J	120000		129000	
Thallium	SW6010	4.4		0.24	ug/L	0.5				10	U	10	U	10	U	10	U
Thallium (total)	SW6010	5.3		0.24	ug/L	**0.6**		10	U			10	U	10	U	10	U
Vanadium	SW6010	51.8		3.6	ug/L					50	U	**51.8**		50	U	50	U
Vanadium (total)	SW6010	108		3.6	ug/L			50	U			50	U	50	U	50	U
Zinc	SW6010	66.2	507	1100	ug/L	20				20	U	20	U	57.4		24.4	B
Zinc (total)	SW6010	144	507	1100	ug/L	24		30	J			29.6	J	62.3		29.5	B

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 5-6 Summary of Inorganic Compounds Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/4/2001 26.2-51.2 ft.		PB-BED-MW19 (field dup) 10/4/2001 26.2-51.2 ft.		PB-BED-MW19 04/04/2002 26.2-51.2 ft.		PB-BED-MW19 05/05/2004 26.2-51.2 ft.		PB-BED-MW19 01/24/2005 26.2-51.2 ft.		PB-BED-MW19 04/25/2005 26.2-51.2 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																	
Alkalinity, Total (as CaCO3)	E310.1	1050			mg/L	707	J			302		1050	J	690		745	
Chloride (as Cl)	E325.2	373			mg/L	248	J			373	J	229					
Chloride (as Cl)	E300	239			mg/L									177		239	
Cyanide	SW9012	109		73	ug/L	3	UJ			3	U	3	UJ	**109**	**J**	5	U
Cyanide	SW9010	16		73	ug/L												
Hardness (as CACO3)	E200.7	741			mg/L											741	
Hardness (as CACO3)	E130.2	1700			mg/L	905				424		662		846			
Nitrogen, Nitrate (as N)	E300	264		1000	ug/L									264		25	U
Nitrogen, Nitrate (as N)	UNK	0.2		1000	ug/L												
Sulfate (as SO4)	E300	17.3			mg/L									3.75	J	1.4	
Sulfate (as SO4)	E375.4	70			mg/L	27.7	J			32.2		21					
Suspended Solids (residue, Non-filterable)	E160.2	199			mg/L	199				44		32		5		4	U
Total Dissolved Solids	E160.1	1200			mg/L	1110				651		887		1000		1140	
Total Organic Carbon	SW9060	16			mg/L	8.6				5.9		5.6		5.24		2.9	
Turbidity	E180.1	662			NTU	662	J			164		220		34.4		89.3	
Metals																	
Aluminum	SW6010	378	309	3600	ug/L	86	B	76.7	B	66.6	B	45.2	J	45.4	U		
Aluminum (total)	SW6010	10200	309	3600	ug/L	94.8	B	89	B	56.2	J	61.7	J	45.4	U	100	U
Antimony	SW6010	8		1.5	ug/L	7	U	7	UJ	7	U	4	U	8.16	U		
Arsenic	SW6010	9	7.4	0.045	ug/L	2.5	U	2.5	UJ	2.5	U	2.6	U	4.59	U		
Arsenic (total)	SW6010	34.2	7.4	0.045	ug/L	2.5	U	2.5	U	2.5	U	2.6	U	4.59	U	3	U
Barium	SW6010	2110	11800	260	ug/L	1080		1090	J	852		1050		1570			
Barium (total)	SW6010	2260	11800	260	ug/L	1060		982		892		1120		1640	J	1620	
Beryllium	SW6010	0.56		7.3	ug/L	0.5	U	0.5	UJ	0.5	U	0.56	U	0.109	U		
Calcium	SW6010	231000	316000		ug/L	202000		200000	J	109000		170000		150000			
Calcium (total)	SW6010	1970000	316000		ug/L	221000		207000		121000		184000		148000	J	165000	
Chromium (total)	SW6010	307			ug/L	1.2	J	1.2	U	1.2	U	2.8	U	0.236	U	2	U
Cobalt	SW6010	3.4	12.1	73	ug/L	2.3	U	2.3	UJ	2.3	U	2	U	1.27	J		
Cobalt (total)	SW6010	63.3	12.1	73	ug/L	2.3	U	2.3	U	2.3	U	2	U	0.898	U	3	U
Copper (total)	SW6010	99	19.8	150	ug/L	99		89.9		15.6	J	52.2		2.55	U	4	U
Iron	SW6010	1300	1550	1100	ug/L	36.1	U	36.1	UJ	36.1	U	45.8	U	22.9	U		
Iron (total)	SW6010	51600	1550	1100	ug/L	149		143		36.1	U	45.8	U	22.9	U	30	U
Lead (total)	SW6010	38.6			ug/L	1.7	U	1.7	U	1.7	U	1.6	U	2.44	U	1.5	U
Magnesium	SW6010	117000	217000		ug/L	81000		81500	J	44000		44800		72500			
Magnesium (total)	SW6010	132000	217000		ug/L	66200		65000		41900		44600		71300	J	80000	
Manganese	SW6010	995	636	88	ug/L	4	J	3.5	J	2.5	J	2.2	J	10.2			
Manganese (total)	SW6010	5130	636	88	ug/L	2.2	J	1.9	J	2.2	J	1.6	U	8.49	J	8.1	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold shaded values represent PRG exceedances

Table 5-6 Summary of Inorganic Compounds
Detected in Bedrock Groundwater at Acid Area 2

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	PB-BED-MW19 10/4/2001 26.2-51.2 ft.		PB-BED-MW19 (field dup) 10/4/2001 26.2-51.2 ft.		PB-BED-MW19 04/04/2002 26.2-51.2 ft.		PB-BED-MW19 05/05/2004 26.2-51.2 ft.		PB-BED-MW19 01/24/2005 26.2-51.2 ft.		PB-BED-MW19 04/25/2005 26.2-51.2 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Nickel	SW6010	8.7	8.6	73	ug/L	7.9	J	8.7	J	4.3	J	7.9	J	0.745	U		
Nickel (total)	SW6010	238	8.6	73	ug/L	13.8	J	12.7	J	3.5	J	9.2	J	0.745	U	3	U
Potassium	SW6010	46200	116000		ug/L	42100		41800	J	42900	J	36500	J	26000			
Potassium (total)	SW6010	49500	116000		ug/L	43800		41400		41500	J	36500	J	25400		29100	
Selenium	SW6010	2.6		18	ug/L	3.8	U	3.8	UJ	3.8	U	2.6	B	11.1	UJ		
Sodium	SW6010	161000	1390000		ug/L	94900		95600	J	92900		75400	J	118000			
Sodium (total)	SW6010	173000	1390000		ug/L	75400		71700		88400		74300	J	118000	J	152000	
Thallium	SW6010	4.4		0.24	ug/L	4.8	U	4.8	UJ	4.8	U	**4.4**	**B**	14.1	U		
Thallium (total)	SW6010	5.3		0.24	ug/L	4.8	U	4.8	U	4.8	U	**5.1**	**B**	14.1	U	3	U
Vanadium	SW6010	51.8		3.6	ug/L	1.8	U	1.8	UJ	1.8	U	3.6	U	2.14	U		
Vanadium (total)	SW6010	108		3.6	ug/L	1.8	U	1.8	U	1.8	U	3.6	U	2.14	U	3	U
Zinc	SW6010	66.2	507	1100	ug/L	5.2	J	2.6	UJ	3.1	J	2.4	U	1.46	U		
Zinc (total)	SW6010	144	507	1100	ug/L	144		135		31.3		65.9		1.46	U	5	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold shaded values represent PRG exceedances

Table 5-7 Summary of Analytes
Detected in Shallow Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA3-GW-002 11/19/1997 0.0-0.0 ft.		AA3-GW-002 05/14/98 0.0-0.0 ft.		AA3-GW-002 01/21/05 8.3-18.3 ft.		AA3-GW-002 04/21/05 8.3-18.3 ft.		AA3-GW-002 (field dup) 04/21/05 8.3-18.3 ft.		AA3-GW-003 01/25/05 10.0-20.0 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																	
Aluminum (total)	SW6010	11600	309	3600	ug/L	**11600**	J	200	U	45.4	U	100	U	100	U	45.4	U
Arsenic	SW6010	12.5	7.4	0.045	ug/L	10	U	10	U	4.59	U					4.59	U
Arsenic (total)	SW6010	12.1	7.4	0.045	ug/L	**10.3**		10	U	4.59	U	3	U	3	U	4.59	U
Barium	SW6010	198	11800	260	ug/L	200	U	200	U	53.4						89.8	
Barium (total)	SW6010	237	11800	260	ug/L	200	U	200	U	56.4	J	55.3	J	54.7	J	92.9	
Calcium	SW6010	166000	316000		ug/L	131000		118000		115000						164000	
Calcium (total)	SW6010	205000	316000		ug/L	205000		118000		119000	J	124000		120000		165000	
Chromium (total)	SW6010	22.8			ug/L	22.8		10	U	0.695	J	2	U	2	U	0.236	U
Cobalt	SW6010	2.79	12.1	73	ug/L	50	U	50	U	1.44	J					2.79	J
Cobalt (total)	SW6010	2.63	12.1	73	ug/L	50	U	50	U	1.66	J	3	U	3	U	2.6	J
Copper	SW6010	44.2	19.8	150	ug/L	25	U	25	U	2.55	U					2.55	U
Copper (total)	SW6010	33.6	19.8	150	ug/L	33.6		25	U	2.55	U	4	U	4	U	2.55	U
Iron	SW6010	64.9	1550	1100	ug/L	100	U	100	U	22.9	U					39.9	J
Iron (total)	SW6010	27300	1550	1100	ug/L	**27300**		100	U	22.9	U	30	U	30	U	22.9	U
Lead (total)	SW6010	16.6			ug/L	16.6		3	U	2.44	U	1.5	U	1.5	U	2.44	U
Magnesium	SW6010	55200	217000		ug/L	29300		28100		25400						54700	
Magnesium (total)	SW6010	56500	217000		ug/L	52100		28000		26100	J	24900		24800		55200	
Manganese	SW6010	296	636	88	ug/L	78.8		139		0.567	J					295	
Manganese (total)	SW6010	816	636	88	ug/L	**816**		123		0.419	U	3	U	3	U	324	
Mercury (total)	SW7470	0.091			ug/L	0.2	U	0.2	U	0.0584	U	0.091	J	0.08	U	0.0584	U
Nickel	SW6010	3.08	8.6	73	ug/L	40	U	40	U	0.745	U					3.06	J
Nickel (total)	SW6010	5.2	8.6	73	ug/L	40	U	40	U	0.745	U	3	U	3	U	0.745	U
Potassium	SW6010	2330	116000		ug/L	5000	U	5000	U	470	J					1040	J
Potassium (total)	SW6010	2410	116000		ug/L	5000	U	5000	U	469	J	500	U	500	U	1220	J
Sodium	SW6010	36000	1390000		ug/L	7180		12200		6290						36000	
Sodium (total)	SW6010	36600	1390000		ug/L	7800		7220		6480	J	6120		6000		36300	
Zinc	SW6010	109	507	1100	ug/L	49.9		48.8	B	17.1	J					13.8	J
Zinc (total)	SW6010	128	507	1100	ug/L	99.9		20	U	15.1	J	11.5	J	56.7	J	14.8	J
Volatile Organic Compounds																	
Cyclohexane	SW8260	0.44		1000	ug/L					0.0999	U	0.3	U	0.3	U	0.0999	U
Methylcyclohexane	SW8260	0.6		520	ug/L					0.107	U	0.2	U	0.2	U	0.107	U
Methylene Chloride	SW8260	0.49		4.3	ug/L	1	U	0.49	B	0.128	U	0.3	U	0.3	U	0.128	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-7 Summary of Analytes Detected in Shallow Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA3-GW-003 (field dup) 01/25/05 10.0-20.0 ft.		AA3-GW-003 04/24/05 10.0-20.0 ft.		AA3-GW-004 01/30/05 10.3-20.3 ft.		AA3-GW-004 04/29/05 10.3-20.3 ft.		AA3-GW-005 01/27/05 10.1-20.1 ft.		AA3-GW-005 04/28/05 10.1-20.1 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																	
Aluminum (total)	SW6010	11600	309	3600	ug/L	45.4	U	103	J	45.4	U	112	J	45.4	U	177	J
Arsenic	SW6010	12.5	7.4	0.045	ug/L	4.59	U			4.59	U			**12.5**	**J**		
Arsenic (total)	SW6010	12.1	7.4	0.045	ug/L	4.59	U	3	U	4.59	U	3	U	**12.1**	**J**	**8.1**	**J**
Barium	SW6010	198	11800	260	ug/L	90.2				198				108			
Barium (total)	SW6010	237	11800	260	ug/L	92.9		84.4	J	206		237		113		100	J
Calcium	SW6010	166000	316000		ug/L	166000				89600				111000			
Calcium (total)	SW6010	205000	316000		ug/L	167000		187000		88800		93800		115000		113000	
Chromium (total)	SW6010	22.8			ug/L	0.236	U	2	U	0.236	U	2	U	0.236	U	2	U
Cobalt	SW6010	2.79	12.1	73	ug/L	2.4	J			1.03	J			0.898	U		
Cobalt (total)	SW6010	2.63	12.1	73	ug/L	2.63	J	3	U	0.898	U	3	U	1.75	J	3	U
Copper	SW6010	44.2	19.8	150	ug/L	2.55	U			2.55	U			44.2			
Copper (total)	SW6010	33.6	19.8	150	ug/L	6.93	J	4	U	2.55	U	4	U	2.55	U	4	U
Iron	SW6010	64.9	1550	1100	ug/L	38.8	J			22.9	U			64.9	J		
Iron (total)	SW6010	27300	1550	1100	ug/L	22.9	U	40.4	J	22.9	U	38.2	J	165	J	167	
Lead (total)	SW6010	16.6			ug/L	2.44	U	1.5	U	2.44	U	1.5	U	2.44	U	1.5	U
Magnesium	SW6010	55200	217000		ug/L	55200				37800				42400			
Magnesium (total)	SW6010	56500	217000		ug/L	55800		56500	J	37700		36300		44500		38200	
Manganese	SW6010	296	636	88	ug/L	296				47.8				74.3			
Manganese (total)	SW6010	816	636	88	ug/L	320		277		51.3		81.7		75.4		73.4	
Mercury (total)	SW7470	0.091			ug/L	0.0584	U	0.08	U	0.0584	U	0.08	U	0.0584	U	0.08	U
Nickel	SW6010	3.08	8.6	73	ug/L	3.08	J			0.745	U			0.745	U		
Nickel (total)	SW6010	5.2	8.6	73	ug/L	0.745	U	5.2	J	0.745	U	3	U	0.745	U	3	U
Potassium	SW6010	2330	116000		ug/L	1130	J			2330				175	U		
Potassium (total)	SW6010	2410	116000		ug/L	1170	J	1110	J	2410		1790	J	1480	J	1310	J
Sodium	SW6010	36000	1390000		ug/L	35900				24600	J			11600			
Sodium (total)	SW6010	36600	1390000		ug/L	36600		33500	J	24800	J	17300		12500		8820	
Zinc	SW6010	109	507	1100	ug/L	13	J			52.9				109			
Zinc (total)	SW6010	128	507	1100	ug/L	19.5	J	24.6		58.3		117		82.8		128	
Volatile Organic Compounds																	
Cyclohexane	SW8260	0.44		1000	ug/L	0.0999	U	0.6	U	0.0999	U	0.44	J	0.0999	U	0.3	U
Methylcyclohexane	SW8260	0.6		520	ug/L	0.107	U	0.5	U	0.107	U	0.6	J	0.107	U	0.49	J
Methylene Chloride	SW8260	0.49		4.3	ug/L	0.128	U	0.9	U	0.128	U	0.3	U	0.128	U	0.3	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-8 Summary of Organic Compounds
Detected in Bedrock Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Action Level	Location Date Depth Units	AA3-BEDGW-001 11/19/1997 40.3-55.3 ft.		AA3-BEDGW-001 05/14/1998 40.3-55.3 ft.		AA3-BEDGW-001 09/27/2001 40.3-55.3 ft.		AA3-BEDGW-001 04/10/2002 40.3-55.3 ft.		AA3-BEDGW-001 04/10/2002 40.3-55.3 ft.		AA3-BEDGW- 04/10/2002 40.3-55.3 ft.		AA3-BEDGW-001 01/23/2005 40.3-55.3 ft.	
							Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																				
Acetone	SW8260	36		550	550	ug/L	36	J			22	B			50	U			1.73	U
Benzene	SW8260	120	2.4	0.35	2.4	ug/L	5	U	200	U	**11**		**8**	**J**	**6.4**		**7.5**	**J**	0.763	J
Carbon Disulfide	SW8260	4.2		100	100	ug/L	4.2	J	200	U	0.5	U	1	U	10	U	1	U	0.118	U
Chloromethane	SW8260	11.4		16	16	ug/L	10	U	400	U	0.5	U	1	U	5	U	1	U	0.142	U
Cyclohexane	SW8260	160		1000	1000	ug/L													16.7	
Ethylbenzene	SW8260	31	0.87	130	130	ug/L	5	U	200	U	4	J	4.6	J	3.4		4.1	J	0.353	J
Isopropylbenzene (Cumene)	SW8260	7.6		66	66	ug/L													0.101	U
Methylcyclohexane	SW8260	62		520	520	ug/L													7.16	
Methylene Chloride	SW8260	160		4.3	4.3	ug/L	2.1	B	**160**	**B**	2.2	B	**9.2**	**J**	5	U	**9.6**	**J**	0.128	U
Tetrachloroethene (PCE)	SW8260	0.5		0.1	0.1	ug/L	5	U	200	U	0.95	U	1.9	U	2	U	1.9	U	0.141	U
Toluene	SW8260	68	1.7	72	72	ug/L	5	U	29	B	11		12	J	9.2		11		1.28	
Xylenes, Total	SW8260	260	5.5	21	21	ug/L	5	U	200	U	**28**		**31**		**25.2**		**28**		2.56	
Semivolatile Organic Compounds																				
2-Methylnaphthalene	SW8270	5.47				ug/L	10	U	10	U	1.7	U	0.87	U	5	U	0.87	U	2.06	U
Naphthalene	SW8270	5.53		0.62	0.62	ug/L	10	U	10	U	1.3	U	**0.7**	**J**	5	U	**0.72**	**J**	0.54	U
Phenol	SW8270	3.1		1100	1100	ug/L	3.1	J	10	U	1.6	U	0.82	U	5	U	0.82	U	4.27	U
bis(2-Ethylhexyl)phthalate	SW8270	5.8		4.8	4.8	ug/L	**5.8**	**J**	10	U	1.6	U	0.8	U	5	U	0.8	U	3.49	U
m & p-Cresol	SW8270	5.9				ug/L									5.9					
Explosives																				
2-Nitrotoluene	SW8330	2.1		0.049	0.049	ug/L	0.2	U	0.2	U	0.14	U	0.14	U	0.2	UJ	0.14	U	0.198	U
3-Nitrotoluene	SW8330	0.44		12	12	ug/L	0.31	U	0.2	U	0.13	U	0.13	U	0.2	UJ	0.13	U	0.365	U
RDX	SW8330	0.32		0.61	0.61	ug/L	0.5	U	0.5	U	0.13	U	0.13	U	0.5	UJ	0.13	U	0.083	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-8 Summary of Organic Compounds
Detected in Bedrock Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Action Level	Location Date Depth Units	AA3-BEDGW-001 04/21/2005 40.3-55.3 ft.		AA3-BEDGW-002 01/25/2005 47.4-57.4 ft.		AA3-BEDGW-002 04/25/2005 47.4-57.4 ft.		AA3-BEDGW-003 01/30/2005 43.0-53.0 ft.		AA3-BEDGW-003 01/30/2005 43.0-53.0 ft.		AA3-BEDGW-003 04/29/2005 43.0-53.0 ft.	
							Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																		
Acetone	SW8260	36		550	550	ug/L	2	U	1.73	UJ	2	U	1.73	U	1.73	U	2	U
Benzene	SW8260	120	2.4	0.35	2.4	ug/L	**3.3**		**5.06**		**17**		**41.8**		**41.4**		**120**	
Carbon Disulfide	SW8260	4.2		100	100	ug/L	0.3	U	0.661	J	0.45	J	0.606	J	0.619	J	1.4	
Chloromethane	SW8260	11.4		16	16	ug/L	0.4	U	11.4		0.5	U	0.142	U	0.142	U	0.4	UJ
Cyclohexane	SW8260	160		1000	1000	ug/L	60		39.8		31		96		93.5		160	
Ethylbenzene	SW8260	31	0.87	130	130	ug/L	1.7		1.58		4.8		15.5		15.3		31	
Isopropylbenzene (Cumene)	SW8260	7.6		66	66	ug/L	0.6	J	0.423	J	1		4.64		4.65		7.6	
Methylcyclohexane	SW8260	62		520	520	ug/L	23		30.9		18		55.9		54.4		62	
Methylene Chloride	SW8260	160		4.3	4.3	ug/L	0.3	U	0.128	U	0.9	U	0.128	U	0.128	U	0.3	U
Tetrachloroethene (PCE)	SW8260	0.5		0.1	0.1	ug/L	**0.5**	J	0.141	U	**0.42**	J	0.141	U	0.141	U	0.3	U
Toluene	SW8260	68	1.7	72	72	ug/L	4.4		3.24		11		27.4		26.9		68	
Xylenes, Total	SW8260	260	5.5	21	21	ug/L	11		12.1		**33**		**128**		**127**		**260**	
Semivolatile Organic Compounds																		
2-Methylnaphthalene	SW8270	5.47				ug/L	1	UJ	2.08	U	1.1	UJ	5.47	J	4.92	J	4.6	J
Naphthalene	SW8270	5.53		0.62	0.62	ug/L	1	UJ	0.545	U	1.1	UJ	**5.53**	J	**4.66**	J	**5.3**	J
Phenol	SW8270	3.1		1100	1100	ug/L	1	UJ	4.31	U	1.1	UJ	4.31	U	4.27	U	1.1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	5.8		4.8	4.8	ug/L	1	U	3.52	U	1.1	UJ	3.52	U	3.49	U	1.1	UJ
m & p-Cresol	SW8270	5.9				ug/L												
Explosives																		
2-Nitrotoluene	SW8330	2.1		0.049	0.049	ug/L	0.09	U	0.196	U	0.096	U	0.202	U	0.2	U	**2.1**	J
3-Nitrotoluene	SW8330	0.44		12	12	ug/L	0.43	J	0.361	U	0.096	U	0.372	U	0.368	U	0.44	J
RDX	SW8330	0.32		0.61	0.61	ug/L	0.09	U	0.0822	U	0.096	U	0.0846	U	0.0838	U	0.32	J

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J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-9 Summary of Metals Detected in Bedrock Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA3-BEDGW-001 11/19/1997 40.3-55.3 ft.		AA3-BEDGW-001 05/14/1998 40.3-55.3 ft.		AA3-BEDGW-001 09/27/2001 40.3-55.3 ft.		AA3-BEDGW-001 04/10/2002 40.3-55.3 ft.		AA3-BEDGW-001 (field dup) 04/10/2002 40.3-55.3 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals															
Aluminum	SW6010	61.2	309	3600	ug/L	200	U	200	U	50.2	B	49.2	J	61.2	B
Aluminum (total)	SW6010	397	309	3600	ug/L	200	U	397		59.6	B	104	B	104	B
Arsenic (total)	SW6010	5.08	7.4	0.045	ug/L	10	U	10	U	2.5	U	2.5	U	2.5	U
Barium	SW6010	837	11800	260	ug/L	200	U	200	U	99.5	J	78.1	J	78.5	J
Barium (total)	SW6010	967	11800	260	ug/L	200	U	200	U	102	J	80.2	J	77.7	J
Calcium	SW6010	160000	316000		ug/L	160000		143000		122000		104000		105000	
Calcium (total)	SW6010	189000	316000		ug/L	189000		131000		122000	J	104000		101000	
Chromium (total)	SW6010	1.6			ug/L	10	U	10	U	1.6	B	1.2	U	1.2	U
Cobalt	SW6010	1.13	12.1	73	ug/L	50	U	50	U	2.3	U	2.3	U	2.3	U
Copper	SW6010	4	19.8	150	ug/L	25	U	25	U	1.9	U	1.9	U	1.9	U
Copper (total)	SW6010	12.5	19.8	150	ug/L	25	U	25	U	1.9	U	1.9	U	1.9	U
Iron (total)	SW6010	450	1550	1100	ug/L	168	B	450		126		118	J	91.8	J
Magnesium	SW6010	96300	217000		ug/L	96300		89400		80900		67100		67900	
Magnesium (total)	SW6010	108000	217000		ug/L	108000		76800		80700		69300		67200	
Manganese	SW6010	57.6	636	88	ug/L	57.6		51.3		23.9		17		17.2	
Manganese (total)	SW6010	83.8	636	88	ug/L	74.6		83.8		28.7		20.7		20	
Mercury (total)	SW7470	0.091			ug/L	0.2	U	0.2	U	0.06	U	0.06	U	0.06	U
Potassium	SW6010	44700	116000		ug/L	44700		43800		43100		40000		40700	
Potassium (total)	SW6010	49600	116000		ug/L	49600		38500		43900		40400		39300	
Sodium	SW6010	331000	1390000		ug/L	331000		321000		293000		237000		241000	
Sodium (total)	SW6010	368000	1390000		ug/L	368000		282000		293000		237000		231000	
Thallium	SW6010	6.4		0.24	ug/L	10	U	10	U	6.4	B	4.8	U	4.8	U
Thallium (total)	SW6010	10.1		0.24	ug/L	10	U	**10.1**	**B**	4.8	U	**6.9**	**B**	4.8	U
Zinc	SW6010	42.8	507	1100	ug/L	23		42.8	B	2.6	U	2.6	U	2.6	U
Zinc (total)	SW6010	67.6	507	1100	ug/L	29.2		67.6	B	2.6	U	2.6	U	2.6	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound . Bold / shaded values represent PRG exceedances.

Table 5-9 Summary of Metals Detected in Bedrock Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA3-BEDGW-001 01/23/2005 40.3-55.3 ft.		AA3-BEDGW-001 04/21/2005 40.3-55.3 ft.		AA3-BEDGW-002 01/25/2005 47.4-57.4 ft.		AA3-BEDGW-002 04/25/2005 47.4-57.4 ft.		AA3-BEDGW-003 01/30/2005 43.0-53.0 ft.	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals															
Aluminum	SW6010	61.2	309	3600	ug/L	45.4	U			45.4	U			45.4	U
Aluminum (total)	SW6010	397	309	3600	ug/L	45.4	U	100	U	45.4	U	100	U	45.4	U
Arsenic (total)	SW6010	5.08	7.4	0.045	ug/L	4.59	U	3	U	4.59	U	3	U	4.59	U
Barium	SW6010	837	11800	260	ug/L	76.2				187				806	
Barium (total)	SW6010	967	11800	260	ug/L	74.4	J	74.1	J	194		195	J	825	
Calcium	SW6010	160000	316000		ug/L	109000				57500				76300	
Calcium (total)	SW6010	189000	316000		ug/L	108000	J	113000		59000		58700		73200	
Chromium (total)	SW6010	1.6			ug/L	0.236	U	2	U	0.236	U	2	U	0.236	U
Cobalt	SW6010	1.13	12.1	73	ug/L	1.13	J			0.898	U			0.898	U
Copper	SW6010	4	19.8	150	ug/L	2.55	U			2.55	U			2.55	U
Copper (total)	SW6010	12.5	19.8	150	ug/L	2.55	U	4	U	2.55	U	4	U	2.55	U
Iron (total)	SW6010	450	1550	1100	ug/L	22.9	U	30	U	22.9	U	30	U	58.4	J
Magnesium	SW6010	96300	217000		ug/L	68700				30400				44600	
Magnesium (total)	SW6010	108000	217000		ug/L	67800	J	66900		31500		30100		43200	
Manganese	SW6010	57.6	636	88	ug/L	13.4				12.9				41.9	
Manganese (total)	SW6010	83.8	636	88	ug/L	11.8		12.4	J	13.3		10.2	J	41.1	
Mercury (total)	SW7470	0.091			ug/L	0.0584	U	0.08	U	0.0584	U	0.091	J	0.0584	U
Potassium	SW6010	44700	116000		ug/L	37100				11100				28600	
Potassium (total)	SW6010	49600	116000		ug/L	36200		41000		11400		10800		27900	
Sodium	SW6010	331000	1390000		ug/L	260000				41600				194000	J
Sodium (total)	SW6010	368000	1390000		ug/L	260000	J	234000		43600		35700		187000	J
Thallium	SW6010	6.4		0.24	ug/L	14.1	U			14.1	U			14.1	U
Thallium (total)	SW6010	10.1		0.24	ug/L	14.1	U	3	U	14.1	U	3	U	14.1	U
Zinc	SW6010	42.8	507	1100	ug/L	1.46	U			1.46	U			1.46	U
Zinc (total)	SW6010	67.6	507	1100	ug/L	1.46	U	5	U	1.46	U	5	U	11.8	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 5-9 Summary of Metals Detected in Bedrock Groundwater at Acid Area 3

Analyte	Method	Max Detect	Water Bkg.	PRG*	Location Date Depth Units	AA3-BEDGW-003 01/30/2005 43.0-53.0 ft. Result	VQ	AA3-BEDGW-003 04/29/2005 43.0-53.0 ft. Result	VQ
Metals									
Aluminum	SW6010	61.2	309	3600	ug/L	45.4	U		
Aluminum (total)	SW6010	397	309	3600	ug/L	45.4	U	102	J
Arsenic (total)	SW6010	5.08	7.4	0.045	ug/L	5.08	J	3	U
Barium	SW6010	837	11800	260	ug/L	837			
Barium (total)	SW6010	967	11800	260	ug/L	844		967	
Calcium	SW6010	160000	316000		ug/L	75400			
Calcium (total)	SW6010	189000	316000		ug/L	75800		65400	
Chromium (total)	SW6010	1.6			ug/L	0.236	U	2	U
Cobalt	SW6010	1.13	12.1	73	ug/L	0.898	U		
Copper	SW6010	4	19.8	150	ug/L	4	J		
Copper (total)	SW6010	12.5	19.8	150	ug/L	2.55	U	12.5	J
Iron (total)	SW6010	450	1550	1100	ug/L	55.7	J	321	
Magnesium	SW6010	96300	217000		ug/L	44400			
Magnesium (total)	SW6010	108000	217000		ug/L	44200		37900	
Manganese	SW6010	57.6	636	88	ug/L	43.5			
Manganese (total)	SW6010	83.8	636	88	ug/L	42.3		30.8	
Mercury (total)	SW7470	0.091			ug/L	0.0584	U	0.08	U
Potassium	SW6010	44700	116000		ug/L	28500			
Potassium (total)	SW6010	49600	116000		ug/L	28600		28400	
Sodium	SW6010	331000	1390000		ug/L	191000	J		
Sodium (total)	SW6010	368000	1390000		ug/L	192000	J	172000	
Thallium	SW6010	6.4		0.24	ug/L	14.1	U		
Thallium (total)	SW6010	10.1		0.24	ug/L	14.1	U	3	U
Zinc	SW6010	42.8	507	1100	ug/L	1.46	U		
Zinc (total)	SW6010	67.6	507	1100	ug/L	9.56	J	5	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound . Bold / shaded values represent PRG exceedances.

Table 6-1 Summary of Organic Compounds Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-01 04/29/2005		AA2-SWSD-02 04/29/2005		AA2-SWSD-03 04/29/2005		AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Semivolatile Organic Compounds																		
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	1	UJ	1	UJ	1	UJ	1	U	1.1	U	1.8	JB	1.9	JB
Volatile Organic Compounds																		
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.2	U	0.2	U	0.2	U	0.28	U	0.28	U	0.28	U	0.28	U
Polyaromatic Hydrocarbon (PAH) Compounds																		
Naphthalene	SW8270_PAH	0.044	0.62	ug/L							0.019	UJ	0.019	UJ	0.02	UJ	0.029	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-1 Summary of Organic Compounds Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-08 05/21/2006		AA2-SWSD-09 05/21/2006		AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Semivolatile Organic Compounds																		
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	1.8	JB	1.7	JB	2.2	JB	2.1	JB	2	JB	1.8	JB	1.8	JB
Volatile Organic Compounds																		
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Polyaromatic Hydrocarbon (PAH) Compounds																		
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.019	UJ	0.019	UJ	0.029	JB	0.02	UJ	0.026	JB	0.02	UJ	0.019	UJ

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-1 Summary of Organic Compounds Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-14 05/21/2006		AA2-SWSD-15 05/20/2006		AA2-SWSD-16 05/20/2006		AA2-SWSD-17 05/20/2006		AA2-SWSD-18 05/20/2006		AA2-SWSD-19 05/20/2006		AA2-SWSD-20 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Semivolatile Organic Compounds																		
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	1.9	JB	1.4	UJ	2	JB	2	JB	3	JB	**5**	**JB**	1	UJ
Volatile Organic Compounds																		
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	**0.3**	**J**
Polyaromatic Hydrocarbon (PAH) Compounds																		
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.024	UJ	0.032	J	0.036	J	0.038	J	0.041	J	0.033	J	0.036	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-1 Summary of Organic Compounds Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-20 (field dup) 05/20/2006		AA2-SWSD-21 05/20/2006		AA2-SWSD-22 05/20/2006		AA2-SWSD-23 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ
Semivolatile Organic Compounds												
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	2	JB	2	JB	3	JB	4	JB
Volatile Organic Compounds												
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U
Polyaromatic Hydrocarbon (PAH) Compounds												
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.033	J	0.044	J	0.037	J	0.033	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-2 Summary of Metals
Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-01 04/29/2005		AA2-SWSD-02 04/29/2005		AA2-SWSD-03 04/29/2005		AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006		AA2-SWSD-08 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																				
Aluminum	SW6010	1110	3600	ug/L							775		1110		100	U	409		335	
Aluminum (total)	SW6010	7670	3600	ug/L	**7670**		1220		666											
Arsenic (total)	SW6010	3.2	0.045	ug/L	**3.2**	J	3	U	3	U										
Barium	SW6010	42.8	260	ug/L							37.4	J	37.2	J	38.8	J	34.8	J	34.1	J
Barium (total)	SW6010	60.3	260	ug/L	60.3	J	32.9	J	32.4	J										
Calcium	SW6010	263000		ug/L							80600		76400		219000		104000		106000	
Calcium (total)	SW6010	105000		ug/L	47800		105000		94100											
Chromium (total)	SW6010	8.2		ug/L	8.2	J	2	U	2	U										
Copper	SW6010	7.4	150	ug/L							4	U	4	U	4	U	4	U	4	U
Copper (total)	SW6010	7.3	150	ug/L	7.3	J	4	U	4	U										
Iron	SW6010	4610	1100	ug/L							**1360**		**1200**		30	U	576		494	
Iron (total)	SW6010	8250	1100	ug/L	**8250**		**1220**		725											
Lead	SW6010	26.3		ug/L							1.5	U	1.5	U	26.3		2.9	J	1.5	U
Magnesium	SW6010	28900		ug/L							19600		18500		28900		22500		23600	
Magnesium (total)	SW6010	20700		ug/L	12400		19400		20700											
Manganese	SW6010	227	88	ug/L							86.8		16.4		9.3	J	32.8		36.9	
Manganese (total)	SW6010	79	88	ug/L	79		15.6		15.5											
Nickel (total)	SW6010	9	73	ug/L	9	J	3	U	3	U										
Potassium	SW6010	3430		ug/L							2570		3430		1100	J	2360		2270	
Potassium (total)	SW6010	4880		ug/L	4880		1740	J	1780	J										
Sodium	SW6010	5810		ug/L							4190		3920		4620		4160		4410	
Sodium (total)	SW6010	3120		ug/L	2440		3080		3120											
Vanadium (total)	SW6010	15.4	3.6	ug/L	**15.4**	J	3	U	3	U										
Zinc	SW6010	12.5	1100	ug/L							12.5	J	5.4	J	5	U	5	U	5	U
Zinc (total)	SW6010	36.7	1100	ug/L	36.7		5.3	J	6.6	J										

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-2 Summary of Metals Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-09 05/21/2006		AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006		AA2-SWSD-15 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																				
Aluminum	SW6010	1110	3600	ug/L	212		146	J	649		158	J	100	U	100	U	112	J	199	J
Aluminum (total)	SW6010	7670	3600	ug/L																
Arsenic (total)	SW6010	3.2	0.045	ug/L																
Barium	SW6010	42.8	260	ug/L	33.2	J	34.1	J	37.5	J	35.4	J	34.3	J	34	J	33.8	J	35.3	J
Barium (total)	SW6010	60.3	260	ug/L																
Calcium	SW6010	263000		ug/L	117000		119000		120000		121000		120000		121000		122000		118000	
Calcium (total)	SW6010	105000		ug/L																
Chromium (total)	SW6010	8.2		ug/L																
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	7.4	J	4	U	4	U	4	U	4	U
Copper (total)	SW6010	7.3	150	ug/L																
Iron	SW6010	4610	1100	ug/L	341		307		**1330**		573		314		213		219		292	
Iron (total)	SW6010	8250	1100	ug/L																
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	3.3		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	24000		24700		24800		24600		24400		25000		25300		24500	
Magnesium (total)	SW6010	20700		ug/L																
Manganese	SW6010	227	88	ug/L	30		31.6		49.9		42.1		44.4		34.1		29.5		25.3	
Manganese (total)	SW6010	79	88	ug/L																
Nickel (total)	SW6010	9	73	ug/L																
Potassium	SW6010	3430		ug/L	1630	J	1780	J	1810	J	1770	J	1900	J	1770	J	1850	J	1940	J
Potassium (total)	SW6010	4880		ug/L																
Sodium	SW6010	5810		ug/L	4060		4350		4350		4320		4250		4330		4340		5810	
Sodium (total)	SW6010	3120		ug/L																
Vanadium (total)	SW6010	15.4	3.6	ug/L																
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U	5.7	J	5	U	5	U	5	U	5	U	5	U
Zinc (total)	SW6010	36.7	1100	ug/L																

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value. U - Non-detection. R - Rejected. B - Found in blank. N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-2 Summary of Metals Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-16 05/20/2006		AA2-SWSD-17 05/20/2006		AA2-SWSD-18 05/20/2006		AA2-SWSD-19 05/20/2006		AA2-SWSD-20 05/20/2006		AA2-SWSD-20 (field dup) 05/20/2006		AA2-SWSD-21 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																		
Aluminum	SW6010	1110	3600	ug/L	109	J	100	U	100	U	100	U	100	U	100	U	100	U
Aluminum (total)	SW6010	7670	3600	ug/L														
Arsenic (total)	SW6010	3.2	0.045	ug/L														
Barium	SW6010	42.8	260	ug/L	42.8		33.1	J	33.8	J	34.6	J	32.9	J	32.7	J	35.2	J
Barium (total)	SW6010	60.3	260	ug/L														
Calcium	SW6010	263000		ug/L	102000		98000		103000		106000		107000		104000		106000	
Calcium (total)	SW6010	105000		ug/L														
Chromium (total)	SW6010	8.2		ug/L														
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	4	U	4	U	4	U	4	U
Copper (total)	SW6010	7.3	150	ug/L														
Iron	SW6010	4610	1100	ug/L	**4610**		624		673		265		220		315		102	
Iron (total)	SW6010	8250	1100	ug/L														
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	1.5	U	1.5	U	3.1		1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	22300		20900		22000		22500		23100		22700		23200	
Magnesium (total)	SW6010	20700		ug/L														
Manganese	SW6010	227	88	ug/L	**227**		78		65.3		25.5		56.3		61.4		9.1	J
Manganese (total)	SW6010	79	88	ug/L														
Nickel (total)	SW6010	9	73	ug/L														
Potassium	SW6010	3430		ug/L	1760	J	2180		2140		2290		2370		2310		1960	J
Potassium (total)	SW6010	4880		ug/L														
Sodium	SW6010	5810		ug/L	3990		3380		3510		3680		3850		3680		3780	
Sodium (total)	SW6010	3120		ug/L														
Vanadium (total)	SW6010	15.4	3.6	ug/L														
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U	5	U	5	U	5	U	7.6	J	5	U
Zinc (total)	SW6010	36.7	1100	ug/L														

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-2 Summary of Metals Detected in Surface Water at Acid Area 2

Analyte	Method	Max Detect	Action Level	Location Date Units	AA2-SWSD-22 05/20/2006 Result	VQ	AA2-SWSD-23 05/20/2006 Result	VQ
Metals								
Aluminum	SW6010	1110	3600	ug/L	100	U	100	U
Aluminum (total)	SW6010	7670	3600	ug/L				
Arsenic (total)	SW6010	3.2	0.045	ug/L				
Barium	SW6010	42.8	260	ug/L	36.2	J	37	J
Barium (total)	SW6010	60.3	260	ug/L				
Calcium	SW6010	263000		ug/L	263000		105000	
Calcium (total)	SW6010	105000		ug/L				
Chromium (total)	SW6010	8.2		ug/L				
Copper	SW6010	7.4	150	ug/L	4	U	4	U
Copper (total)	SW6010	7.3	150	ug/L				
Iron	SW6010	4610	1100	ug/L	56.2	J	60.3	J
Iron (total)	SW6010	8250	1100	ug/L				
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	23100		23300	
Magnesium (total)	SW6010	20700		ug/L				
Manganese	SW6010	227	88	ug/L	6.3	J	3.3	J
Manganese (total)	SW6010	79	88	ug/L				
Nickel (total)	SW6010	9	73	ug/L				
Potassium	SW6010	3430		ug/L	1670	J	1680	J
Potassium (total)	SW6010	4880		ug/L				
Sodium	SW6010	5810		ug/L	3730		4030	
Sodium (total)	SW6010	3120		ug/L				
Vanadium (total)	SW6010	15.4	3.6	ug/L				
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U
Zinc (total)	SW6010	36.7	1100	ug/L				

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-01 10/27/2004		AA2-SWSD-02 10/27/2004		AA2-SWSD-02 (field dup) 10/27/2004		AA2-SWSD-03 10/27/2004		AA2-SWSD-04 06/10/2006		AA2-SWSD-05 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	27.4		2200000	ug/Kg	10.1	J	22.5		27.4		8.44	J	2.2	U	13	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260	13.6		530000	ug/Kg	11.9	J	13.5	J	13.6	J	1.71	J	0.91	U	0.82	U
Acetone	SW8260	428		1400000	ug/Kg	207	B	336	B	428	B	2.04	U	32	JB	110	JB
Benzene	SW8260	2.8		640	ug/Kg	1.3	U	1.81	U	2.08	U	2.58	J	2.8	J	0.66	U
Carbon Disulfide	SW8260	2.8		36000	ug/Kg	2.12	U	2.95	U	3.41	U	1.75	U	2	U	1.8	U
Cyclohexane	SW8260	8.8		280000	ug/Kg	2.45	U	3.41	U	3.93	U	4.13	J	8.8		0.76	U
Ethylbenzene	SW8260	2.11		190000	ug/Kg	0.989	U	1.38	U	1.59	U	2.11	J	1.4	J	1.1	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	5.18	UJ	7.21	UJ	19.5	J	4.27	UJ	2.5	U	2.3	U
Methylcyclohexane	SW8260	9.8		260000	ug/Kg	1.14	U	1.59	U	1.83	U	6.69		9.8		0.42	U
Toluene	SW8260	8.5		66000	ug/Kg	1.17	U	1.62	U	1.95	J	7.13		5.4	JB	1.2	U
Xylenes, Total	SW8260	5.09		27000	ug/Kg	1.66	U	2.31	U	2.67	U	5.09	J	1.1	U	0.99	U
Semivolatile Organic Compounds																	
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	139	UJ	144	U	148	U	126	U	190	UJ	150	UJ
2-Methylnaphthalene	SW8270	54			ug/Kg	34.5	UJ	35.7	U	36.8	U	31.4	U	74	UJ	60	UJ
2-Methylphenol (o-Cresol)	SW8270	362		310000	ug/Kg	282	U	362	J	301	U	256	U	190	UJ	150	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg									190	U	150	U
4-Methylphenol (p-Cresol)	SW8270	212		31000	ug/Kg	212	J	114	U	118	U	100	U	190	U	150	U
Acenaphthylene	SW8270	251			ug/Kg	172	J	116	J	122	J	251	J	74	UJ	60	UJ
Acetophenone	SW8270	156			ug/Kg	140	J	156	J	139	J	95.8	J				
Anthracene	SW8270	430		2200000	ug/Kg	78.1	J	36.4	U	76.3	J	117	J	74	UJ	60	UJ
Benzaldehyde	SW8270	329		610000	ug/Kg	329	J	283	J	201	J	212	J				
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	146	J	100	J	103	J	151	J	210	J	60	UJ
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**178**	**J**	**115**	**J**	**117**	**J**	**199**	**J**	**270**	**J**	60	UJ
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	230	J	171	J	135	J	294	J	300	J	60	UJ
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	31.2	UJ	32.3	U	33.3	U	86.4	J	74	UJ	60	UJ
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	194	J	99.1	J	135	J	198	J	290	J	60	UJ
Benzoic acid	SW8270	1850		24000000	ug/Kg	1020	J	1850	J	1590	J	1040	J	190	J	180	J
Chrysene	SW8270	2600		62000	ug/Kg	215	J	145	J	136	J	215	J	280	J	60	UJ
Di-n-butylphthalate	SW8270	584		610000	ug/Kg	535	UJ	584	J	570	U	485	U	190	UJ	150	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	26.2	UJ	27.1	U	27.9	U	23.8	U	74	UJ	60	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	446	J	250	J	269	J	396	J	440	J	73	J
Fluorene	SW8270	120		270000	ug/Kg	12.8	UJ	13.2	U	108	J	11.6	U	74	UJ	60	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	67.4	J	33.9	U	35	U	66.6	J	170	J	60	UJ
N-Nitroso-di-n-propylamine	SW8270	272		69	ug/Kg	**166**	**J**	**272**	**J**	122	U	104	U	190	UJ	150	UJ
Phenanthrene	SW8270	1800			ug/Kg	108	J	25.3	U	26.1	U	71.3	J	200	J	60	UJ
Phenol	SW8270	535		1800000	ug/Kg	146	U	535	J	290	J	132	U	190	U	150	UJ
Pyrene	SW8270	4200		230000	ug/Kg	168	J	102	J	102	J	166	J	450	J	83	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-01 10/27/2004		AA2-SWSD-02 10/27/2004		AA2-SWSD-02 (field dup) 10/27/2004		AA2-SWSD-03 10/27/2004		AA2-SWSD-04 06/10/2006		AA2-SWSD-05 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg									37	UJ	30	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg									37	UJ	30	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg									58	J	30	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg									37	UJ	30	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg									210	J	58	J
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg									**300**	**J**	30	UJ
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg									350	J	30	UJ
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg									98	J	30	UJ
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg									290	J	30	UJ
Chrysene	SW8270_PAH	2500		62000	ug/Kg									280	J	60	J
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg											30	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg									480	J	77	J
Fluorene	SW8270_PAH	120		270000	ug/Kg									37	UJ	30	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg									120	J	30	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg									210	J	30	UJ
Pyrene	SW8270_PAH	4400		230000	ug/Kg									440	J	73	J
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	2280		220	ug/Kg	20	U	**1520**	**J**	**2280**	**J**	96.4	U	7.8	U	6.4	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	75	J	**3140**	**J**	**3080**	**J**	26.9	U	110		90	
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	30.6	U	30.6	U	31.1	U	30.6	U	100	U	80	U
1,3-Dinitrobenzene	SW8330	55.2		610	ug/Kg	55.2	J	29.7	U	30.1	U	29.7	U	100	U	80	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	41.1	U	41.1	U	41.7	U	41.1	U	100	U	80	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	148	J	68.1	U	69.1	U	68.1	U	130	U	100	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	103	U	103	U	105	U	103	U	100	U	80	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	102	U	102	U	104	U	102	U	100	U	80	U
HMX	SW8330	530		310000	ug/Kg	27.6	U	27.6	U	28	U	27.6	U	380	JB	80	U
RDX	SW8330	100		4400	ug/Kg	35.4	U	35.4	U	35.9	U	35.4	U	100	U	80	U
Tetryl	SW8330	134		61000	ug/Kg	134	J	97.4	UJ	98.9	UJ	97.4	UJ	100	U	80	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-06 06/10/2006		AA2-SWSD-07 06/12/2006		AA2-SWSD-07 (field dup) 06/12/2006		AA2-SWSD-08 06/10/2006		AA2-SWSD-09 06/10/2006		AA2-SWSD-10 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	27.4		2200000	ug/Kg	12	J	9.7	J	10	J	12	J	17	J	20	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260	13.6		530000	ug/Kg	0.99	U	0.92	U	0.94	U	0.91	U	1.3	U	1.3	U
Acetone	SW8260	428		1400000	ug/Kg	110	JB	75	J	82		91	JB	140	JB	130	JB
Benzene	SW8260	2.8		640	ug/Kg	0.8	U	0.74	U	0.76	U	0.74	U	1	U	1	U
Carbon Disulfide	SW8260	2.8		36000	ug/Kg	2.2	U	2.1	J	2.8	J	2.8	J	2.9	U	2.9	U
Cyclohexane	SW8260	8.8		280000	ug/Kg	0.92	U	0.85	U	0.87	U	0.85	U	1.2	U	1.2	U
Ethylbenzene	SW8260	2.11		190000	ug/Kg	1.3	U	1.2	U	1.2	U	1.2	U	1.7	U	1.7	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2.7	U	2.5	U	2.6	U	2.5	U	3.6	U	290	
Methylcyclohexane	SW8260	9.8		260000	ug/Kg	0.51	U	0.47	U	0.48	U	0.47	U	0.67	U	0.67	U
Toluene	SW8260	8.5		66000	ug/Kg	1.5	U	1.4	U	1.4	U	1.4	U	1.9	U	1.9	U
Xylenes, Total	SW8260	5.09		27000	ug/Kg	1.2	U	1.1	U	1.1	U	1.1	U	1.6	U	1.6	U
Semivolatile Organic Compounds																	
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	180	U	160	UJ	150	U	160	U	200	UJ	210	UJ
2-Methylnaphthalene	SW8270	54			ug/Kg	71	UJ	63	UJ	60	UJ	66	UJ	80	UJ	82	UJ
2-Methylphenol (o-Cresol)	SW8270	362		310000	ug/Kg	180	UJ	160	UJ	150	UJ	160	UJ	200	UJ	210	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	180	U	160	U	150	U	160	U	200	UJ	210	UJ
4-Methylphenol (p-Cresol)	SW8270	212		31000	ug/Kg	180	U	160	U	150	U	160	U	200	UJ	210	UJ
Acenaphthylene	SW8270	251			ug/Kg	71	U	63	UJ	60	U	66	U	80	UJ	82	UJ
Acetophenone	SW8270	156			ug/Kg												
Anthracene	SW8270	430		2200000	ug/Kg	71	U	63	UJ	60	U	66	U	100	J	82	UJ
Benzaldehyde	SW8270	329		610000	ug/Kg												
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	220	J	81	J	60	U	66	U	140	J	82	UJ
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**260**	**J**	63	UJ	60	U	66	U	**150**	**J**	82	UJ
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	210	J	63	UJ	60	U	66	U	160	J	82	UJ
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	71	U	63	UJ	60	U	66	U	80	UJ	82	UJ
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	220	J	63	UJ	60	U	66	U	180	J	82	UJ
Benzoic acid	SW8270	1850		24000000	ug/Kg			220	J	250	J	360	J	380	J	340	J
Chrysene	SW8270	2600		62000	ug/Kg	240	J	81	J	61	J	66	U	160	J	82	UJ
Di-n-butylphthalate	SW8270	584		610000	ug/Kg	180	U	160	UJ	150	U	160	U	200	UJ	210	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	71	U	63	UJ	60	U	66	U	80	UJ	82	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	270	J	120	J	76	J	120	J	220	J	82	UJ
Fluorene	SW8270	120		270000	ug/Kg	71	U	63	UJ	60	U	66	U	80	UJ	82	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	120	J	63	UJ	60	U	66	U	80	UJ	82	UJ
N-Nitroso-di-n-propylamine	SW8270	272		69	ug/Kg	180	UJ	160	UJ	150	UJ	160	UJ	200	UJ	210	UJ
Phenanthrene	SW8270	1800			ug/Kg	71	U	63	UJ	60	U	66	U	98	J	82	UJ
Phenol	SW8270	535		1800000	ug/Kg	180	UJ	160	UJ	150	UJ	160	UJ	200	UJ	210	UJ
Pyrene	SW8270	4200		230000	ug/Kg	300	J	110	J	60	U	120	J	200	J	120	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-06 06/10/2006		AA2-SWSD-07 06/12/2006		AA2-SWSD-07 (field dup) 06/12/2006		AA2-SWSD-08 06/10/2006		AA2-SWSD-09 06/10/2006		AA2-SWSD-10 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	36	UJ	32	UJ	30	UJ	33	UJ	40	UJ	41	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	36	UJ	32	UJ	30	U	33	U	40	UJ	41	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	52	J	32	UJ	30	U	33	U	40	UJ	41	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg	42	J	32	UJ	30	U	33	U	40	UJ	41	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	220	J	74	J	61	J	93		150	J	41	UJ
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**240**	**J**	32	UJ			33	U	40	UJ	41	UJ
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	290	J	94	J			150		200	J	41	UJ
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	36	UJ	32	UJ			33	U	40	UJ	41	UJ
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	240	J	57	J			95		150	J	41	UJ
Chrysene	SW8270_PAH	2500		62000	ug/Kg	220	J	81	J	66	J	110		140	J	41	UJ
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	36	UJ	32	UJ			33	U	40	UJ	41	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	280	J	120	J	73	J	120		210	J	130	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	36	UJ	32	UJ	30	U	33	U	40	UJ	41	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	36	UJ	32	UJ			33	U	40	UJ	41	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	58	J	32	UJ	30	U	33	U	100	J	41	UJ
Pyrene	SW8270_PAH	4400		230000	ug/Kg	290	J	120	J	110		110		190	J	120	
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	2280		220	ug/Kg	7.2	U	6.2	U	6.1	U	6.8	U	8.5	U	8.6	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	140		**760**		160	J	**260**		**2300**		**960**	
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U
1,3-Dinitrobenzene	SW8330	55.2		610	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	96	U	110	U	110	U	110	U	120	U	120	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	130	J	87	U	87	U	87	U	91	U	91	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U
HMX	SW8330	530		310000	ug/Kg	74	U	87	U	100	J	87	U	91	U	91	U
RDX	SW8330	100		4400	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U
Tetryl	SW8330	134		61000	ug/Kg	74	U	87	U	87	U	87	U	91	U	91	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-11 06/10/2006		AA2-SWSD-12 06/10/2006		AA2-SWSD-13 06/10/2006		AA2-SWSD-14 06/10/2006		AA2-SWSD-15 06/10/2006		AA2-SWSD-16 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	27.4		2200000	ug/Kg	1.9	U	1.6	U	1.9	U	14	J	17	J	4.3	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260	13.6		530000	ug/Kg	0.78	U	0.65	U	0.81	U	0.88	U	0.98	U	0.7	U
Acetone	SW8260	428		1400000	ug/Kg	14	JB	7.7	JB	31	JB	130	JB	94	JB	32	JB
Benzene	SW8260	2.8		640	ug/Kg	2.6	J	1.6	J	1.7	J	0.72	U	0.8	U	0.57	U
Carbon Disulfide	SW8260	2.8		36000	ug/Kg	1.8	U	1.4	U	1.8	U	2	U	2.2	U	1.6	U
Cyclohexane	SW8260	8.8		280000	ug/Kg	6.6	J	4.1	J	4.1	J	0.97	J	0.91	U	0.66	U
Ethylbenzene	SW8260	2.11		190000	ug/Kg	1	U	0.84	U	1	U	1.1	U	1.3	U	0.91	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2.2	U	1.8	U	2.2	U	2.4	U	2.7	U	1.9	U
Methylcyclohexane	SW8260	9.8		260000	ug/Kg	7.7		5.4	J	5.2	J	0.46	U	0.51	U	0.36	U
Toluene	SW8260	8.5		66000	ug/Kg	3.1	JB	2.3	JB	2.4	JB	1.3	U	1.4	U	1	U
Xylenes, Total	SW8260	5.09		27000	ug/Kg	0.95	U	0.78	U	0.97	U	1.1	U	1.2	U	0.85	U
Semivolatile Organic Compounds																	
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	180	U	160	U	150	UJ	160	UJ	150	UJ	330	J
2-Methylnaphthalene	SW8270	54			ug/Kg	72	UJ	65	UJ	60	UJ	66	UJ	59	UJ	54	UJ
2-Methylphenol (o-Cresol)	SW8270	362		310000	ug/Kg	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ	130	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	180	U	160	U	150	UJ	160	U	150	U	150	J
4-Methylphenol (p-Cresol)	SW8270	212		31000	ug/Kg	180	U	160	U	150	UJ	160	U	150	U	150	J
Acenaphthylene	SW8270	251			ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	140	J
Acetophenone	SW8270	156			ug/Kg												
Anthracene	SW8270	430		2200000	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	430	J
Benzaldehyde	SW8270	329		610000	ug/Kg												
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	72	U	81	J	60	UJ	66	UJ	59	UJ	**2300**	**J**
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	**2900**	**J**
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	**2900**	**J**
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	1100	J
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	2200	J
Benzoic acid	SW8270	1850		24000000	ug/Kg									440	J		
Chrysene	SW8270	2600		62000	ug/Kg	72	U	100	J	60	UJ	66	UJ	59	UJ	2600	J
Di-n-butylphthalate	SW8270	584		610000	ug/Kg	180	U	160	U	150	UJ	160	UJ	150	UJ	130	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	**320**	**J**
Fluoranthene	SW8270	3900		230000	ug/Kg	140	J	140	J	60	UJ	66	UJ	59	UJ	3900	J
Fluorene	SW8270	120		270000	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	120	J
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	**1400**	**J**
N-Nitroso-di-n-propylamine	SW8270	272		69	ug/Kg	180	UJ	160	U	150	UJ	160	UJ	150	UJ	130	UJ
Phenanthrene	SW8270	1800			ug/Kg	72	U	65	U	60	UJ	66	UJ	59	UJ	1800	J
Phenol	SW8270	535		1800000	ug/Kg	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ	130	UJ
Pyrene	SW8270	4200		230000	ug/Kg	140	J	110	J	60	UJ	66	UJ	59	UJ	4200	J

J - Estimated Value. U - Non-detection. R - Rejected. B - Found in blank. N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-11 06/10/2006		AA2-SWSD-12 06/10/2006		AA2-SWSD-13 06/10/2006		AA2-SWSD-14 06/10/2006		AA2-SWSD-15 06/10/2006		AA2-SWSD-16 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	36	UJ	33	UJ	30	UJ	33	UJ	29	UJ	27	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	36	UJ	33	U	30	UJ	33	UJ	29	UJ	39	J
Acenaphthylene	SW8270_PAH	150			ug/Kg	36	UJ	33	U	30	UJ	33	UJ	29	UJ	150	J
Anthracene	SW8270_PAH	440		2200000	ug/Kg	36	UJ	33	U	30	UJ	33	UJ	29	UJ	440	J
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	100	J	85		30	UJ	33	UJ	29	UJ	**2400**	**J**
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**96**	**J**	33	U	30	UJ	33	UJ	29	UJ	**2700**	**J**
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	36	UJ	120		30	UJ	33	UJ	29	UJ	**2900**	**J**
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	36	UJ	38	J	30	UJ	33	UJ	29	UJ	900	J
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	36	UJ	88		30	UJ	33	UJ	29	UJ	2600	J
Chrysene	SW8270_PAH	2500		62000	ug/Kg	100	J	96		30	UJ	33	UJ	29	UJ	2500	J
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	36	UJ	33	U	30	UJ	33	UJ	29	UJ	**250**	**J**
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	140	J	140		43	J	33	UJ	29	UJ	4200	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	36	UJ	33	U	30	UJ	33	UJ	29	UJ	120	J
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	36	UJ	44	J	30	UJ	33	UJ	29	UJ	**1200**	**J**
Phenanthrene	SW8270_PAH	1900			ug/Kg	72	J	45	J	30	UJ	33	UJ	29	UJ	1900	J
Pyrene	SW8270_PAH	4400		230000	ug/Kg	130	J	110		41	J	33	UJ	29	UJ	4400	J
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	2280		220	ug/Kg	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U	5.5	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	**520**		**800**		100		39		82		170	
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	95	U	87	U	87	U	91	U	100	U	180	J
1,3-Dinitrobenzene	SW8330	55.2		610	ug/Kg	95	U	87	U	87	U	91	U	100	U	83	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	95	U	87	U	87	U	91	U	100	U	770	
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	120	U	110	U	110	U	120	U	130	U	720	
2-Nitrotoluene	SW8330	170		880	ug/Kg	95	U	87	U	87	U	91	U	100	U	83	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	95	U	87	U	87	U	91	U	100	U	83	U
HMX	SW8330	530		310000	ug/Kg	95	U	87	U	87	U	91	U	100	U	83	U
RDX	SW8330	100		4400	ug/Kg	95	U	87	U	87	U	91	U	100	U	100	J
Tetryl	SW8330	134		61000	ug/Kg	95	U	87	U	87	U	91	U	100	U	83	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-17 06/11/2006		AA2-SWSD-18 06/12/2006		AA2-SWSD-18 (field dup) 06/12/2006		AA2-SWSD-19 06/11/2006		AA2-SWSD-20 06/11/2006		AA2-SWSD-21 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	27.4		2200000	ug/Kg	15	J	6.4	J	5	J	1.9	U	2.9	J	8.7	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260	13.6		530000	ug/Kg	0.89	U	0.81	U	0.72	U	0.79	U	0.76	U	0.86	U
Acetone	SW8260	428		1400000	ug/Kg	62	J	54	J	50	J	25	JB	46	JB	110	JB
Benzene	SW8260	2.8		640	ug/Kg	0.72	U	0.66	U	0.58	U	0.64	U	0.62	U	0.69	U
Carbon Disulfide	SW8260	2.8		36000	ug/Kg	2	U	1.8	U	1.6	U	1.8	U	1.7	U	1.9	U
Cyclohexane	SW8260	8.8		280000	ug/Kg	0.83	U	1	J	0.67	U	0.74	U	0.86	J	0.8	U
Ethylbenzene	SW8260	2.11		190000	ug/Kg	1.2	U	1	U	0.93	U	1	U	0.98	U	1.1	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2.4	U	2.2	U	2	U	2.2	U	2.1	U	2.4	U
Methylcyclohexane	SW8260	9.8		260000	ug/Kg	0.46	U	0.42	U	0.37	U	0.41	U	0.39	U	0.44	U
Toluene	SW8260	8.5		66000	ug/Kg	8.5	B	1.2	U	1.1	U	1.2	U	1.1	U	1.3	U
Xylenes, Total	SW8260	5.09		27000	ug/Kg	1.1	U	0.98	U	0.86	U	0.96	U	0.92	U	1	U
Semivolatile Organic Compounds																	
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	260	J	560	J	400	J	140	UJ	240	J	150	UJ
2-Methylnaphthalene	SW8270	54			ug/Kg	68	UJ	54	J	56	UJ	55	UJ	53	UJ	62	UJ
2-Methylphenol (o-Cresol)	SW8270	362		310000	ug/Kg	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ	150	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	170	U	130	UJ	140	U	140	U	130	U	150	UJ
4-Methylphenol (p-Cresol)	SW8270	212		31000	ug/Kg	170	U	130	UJ	140	U	140	U	130	U	150	UJ
Acenaphthylene	SW8270	251			ug/Kg	86	J	52	UJ	56	UJ	55	UJ	64	J	62	UJ
Acetophenone	SW8270	156			ug/Kg												
Anthracene	SW8270	430		2200000	ug/Kg	68	UJ	70	J	150	J	98	J	140	J	62	UJ
Benzaldehyde	SW8270	329		610000	ug/Kg												
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	550	J	490	J	530	J	490	J	**1100**	J	300	J
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**770**	J	**580**	J	**610**	J	**560**	J	**1200**	J	**370**	J
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	**840**	J	620	J	**730**	J	590	J	**1200**	J	310	J
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	250	J	160	J	150	J	200	J	350	J	100	J
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	740	J	570	J	520	J	480	J	1000	J	260	J
Benzoic acid	SW8270	1850		24000000	ug/Kg											1500	J
Chrysene	SW8270	2600		62000	ug/Kg	700	J	530	J	590	J	530	J	1100	J	300	J
Di-n-butylphthalate	SW8270	584		610000	ug/Kg	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ	150	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	68	UJ	52	UJ	56	UJ	55	UJ	**100**	J	62	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	840	J	800	J	1000	J	760	J	1700	J	430	J
Fluorene	SW8270	120		270000	ug/Kg	68	UJ	52	UJ	56	UJ	55	UJ	53	UJ	62	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	370	J	230	J	210	J	280	J	480	J	140	J
N-Nitroso-di-n-propylamine	SW8270	272		69	ug/Kg	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ	150	UJ
Phenanthrene	SW8270	1800			ug/Kg	210	J	230	J	330	J	280	J	400	J	160	J
Phenol	SW8270	535		1800000	ug/Kg	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ	150	UJ
Pyrene	SW8270	4200		230000	ug/Kg	880	J	780	J	970	J	740	J	1400	J	460	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-17 06/11/2006		AA2-SWSD-18 06/12/2006		AA2-SWSD-18 (field dup) 06/12/2006		AA2-SWSD-19 06/11/2006		AA2-SWSD-20 06/11/2006		AA2-SWSD-21 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	34	UJ	60	J	42	J	28	UJ	29	J	31	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	34	UJ	26	UJ	28	UJ	28	UJ	26	UJ	31	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	87	J	48	J	39	J	50	J	67	J	50	J
Anthracene	SW8270_PAH	440		2200000	ug/Kg	82	J	75	J	150	J	110	J	160	J	69	J
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	530	J	460	J	550	J	490	J	**1100**	**J**	270	J
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**730**	**J**	**550**	**J**	**650**	**J**	**550**	**J**	**1100**	**J**	**350**	**J**
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	**950**	**J**	610	J	**660**	**J**	**640**	**J**	**1300**	**J**	300	J
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	270	J	180	J	190	J	170	J	320	J	130	J
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	660	J	490	J	520	J	480	J	1100	J	350	J
Chrysene	SW8270_PAH	2500		62000	ug/Kg	660	J	520	J	570	J	510	J	1100	J	300	J
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	34	UJ	26	UJ			28	UJ	26	UJ	31	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	870	J	790	J	1000	J	800	J	1700	J	460	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	34	UJ	26	UJ	28	UJ	28	UJ	26	UJ	31	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	360	J	220	J	260	J	220	J	460	J	150	J
Phenanthrene	SW8270_PAH	1900			ug/Kg	230	J	240	J	330	J	280	J	430	J	160	J
Pyrene	SW8270_PAH	4400		230000	ug/Kg	820	J	760	J	800	J	700	J	1500	J	440	J
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	2280		220	ug/Kg	7.2	U	5.4	U	6	U	5.7	U	5.4	U	6.5	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	**1900**		**1900**		**3400**		**15000**		**18000**		**380**	
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	91	U	160	J	77	U	95	U	140		95	U
1,3-Dinitrobenzene	SW8330	55.2		610	ug/Kg	91	U	74	U	77	U	95	U	80	U	95	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	620		94	J	100	J	95	U	80	U	95	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	460		320		260	J	120	U	100	U	120	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	91	U	74	U	170	J	95	U	80	U	95	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	91	U	74	U	77	U	95	U	96	J	95	U
HMX	SW8330	530		310000	ug/Kg	91	U	160	J	77	U	95	U	530	J	95	U
RDX	SW8330	100		4400	ug/Kg	91	U	74	U	88	J	95	U	80	U	95	U
Tetryl	SW8330	134		61000	ug/Kg	91	U	74	U	77	U	95	U	80	U	95	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ
Volatile Organic Compounds									
2-Butanone (Methyl ethyl ketone)	SW8260	27.4		2200000	ug/Kg	6.5	J	2.7	J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260	13.6		530000	ug/Kg	0.72	U	0.66	U
Acetone	SW8260	428		1400000	ug/Kg	56	JB	20	JB
Benzene	SW8260	2.8		640	ug/Kg	0.58	U	0.53	U
Carbon Disulfide	SW8260	2.8		36000	ug/Kg	1.6	U	1.5	U
Cyclohexane	SW8260	8.8		280000	ug/Kg	0.67	U	0.61	U
Ethylbenzene	SW8260	2.11		190000	ug/Kg	0.93	U	0.85	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2	U	1.8	U
Methylcyclohexane	SW8260	9.8		260000	ug/Kg	0.37	U	0.34	U
Toluene	SW8260	8.5		66000	ug/Kg	1.1	U	0.98	U
Xylenes, Total	SW8260	5.09		27000	ug/Kg	0.87	U	0.79	U
Semivolatile Organic Compounds									
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	140	UJ	130	U
2-Methylnaphthalene	SW8270	54			ug/Kg	58	UJ	53	UJ
2-Methylphenol (o-Cresol)	SW8270	362		310000	ug/Kg	140	UJ	130	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	140	U	130	U
4-Methylphenol (p-Cresol)	SW8270	212		31000	ug/Kg	140	U	130	U
Acenaphthylene	SW8270	251			ug/Kg	58	UJ	53	U
Acetophenone	SW8270	156			ug/Kg				
Anthracene	SW8270	430		2200000	ug/Kg	58	UJ	53	U
Benzaldehyde	SW8270	329		610000	ug/Kg				
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	58	UJ	140	J
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	58	UJ	53	U
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	58	UJ	240	J
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	58	UJ	53	U
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	58	UJ	180	J
Benzoic acid	SW8270	1850		24000000	ug/Kg				
Chrysene	SW8270	2600		62000	ug/Kg	58	UJ	170	J
Di-n-butylphthalate	SW8270	584		610000	ug/Kg	140	UJ	130	U
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	58	UJ	53	U
Fluoranthene	SW8270	3900		230000	ug/Kg	77	J	220	J
Fluorene	SW8270	120		270000	ug/Kg	58	UJ	53	U
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	58	UJ	53	U
N-Nitroso-di-n-propylamine	SW8270	272		69	ug/Kg	140	UJ	130	UJ
Phenanthrene	SW8270	1800			ug/Kg	58	UJ	67	J
Phenol	SW8270	535		1800000	ug/Kg	140	UJ	130	UJ
Pyrene	SW8270	4200		230000	ug/Kg	78	J	260	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-3 Summary of Organic Compounds Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds									
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	29	UJ	26	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	29	UJ	26	U
Acenaphthylene	SW8270_PAH	150			ug/Kg	29	UJ	26	U
Anthracene	SW8270_PAH	440		2200000	ug/Kg	29	UJ	26	U
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	56	J	140	
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	29	UJ	**200**	
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	67	J	300	
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	29	UJ	84	J
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	62	J	150	
Chrysene	SW8270_PAH	2500		62000	ug/Kg	55	J	180	
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	29	UJ	26	U
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	82	J	210	
Fluorene	SW8270_PAH	120		270000	ug/Kg	29	U	26	U
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	29	UJ	26	U
Phenanthrene	SW8270_PAH	1900			ug/Kg	29	UJ	65	J
Pyrene	SW8270_PAH	4400		230000	ug/Kg	86	J	270	
Polychlorinated Biphenyls (PCBs)									
PCB-1254 (Aroclor 1254)	SW8082	2280		220	ug/Kg	6	U	5.6	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	48		56	
Explosives									
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	83	U	91	U
1,3-Dinitrobenzene	SW8330	55.2		610	ug/Kg	83	U	91	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	83	U	91	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	110	U	120	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	83	U	91	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	83	U	91	U
HMX	SW8330	530		310000	ug/Kg	83	U	91	U
RDX	SW8330	100		4400	ug/Kg	83	U	91	U
Tetryl	SW8330	134		61000	ug/Kg	83	U	91	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-4 Summary of Metals Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-01 10/27/2004 Result	VQ	AA2-SWSD-02 10/27/2004 Result	VQ	AA2-SWSD-02 (field dup) 10/27/2004 Result	VQ	AA2-SWSD-03 10/27/2004 Result	VQ	AA2-SWSD-04 06/10/2006 Result	VQ	AA2-SWSD-05 06/10/2006 Result	VQ	AA2-SWSD-06 06/10/2006 Result	VQ	AA2-SWSD-07 06/12/2006 Result	VQ
Metals																					
Aluminum	SW6010	16000	15500	7600	mg/Kg	12200		7810		8270		8160		**16000**	**J**	10900	J	12100	J	9680	J
Antimony	SW6010	1.1	9.3	3.1	mg/Kg	1.07	J	0.79	UJ	1.1	J	0.847	J	3.9	UJ	3.1	UJ	3.6	UJ	3.1	UJ
Arsenic	SW6010	13	36.5	0.39	mg/Kg	3.03	J	2.64	J	2.4	J	2.9		4.7		7.4		6.6		5.3	
Barium	SW6010	111	826	540	mg/Kg	77.3		57.3		59.5		50.8		100		65.2		78.7		57.9	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.595	J	0.385	J	0.393	J	0.387	J	0.95	J	0.67	J	0.76	J	0.65	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.658		0.518	J	0.525	J	0.528	J	0.69	J	0.41	J	0.43	J	0.31	U
Calcium	SW6010	31200	52300		mg/Kg	6490		6850		6740		12900		7530		6810		8220		5360	
Chromium	SW6010	30.4	29		mg/Kg	17.8		14.4		14.6		13.5		22.8	J	16.3	J	18.6	J	16.2	J
Cobalt	SW6010	13.1	116	90	mg/Kg	6.41		6.26		6.33		8.1		7.6	J	7.4	J	8	J	6.8	J
Copper	SW6010	53.5	56.2	310	mg/Kg	21.5		21.7		22.3		18.7		15.9		22.2		21.9		22.4	
Iron	SW6010	34200	234000	2300	mg/Kg	18100		15000		15300		18100		21600	J	20600	J	22200	J	17400	J
Lead	SW6010	1460	48.6	40	mg/Kg	28.2		**169**		**170**		41		41.2	J	24.6	J	46.8	J	**65.9**	**J**
Magnesium	SW6010	8550	10400		mg/Kg	3310		2640		2690		4730		4140	J	3150	J	3400	J	2650	J
Manganese	SW6010	406	3506.2	180	mg/Kg	108	J	165	J	186	J	151	J	129	J	153	J	159	J	105	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.0543		0.0589		0.0725		0.062		0.1	B	0.09	B	0.1	B	0.051	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	20.5		18.9		18.9		19.9		25.1		21.3		23.3		21.2	
Potassium	SW6010	1790	3390		mg/Kg	1680	J	1050	J	1070		1090	J	1790	J	1470	J	1330	J	1060	J
Selenium	SW6010	3.86	2	39	mg/Kg	3.72		1.57	J	3.86		1.39	U	1.6	J	1.3	J	1.6	J	0.92	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.199	J	0.116	U	0.141	U	0.177	J	0.39	U	0.31	U	0.36	U	0.31	U
Sodium	SW6010	59			mg/Kg	50.4	J	51.9	J	56.9	J	59	J	389	U	309	U	361	U	307	U
Thallium	SW6010	4.73	1.3	0.52	mg/Kg	**4.02**		**4.41**		**4.7**		**4.73**		0.49	U	0.39	U	0.45	U	0.38	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	27		19.7		20.4		20.2		32.2		24		27		24.8	
Zinc	SW6010	244	321.8	2300	mg/Kg	68.4		68.2		69.5		72.9		90	J	82	J	86.8	J	59.8	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-4 Summary of Metals Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-07 (field dup) 06/12/2006		AA2-SWSD-08 06/10/2006		AA2-SWSD-09 06/10/2006		AA2-SWSD-10 06/10/2006		AA2-SWSD-11 06/10/2006		AA2-SWSD-12 06/10/2006		AA2-SWSD-13 06/10/2006		AA2-SWSD-14 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																					
Aluminum	SW6010	16000	15500	7600	mg/Kg	9050	J	10300	J	15400	J	11800	J	9220	J	10700	J	14400	J	7400	J
Antimony	SW6010	1.1	9.3	3.1	mg/Kg	3.1	UJ	3.4	U	4	UJ	4.3	UJ	3.7	UJ	3.4	UJ	3	UJ	3.6	UJ
Arsenic	SW6010	13	36.5	0.39	mg/Kg	5.1		4.1		10.8		5.1		5.6		9.6	J	13	J	4	J
Barium	SW6010	111	826	540	mg/Kg	54.9	J	68.3	J	111		83	J	74		77.7		84.2		49.6	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.59	J	0.66	J	1.1	J	0.75	J	0.6	J	0.67	J	0.82	J	0.48	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.31	U	0.38	J	0.98	J	0.65	J	0.78	J	0.78	J	0.33	J	0.36	U
Calcium	SW6010	31200	52300		mg/Kg	5710		7500		11000		9920		8280		31200		24200		7790	
Chromium	SW6010	30.4	29		mg/Kg	15.7	J	16.9	J	30.4	J	19	J	14.8	J	17.9	J	22.6	J	11.7	J
Cobalt	SW6010	13.1	116	90	mg/Kg	6.3	J	7	J	13.1	J	8.5	J	8	J	10.3	J	10.7	J	7.3	J
Copper	SW6010	53.5	56.2	310	mg/Kg	23.9		25.6		53.5		33.1		27.8		27.8		24.3		18.7	
Iron	SW6010	34200	234000	2300	mg/Kg	18200	J	16800	J	31800	J	20300	J	18400	J	27000	J	30600	J	15200	J
Lead	SW6010	1460	48.6	40	mg/Kg	**64**	**J**	**85.3**	**J**	**531**	**J**	**115**	**J**	**90.5**	**J**	**126**		41.1		25.2	
Magnesium	SW6010	8550	10400		mg/Kg	2490	J	2910	J	4470	J	3430	J	2890	J	6850		8550		2740	
Manganese	SW6010	406	3506.2	180	mg/Kg	108	J	126	J	232	J	137	J	107	J	406	J	325	J	162	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.05	B	0.1	B	0.2	B	0.15	B	0.2	B	0.13	B	0.097	B	0.07	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	20.1		21.6		44.2		26.8		22		26.4		31.7		18.8	
Potassium	SW6010	1790	3390		mg/Kg	1050	J	1140	J	1470	J	1450	J	1210	J	1300	J	1710	J	972	J
Selenium	SW6010	3.86	2	39	mg/Kg	0.92	U	1.1	J	2.5		2	J	1.7	J	1	U	0.9	U	1.1	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.31	U	0.34	U	0.4	U	0.43	U	0.37	U	0.34	U	0.3	U	0.36	U
Sodium	SW6010	59			mg/Kg	306	U	343	U	398	U	427	U	365	U	340	U	299	U	355	U
Thallium	SW6010	4.73	1.3	0.52	mg/Kg	0.38	U	0.43	U	0.5	U	0.53	U	0.46	U	0.43	U	0.37	U	0.44	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	21.9		23		32.2		26.2		22.9		24.4		31.4		17.2	J
Zinc	SW6010	244	321.8	2300	mg/Kg	55.5	J	90.2	J	244	J	109	J	121	J	146		118		70.5	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-4 Summary of Metals Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-15 06/10/2006		AA2-SWSD-16 06/11/2006		AA2-SWSD-17 06/11/2006		AA2-SWSD-18 06/12/2006		AA2-SWSD-18 (field dup) 06/12/2006		AA2-SWSD-19 06/11/2006		AA2-SWSD-20 06/11/2006		AA2-SWSD-21 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																					
Aluminum	SW6010	16000	15500	7600	mg/Kg	7310	J	2490	J	9190	J	7430	J	9090	J	5320	J	3750	J	8090	J
Antimony	SW6010	1.1	9.3	3.1	mg/Kg	3	UJ	2.8	UJ	3.7	UJ	2.7	UJ	3	UJ	2.7	UJ	2.8	UJ	3.3	UJ
Arsenic	SW6010	13	36.5	0.39	mg/Kg	3.9	J	3.7		10.8		10.1		12.7		8.8		5.9		5.4	
Barium	SW6010	111	826	540	mg/Kg	49.2	J	70.4		91.8		66.2		69.9		57.3		39.7	J	56.4	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.54	J	0.28	U	0.62	J	0.56	J	0.7	J	0.36	J	0.28	J	0.6	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.3	U	0.28	U	0.37	U	0.44	J	0.53	J	0.27	U	0.28	U	0.33	U
Calcium	SW6010	31200	52300		mg/Kg	5460		2450		8740		3930		4420		2810		1780		6510	
Chromium	SW6010	30.4	29		mg/Kg	11.1	J	3.5	J	16.4	J	12.8	J	16.6	J	9.3	J	7.2	J	12.4	J
Cobalt	SW6010	13.1	116	90	mg/Kg	7.8	J	1.4	U	6.1	J	9.1	J	10.3	J	4.1	J	5	J	4.4	J
Copper	SW6010	53.5	56.2	310	mg/Kg	18.5		5.9	J	25.1		20.8		26		13		10.7		18.9	
Iron	SW6010	34200	234000	2300	mg/Kg	14400	J	5810	J	21900	J	23400	J	34200	J	14600	J	11200	J	15300	J
Lead	SW6010	1460	48.6	40	mg/Kg	22.3		39.6	J	**1460**	**J**	47.9	J	**56.1**	**J**	**92.8**	**J**	48.3	J	30.5	J
Magnesium	SW6010	8550	10400		mg/Kg	2390		486	J	2770	J	1990	J	2190	J	1210	J	795	J	1930	J
Manganese	SW6010	406	3506.2	180	mg/Kg	124	J	58.6	T	176	J	187	J	164	J	133	J	236	J	103	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.063	B	0.3	B	0.13	B	0.049	B	0.056	B	0.067	B	1.1		0.4	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	20		2.8	J	18.9		21.9		29		12.2		10.7	J	14	
Potassium	SW6010	1790	3390		mg/Kg	880	J	627	J	1270	J	859	J	963	J	674	J	573	J	759	J
Selenium	SW6010	3.86	2	39	mg/Kg	0.9	U	0.84	U	1.1	U	0.8	U	0.89	U	0.82	U	0.83	U	1	J
Silver	SW6010	0.32	11.1	39	mg/Kg	0.3	U	0.28	U	0.37	U	0.27	U	0.3	U	0.27	U	0.32	J	0.33	U
Sodium	SW6010	59			mg/Kg	300	U	279	U	367	U	267	U	296	U	274	U	276	U	332	U
Thallium	SW6010	4.73	1.3	0.52	mg/Kg	0.38	U	0.35	U	0.46	U	0.33	U	0.37	U	0.34	U	0.34	U	0.42	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	15.1		5.7	J	22.4		18.1		20.7		13.7	J	11.3	J	18.1	
Zinc	SW6010	244	321.8	2300	mg/Kg	69.1		8.6	J	68.4	J	94.4	J	119	J	66.9	J	36	J	56.1	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value. U - Non-detection. R - Rejected. B - Found in blank. N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-4 Summary of Metals Detected in Sediment at Acid Area 2

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ
Metals									
Aluminum	SW6010	16000	15500	7600	mg/Kg	11400	J	7990	J
Antimony	SW6010	1.1	9.3	3.1	mg/Kg	3	UJ	2.6	U
Arsenic	SW6010	13	36.5	0.39	mg/Kg	5.8		8.5	
Barium	SW6010	111	826	540	mg/Kg	85.6		60.3	
Beryllium	SW6010	1.1	1	15	mg/Kg	0.7	J	0.53	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.3	U	0.26	U
Calcium	SW6010	31200	52300		mg/Kg	5570		7270	
Chromium	SW6010	30.4	29		mg/Kg	17.7	J	12.5	J
Cobalt	SW6010	13.1	116	90	mg/Kg	6.4	J	7.4	J
Copper	SW6010	53.5	56.2	310	mg/Kg	15.5		13.6	
Iron	SW6010	34200	234000	2300	mg/Kg	21500	J	19100	J
Lead	SW6010	1460	48.6	40	mg/Kg	19.6	J	27.8	J
Magnesium	SW6010	8550	10400		mg/Kg	2840	J	2570	J
Manganese	SW6010	406	3506.2	180	mg/Kg	354	J	123	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.22	B	0.11	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	17.2		15	
Potassium	SW6010	1790	3390		mg/Kg	986	J	604	J
Selenium	SW6010	3.86	2	39	mg/Kg	0.89	U	0.78	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.3	U	0.26	U
Sodium	SW6010	59			mg/Kg	296	U	260	U
Thallium	SW6010	4.73	1.3	0.52	mg/Kg	0.37	U	0.32	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	21.4		21.9	
Zinc	SW6010	244	321.8	2300	mg/Kg	72.4	J	40.6	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-5 Summary of Organic Compounds Detected in Surface Water at Acid Area 3

Analyte	Method	Max Detect	Action Level	Location Date Units	AA3-SWSD-01 04/29/2005		AA3-SWSD-02 04/29/2005		AA3-SWSD-03 04/29/2005		AA3-SWSD-03 (field dup) 04/29/2005		AA3-SWSD-04 05/20/2006		AA3-SWSD-05 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
Naphthalene	SW8270_PAH	0.043	0.62	ug/L									0.042	J	0.042	J
Semivolatile Organic Compounds																
bis(2-Ethylhexyl)phthalate	SW8270	3	4.8	ug/L	1.1	UJ	1.1	UJ	1.1	U	1	UJ	3	JB	2	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.3	U	0.3	U	0.3	U	0.3	U	0.24	J	3.8	
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.3	U	0.3	U	0.3	U	0.3	U	0.15	U	0.89	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-5 Summary of Organic Compounds Detected in Surface Water at Acid Area 3

Analyte	Method	Max Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
Naphthalene	SW8270_PAH	0.043	0.62	ug/L	0.038	J	0.034	J	0.02	UJ	0.037	J	0.043	J	0.019	UJ
Semivolatile Organic Compounds																
bis(2-Ethylhexyl)phthalate	SW8270	3	4.8	ug/L	2	JB	2	JB	2	JB	2	JB	2	JB	3	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.68	J	0.6	J	0.61	J	0.42	J	0.34	J	0.15	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-5 Summary of Organic Compounds Detected in Surface Water at Acid Area 3

Analyte	Method	Max Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds										
Naphthalene	SW8270_PAH	0.043	0.62	ug/L	0.041	J	0.038	J	0.019	UJ
Semivolatile Organic Compounds										
bis(2-Ethylhexyl)phthalate	SW8270	3	4.8	ug/L	3	JB	3	JB	3	JB
Volatile Organic Compounds										
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.19	J
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-6 Summary of Metals Detected in Surface Water at Acid Area 3

Analyte	Method	Max Detect	Action Level	Location Date Units	AA3-SWSD-01 04/29/2005		AA3-SWSD-02 04/29/2005		AA3-SWSD-03 04/29/2005		AA3-SWSD-03 (field dup) 04/29/2005		AA3-SWSD-04 05/20/2006		AA3-SWSD-05 05/20/2006		AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																				
Aluminum	SW6010	195	3600	ug/L									100	U	100	U	127	J	100	U
Aluminum (total)	SW6010	404	3600	ug/L	118	J	205		404	J	244	J								
Barium	SW6010	43.1	260	ug/L									34.1	J	40.1		34.2	J	33.4	J
Barium (total)	SW6010	39	260	ug/L	33.7	J	31	J	39	J	31.6	J								
Calcium	SW6010	116000		ug/L									102000		113000		97200		94900	
Calcium (total)	SW6010	96300		ug/L	88600		96300		88800		82900									
Iron	SW6010	454	1100	ug/L									144		454		258		185	
Iron (total)	SW6010	644	1100	ug/L	62.6	J	209		644	J	307	J								
Magnesium	SW6010	26300		ug/L									23800		26300		21600		21000	
Magnesium (total)	SW6010	20100		ug/L	20100		19500		17300		16900									
Manganese	SW6010	74.1	88	ug/L									48		55.2		19		29.9	
Manganese (total)	SW6010	147	88	ug/L	27.3		23.4		**147**	**J**	41.2	J								
Potassium	SW6010	821		ug/L									613	J	637	J	500	U	500	U
Potassium (total)	SW6010	1820		ug/L	1400	J	1100	J	1820	J	1560	J								
Sodium	SW6010	5490		ug/L									3250		3430		3280		3150	
Sodium (total)	SW6010	3290		ug/L	3130		3290	J	2530		2510									

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-6 Summary of Metals Detected in Surface Water at Acid Area 3

Analyte	Method	Max Detect	Action Level	Location Date Units	AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006		AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																		
Aluminum	SW6010	195	3600	ug/L	100	U	100	U	100	U	100	U	100	U	195	J	100	U
Aluminum (total)	SW6010	404	3600	ug/L														
Barium	SW6010	43.1	260	ug/L	32.9	J	35.3	J	37.6	J	36.4	J	37.8	J	43.1		40.5	
Barium (total)	SW6010	39	260	ug/L														
Calcium	SW6010	116000		ug/L	93400		99400		111000		115000		113000		116000		112000	
Calcium (total)	SW6010	96300		ug/L														
Iron	SW6010	454	1100	ug/L	168		175		121		140		134		264		117	
Iron (total)	SW6010	644	1100	ug/L														
Magnesium	SW6010	26300		ug/L	20700		22100		23500		23600		23900		24500		23900	
Magnesium (total)	SW6010	20100		ug/L														
Manganese	SW6010	74.1	88	ug/L	29.2		44.9		30.1		25.9		23.9		74.1		28	
Manganese (total)	SW6010	147	88	ug/L														
Potassium	SW6010	821		ug/L	500	U	500	U	564	J	536	J	567	J	821	J	703	J
Potassium (total)	SW6010	1820		ug/L														
Sodium	SW6010	5490		ug/L	3020		3560		3940		3910		4540		5290		5490	
Sodium (total)	SW6010	3290		ug/L														

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-01 10/27/2004		AA3-SWSD-02 10/27/2004		AA3-SWSD-03 10/27/2004		AA3-SWSD-04 06/10/2006		AA3-SWSD-05 06/10/2006		AA3-SWSD-06 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	62.5		2200000	ug/Kg	1.12	U	62.5		36.1		1.6	U	1.8	U	1.6	U
Acetone	SW8260	295		1400000	ug/Kg	1.65	U	295	B	155	B	6.4	JB	18	JB	10	JB
Benzene	SW8260	5.86		640	ug/Kg	5.86		1.71	J	2.37	J	1.9	J	3	J	1.8	J
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.41	U	8.85		20.3		1.5	U	1.7	U	1.5	U
Cyclohexane	SW8260	13		280000	ug/Kg	10.2		2.84	J	5.26	J	4.6	J	7.1		0.62	U
Ethylbenzene	SW8260	2.96		190000	ug/Kg	2.96	J	1.14	U	1.14	J	0.91	J	1.4	J	0.86	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	11		4.34	J	6.55		6.6		9.4		5.4	J
Toluene	SW8260	12.8		66000	ug/Kg	12.8		4.04	J	4.54	J	3.5	JB	5.3	JB	2.9	JB
Xylenes, Total	SW8260	8.2		27000	ug/Kg	8.2		2.18	J	3.39	J	0.8	U	2.5	J	0.81	U
Semivolatile Organic Compounds																	
Acenaphthylene	SW8270	387			ug/Kg	42.4	UJ	387	J	91.8	J	57	UJ	57	UJ	56	UJ
Anthracene	SW8270	197		2200000	ug/Kg	30.9	UJ	197	J	35.8	U	57	UJ	57	UJ	56	UJ
Benzaldehyde	SW8270	325		610000	ug/Kg	292	J	325	J	97	J						
Benzo(a)anthracene	SW8270	298		620	ug/Kg	22.3	UJ	298	J	85.4	J	57	UJ	57	UJ	56	UJ
Benzo(a)pyrene	SW8270	510		62	ug/Kg	30.2	UJ	**510**	**J**	**130**	**J**	57	UJ	57	UJ	56	UJ
Benzo(b)fluoranthene	SW8270	619		620	ug/Kg	28.8	UJ	619	J	171	J	57	UJ	57	UJ	56	UJ
Benzo(g,h,i)perylene	SW8270	230			ug/Kg	27.4	UJ	192	J	31.7	U	57	UJ	57	UJ	56	UJ
Benzo(k)fluoranthene	SW8270	626		6200	ug/Kg	32.7	UJ	626	J	168	J	57	UJ	57	UJ	56	UJ
Benzoic acid	SW8270	1220		24000000	ug/Kg	1220	J	872	U	556	U						
Chrysene	SW8270	520		62000	ug/Kg	17.7	UJ	520	J	156	J	57	UJ	57	UJ	56	UJ
Fluoranthene	SW8270	1180		230000	ug/Kg	19.2	UJ	1180	J	356	J	57	UJ	57	UJ	56	UJ
Indeno(1,2,3-cd)pyrene	SW8270	270		620	ug/Kg	28.8	UJ	140	J	33.3	U	57	UJ	57	UJ	56	UJ
Phenanthrene	SW8270	222			ug/Kg	21.5	UJ	222	J	24.9	U	57	UJ	57	UJ	56	UJ
Pyrene	SW8270	504		230000	ug/Kg	16.6	UJ	504	J	168	J	57	UJ	57	UJ	56	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	384	UJ	695	U	444	U	140	UJ	140	UJ	140	UJ
Polyaromatic Hydrocarbon (PAH) Compounds																	
Benzo(a)anthracene	SW8270_PAH	240		620	ug/Kg							28	UJ	28	UJ	28	UJ
Benzo(a)pyrene	SW8270_PAH	420		62	ug/Kg									28	UJ	28	UJ
Benzo(b)fluoranthene	SW8270_PAH	490		620	ug/Kg									43	J	29	J
Benzo(g,h,i)perylene	SW8270_PAH	270			ug/Kg									28	UJ	28	UJ
Benzo(k)fluoranthene	SW8270_PAH	360		6200	ug/Kg									28	UJ	28	UJ
Chrysene	SW8270_PAH	410		62000	ug/Kg							28	UJ	28	UJ	28	UJ
Fluoranthene	SW8270_PAH	600		230000	ug/Kg							28	UJ	56	J	38	J
Indeno(1,2,3-cd)pyrene	SW8270_PAH	300		620	ug/Kg									28	UJ	28	UJ
Phenanthrene	SW8270_PAH	150			ug/Kg							28	UJ	28	UJ	28	UJ
Pyrene	SW8270_PAH	460		230000	ug/Kg							28	UJ	44	J	28	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-01 10/27/2004		AA3-SWSD-02 10/27/2004		AA3-SWSD-03 10/27/2004		AA3-SWSD-04 06/10/2006		AA3-SWSD-05 06/10/2006		AA3-SWSD-06 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	473		220	ug/Kg	18.1	U	**473**	J	22.4	U	5.8	U	6.2	U	5.8	U
PCB-1260 (Aroclor 1260)	SW8082	1130		220	ug/Kg	10.2	J	**1130**	J	122	J	5.8	U	6.2	U	5.8	U
Explosives																	
HMX	SW8330	120		310000	ug/Kg	27.3	U	27.9	U	27.5	U	91	U	91	U	87	U
RDX	SW8330	98		4400	ug/Kg	35	U	35.7	U	35.2	U	91	U	91	U	87	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound, Bold / shaded values represent PRG exceedances

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006		AA3-SWSD-08 06/12/2006		AA3-SWSD-08 (field dup) 06/12/2006		AA3-SWSD-09 06/09/2006		AA3-SWSD-10 06/09/2006		AA3-SWSD-11 06/09/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Volatile Organic Compounds																	
2-Butanone (Methyl ethyl ketone)	SW8260	62.5		2200000	ug/Kg	1.7	U	2.2	U	2	U	1.7	U	1.6	U	3.9	U
Acetone	SW8260	295		1400000	ug/Kg	14	JB	14	J	18	J	23	JB	16	JB	180	JB
Benzene	SW8260	5.86		640	ug/Kg	1.6	J	2.4	J	3.6	J	2.1	J	2.8	J	4.7	J
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.6	U	2	U	2.6	J	4.5	J	3.1	J	48	
Cyclohexane	SW8260	13		280000	ug/Kg	4.8	J	7.8	J	12		7.6		6.2		13	J
Ethylbenzene	SW8260	2.96		190000	ug/Kg	0.93	U	1.2	U	1.1	J	0.93	U	0.87	U	2.2	J
Methylcyclohexane	SW8260	17		260000	ug/Kg	6.2	J	10		14		10		8.8		17	
Toluene	SW8260	12.8		66000	ug/Kg	1.9	JB	3.2	JB	5.1	JB	3	JB	3.6	JB	9.1	JB
Xylenes, Total	SW8260	8.2		27000	ug/Kg	0.87	U	1.1	U	1	U	0.87	U	0.82	U	1.9	U
Semivolatile Organic Compounds																	
Acenaphthylene	SW8270	387			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Anthracene	SW8270	197		2200000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Benzaldehyde	SW8270	325		610000	ug/Kg												
Benzo(a)anthracene	SW8270	298		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	240	J
Benzo(a)pyrene	SW8270	510		62	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	**390**	**J**
Benzo(b)fluoranthene	SW8270	619		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	440	J
Benzo(g,h,i)perylene	SW8270	230			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	230	J
Benzo(k)fluoranthene	SW8270	626		6200	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	380	J
Benzoic acid	SW8270	1220		24000000	ug/Kg												
Chrysene	SW8270	520		62000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	380	J
Fluoranthene	SW8270	1180		230000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	120	J	590	J
Indeno(1,2,3-cd)pyrene	SW8270	270		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	270	J
Phenanthrene	SW8270	222			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Pyrene	SW8270	504		230000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	88	J	450	J
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	260	J	170	UJ	170	U	170	J	150	UJ	290	UJ
Polyaromatic Hydrocarbon (PAH) Compounds																	
Benzo(a)anthracene	SW8270_PAH	240		620	ug/Kg	30	UJ	34	UJ	34	U	32	UJ	45	J	240	J
Benzo(a)pyrene	SW8270_PAH	420		62	ug/Kg	30	UJ	34	UJ			32	UJ	30	UJ	**420**	**J**
Benzo(b)fluoranthene	SW8270_PAH	490		620	ug/Kg	40	J	34	UJ			32	UJ	45	J	490	J
Benzo(g,h,i)perylene	SW8270_PAH	270			ug/Kg	30	UJ	34	UJ			32	UJ	30	UJ	270	J
Benzo(k)fluoranthene	SW8270_PAH	360		6200	ug/Kg	42	J	34	UJ			32	UJ	33	J	360	J
Chrysene	SW8270_PAH	410		62000	ug/Kg	44	J	34	UJ	34	U	40	J	51	J	410	J
Fluoranthene	SW8270_PAH	600		230000	ug/Kg	84	J	43	J	75	J	32	UJ	120	J	600	J
Indeno(1,2,3-cd)pyrene	SW8270_PAH	300		620	ug/Kg	30	UJ	34	UJ			32	UJ	30	UJ	300	J
Phenanthrene	SW8270_PAH	150			ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	150	J
Pyrene	SW8270_PAH	460		230000	ug/Kg	60	J	34	UJ	59	J	40	J	92	J	460	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006		AA3-SWSD-08 06/12/2006		AA3-SWSD-08 (field dup) 06/12/2006		AA3-SWSD-09 06/09/2006		AA3-SWSD-10 06/09/2006		AA3-SWSD-11 06/09/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polychlorinated Biphenyls (PCBs)																	
PCB-1254 (Aroclor 1254)	SW8082	473		220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1260 (Aroclor 1260)	SW8082	1130		220	ug/Kg	80		130		170		120		15		83	
Explosives																	
HMX	SW8330	120		310000	ug/Kg	80	U	120	J	95	U	95	U	91	U	87	U
RDX	SW8330	98		4400	ug/Kg	80	U	98	J	95	U	95	U	91	U	87	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
Volatile Organic Compounds									
2-Butanone (Methyl ethyl ketone)	SW8260	62.5		2200000	ug/Kg	1.5	U	2.7	U
Acetone	SW8260	295		1400000	ug/Kg	28	JB	99	JB
Benzene	SW8260	5.86		640	ug/Kg	0.78	J	3.4	J
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.9	J	31	
Cyclohexane	SW8260	13		280000	ug/Kg	2.6	J	12	
Ethylbenzene	SW8260	2.96		190000	ug/Kg	0.82	U	1.5	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	3.2	J	15	
Toluene	SW8260	12.8		66000	ug/Kg	1	JB	4.5	JB
Xylenes, Total	SW8260	8.2		27000	ug/Kg	0.77	U	1.4	U
Semivolatile Organic Compounds									
Acenaphthylene	SW8270	387			ug/Kg	52	UJ	72	UJ
Anthracene	SW8270	197		2200000	ug/Kg	52	UJ	72	UJ
Benzaldehyde	SW8270	325		610000	ug/Kg				
Benzo(a)anthracene	SW8270	298		620	ug/Kg	52	UJ	72	UJ
Benzo(a)pyrene	SW8270	510		62	ug/Kg	52	UJ	72	UJ
Benzo(b)fluoranthene	SW8270	619		620	ug/Kg	52	UJ	72	UJ
Benzo(g,h,i)perylene	SW8270	230			ug/Kg	52	UJ	72	UJ
Benzo(k)fluoranthene	SW8270	626		6200	ug/Kg	52	UJ	72	UJ
Benzoic acid	SW8270	1220		24000000	ug/Kg				
Chrysene	SW8270	520		62000	ug/Kg	52	UJ	72	UJ
Fluoranthene	SW8270	1180		230000	ug/Kg	52	UJ	72	UJ
Indeno(1,2,3-cd)pyrene	SW8270	270		620	ug/Kg	52	UJ	72	UJ
Phenanthrene	SW8270	222			ug/Kg	52	UJ	72	UJ
Pyrene	SW8270	504		230000	ug/Kg	52	UJ	72	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	130	UJ	180	UJ
Polyaromatic Hydrocarbon (PAH) Compounds									
Benzo(a)anthracene	SW8270_PAH	240		620	ug/Kg	26	UJ	36	UJ
Benzo(a)pyrene	SW8270_PAH	420		62	ug/Kg	26	UJ	36	UJ
Benzo(b)fluoranthene	SW8270_PAH	490		620	ug/Kg	26	UJ	36	UJ
Benzo(g,h,i)perylene	SW8270_PAH	270			ug/Kg	26	UJ	36	UJ
Benzo(k)fluoranthene	SW8270_PAH	360		6200	ug/Kg	26	UJ	36	UJ
Chrysene	SW8270_PAH	410		62000	ug/Kg	26	UJ	36	UJ
Fluoranthene	SW8270_PAH	600		230000	ug/Kg	35	J	36	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	300		620	ug/Kg	26	UJ	36	UJ
Phenanthrene	SW8270_PAH	150			ug/Kg	26	UJ	36	UJ
Pyrene	SW8270_PAH	460		230000	ug/Kg	36	J	36	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-7 Summary of Organic Compounds Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006		AA3-SWSD-13 06/09/2006	
						Result	VQ	Result	VQ
Polychlorinated Biphenyls (PCBs)									
PCB-1254 (Aroclor 1254)	SW8082	473		220	ug/Kg	5.4	U	7.5	U
PCB-1260 (Aroclor 1260)	SW8082	1130		220	ug/Kg	8.6	J	19	
Explosives									
HMX	SW8330	120		310000	ug/Kg	87	U	80	U
RDX	SW8330	98		4400	ug/Kg	87	U	80	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-8 Summary of Metals Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-01 10/27/2004		AA3-SWSD-02 10/27/2004		AA3-SWSD-03 10/27/2004		AA3-SWSD-04 06/10/2006		AA3-SWSD-05 06/10/2006		AA3-SWSD-06 06/10/2006		AA3-SWSD-07 06/09/2006		AA3-SWSD-08 06/12/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																					
Aluminum	SW6010	10800	15500	7600	mg/Kg	8390		6850		7410		9390	J	9590	J	10200	J	8480	J	9040	J
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	4.95		1.16	U	2.53	J	9.3	J	15.4	J	13.8	J	10.3	J	12.7	
Barium	SW6010	79	826	540	mg/Kg	69.4		62.9		72.5		78.6		77.4		79		60.5	J	68.8	
Beryllium	SW6010	0.68	1	15	mg/Kg	0.396	J	0.32	J	0.355	J	0.6	J	0.59	J	0.66	J	0.55	J	0.6	J
Cadmium	SW6010	0.699		3.7	mg/Kg	0.463	J	0.699	J	0.509	J	0.29	U	0.31	U	0.29	U	0.31	U	0.51	J
Calcium	SW6010	77700	52300		mg/Kg	28700		64000		59300		29000		32700		40500		46300		56600	
Chromium	SW6010	18.3	29		mg/Kg	13.8		13.2		12.8		15.3	J	15.1	J	16.3	J	14.4	J	15.3	J
Cobalt	SW6010	10.7	116	90	mg/Kg	8.11		5.64		6.82		8.3	J	8.5	J	9.8	J	8.4	J	9.8	J
Copper	SW6010	30.1	56.2	310	mg/Kg	16.1		17.5		17.8		21.3		21		24.4		21.8		24.6	
Iron	SW6010	25500	234000	2300	mg/Kg	18100		14800		16500		19500	J	23300	J	22200	J	20700	J	23000	J
Lead	SW6010	84.1	48.6	40	mg/Kg	15		**84.1**		**61.8**		13.4		14.3		14.6		20.8		22.1	J
Magnesium	SW6010	19800	10400		mg/Kg	8740		5800		9140		10400		8380		13200		12300		15200	J
Manganese	SW6010	586	3506.2	180	mg/Kg	465	J	452	J	448	J	235	J	290	J	311	J	321	J	388	J
Mercury	SW7471	0.084	0.1	2.3	mg/Kg	0.0292		0:0415	J	0.0299	J	0.044	B	0.048	B	0.042	B	0.05	B	0.028	JB
Nickel	SW6010	29.3	55.1	160	mg/Kg	19.8		16.2		18.1		22.7		22.6		25.8		23.1		26	
Potassium	SW6010	1830	3390		mg/Kg	1120	J	864	J	1060		935	J	1010	J	1050	J	1130	J	1200	J
Silver	SW6010	0.355	11.1	39	mg/Kg	0.222	J	0.342	J	0.355	J	0.29	U	0.31	U	0.29	U	0.31	U	0.34	U
Sodium	SW6010	105			mg/Kg	71.6	J	105	J	94.8	J	293	U	309	U	291	U	306	U	336	U
Thallium	SW6010	5.33	1.3	0.52	mg/Kg	**3.56**		**5.33**		1.1	U	0.37	U	0.39	U	0.36	U	0.38	U	0.42	U
Vanadium	SW6010	25.7	40.9	7.8	mg/Kg	22.4		15.7		20.8		24.1		24.4		25.7		20.8		22.4	
Zinc	SW6010	99.6	321.8	2300	mg/Kg	63.3		79.1		66.4		55.4		60.8		57.6		64.8		76.1	J

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

Table 6-8 Summary of Metals Detected in Sediment at Acid Area 3

Analyte	Method	Max Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-08 (field dup) 06/12/2006		AA3-SWSD-09 06/09/2006		AA3-SWSD-10 06/09/2006		AA3-SWSD-11 06/09/2006		AA3-SWSD-12 06/09/2006		AA3-SWSD-13 06/09/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Metals																	
Aluminum	SW6010	10800	15500	7600	mg/Kg	10800	J	7520	J	5730	J	7080	J	8690	J	8440	J
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	10.5		5.8	J	5.4	J	7.4	J	11.7	J	7.1	J
Barium	SW6010	79	826	540	mg/Kg	78.5		62.6	J	41.6	J	71.4	J	69.3		67.6	J
Beryllium	SW6010	0.68	1	15	mg/Kg	0.68	J	0.48	J	0.36	J	0.57	U	0.52	J	0.53	J
Cadmium	SW6010	0.699		3.7	mg/Kg	0.57	J	0.33	U	0.29	U	0.57	U	0.33	J	0.39	U
Calcium	SW6010	77700	52300		mg/Kg	68300		68600		34200		59900		62700		77700	
Chromium	SW6010	18.3	29		mg/Kg	18.3	J	12.7	J	9	J	11.8	J	14.5	J	14.2	J
Cobalt	SW6010	10.7	116	90	mg/Kg	10.7	J	8	J	4.9	J	6.4	J	9.6	J	8.5	J
Copper	SW6010	30.1	56.2	310	mg/Kg	30.1		20.3		12.3		22.3		24.1		22.3	
Iron	SW6010	25500	234000	2300	mg/Kg	25500	J	16400	J	12400	J	16600	J	20400	J	19600	J
Lead	SW6010	84.1	48.6	40	mg/Kg	21.4	J	20.3		13.6		30.8		12.6		15.1	
Magnesium	SW6010	19800	10400		mg/Kg	19800	J	16700		9480		8940		18500		15600	
Manganese	SW6010	586	3506.2	180	mg/Kg	536	J	500	J	207	J	586	J	484	J	495	J
Mercury	SW7471	0.084	0.1	2.3	mg/Kg	0.026	JB	0.043	JB	0.044	B	0.084	JB	0.038	B	0.055	B
Nickel	SW6010	29.3	55.1	160	mg/Kg	29.3		21.4		13.7		16.8	J	26		22.8	
Potassium	SW6010	1830	3390		mg/Kg	1600	J	1390	J	649	J	993	J	1830	J	1410	J
Silver	SW6010	0.355	11.1	39	mg/Kg	0.36	U	0.33	U	0.29	U	0.57	U	0.26	U	0.39	U
Sodium	SW6010	105			mg/Kg	359	U	331	U	293	U	568	U	264	U	391	U
Thallium	SW6010	5.33	1.3	0.52	mg/Kg	0.45	U	0.41	U	0.37	U	0.71	U	0.33	U	0.49	U
Vanadium	SW6010	25.7	40.9	7.8	mg/Kg	25.4		18.8		14.7		16.8	J	20.5		20.9	
Zinc	SW6010	99.6	321.8	2300	mg/Kg	78.8	J	51.5		35.6		99.6		59.1		61.7	

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potential cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified.

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound. Bold / shaded values represent PRG exceedances.

APPENDIX A

Appendix A

NASA Drilling and Excavation Permit.

Digging and Excavation Permit

Additional Comments:

Part II - To be completed by the Requestor's Supervisor or Sub-Contract Monitor

	Yes	No	
GRP	X		Have known underground utilities and structures been identified and physically located and marked?
GRP	X		Have all conflicts between the proposed digging and excavation activity and the underground utilities and structures been resolved?
GRP	X		Have protective systems been identified and implemented to protect personnel from cave-ins or collapsing soil?
		X	Has a C-133, Soil Determination Checklist been completed in accordance with Chapter 34 of the GRC Environmental Programs Manual? **(Environmental Sampling)**

Competent Person	Organization:	Phone Number:
N/A Al Hardesty	Jacobs Eng	865-621-9517
Requestor's Supervisor or Sub-Contract Monitor:	**Phone Number:**	**Date:**
Virgil Johnson	865-220-4933	10/28/04

Part III - To be completed by GSO and EMO

	Yes	No	
GRP	✓		Have all known and potential safety hazards been identified?
GRP	✓		Have known underground utilities and structures been identified and physically located and marked?
GRP	✓		Have all conflicts between the proposed digging and excavation activity and the underground utilities and structures been resolved?
GRP	✓		Have adequate safety control measure been identified and implemented?
	✓		Have all known and potential environmental concerns been identified and adequately controlled (Eg, stormwater control)?
		✓	Has a C-133, Soil Determination Checklist been completed in accordance with Chapter 34 of the GRC Environmental Programs Manual? Environmental Sampling Activity.

Glenn Safety Office:	Approval Date:
Amy L. Bauer	10/28/04
Environmental Management Office:	**Approval Date:**
Robert Kelly	10/28/04
Plum Brook Reactor Facility Manager (if required):	**Approval Date:**
NA	

Digging and Excavation Permit

Part I - To be completed by the Requestor

Requestor (Please print clearly): Jacobs' Engineering(Al Hardesty)		Request Date:10-27-04
Requestor's Organization: Jacobs Engeineering	Requestor's Mail Stop:N/A	Requestor's Phone Number: 865-220-6043
Work Order or Contract Number: N/A	Site Location: See Attached Site maps (2)	

Description of Work (Include start and stop dates, reference drawings, etc. Attach a plot plan of the work area.)

This job will consist of Core sampling and Drilling. The start date is 10-28-04 and the stop date will be 12-31-04, Plot plans are attached

10-30 foot depth for soil sampling
70 foot for monitoring wells

Description of All Safety and Environmental Control Measures:
All NASA Safety and environmental regulations will be followed.
All surrounding NASA utilities will be marked before drilling
The equipment at the site will be the Drilling Rig

Emergency procedures per Health & Safety Plan.

APPENDIX B

Appendix B

Soil Boring Logs – Acid Area 2

HTRW DRILLING LOG

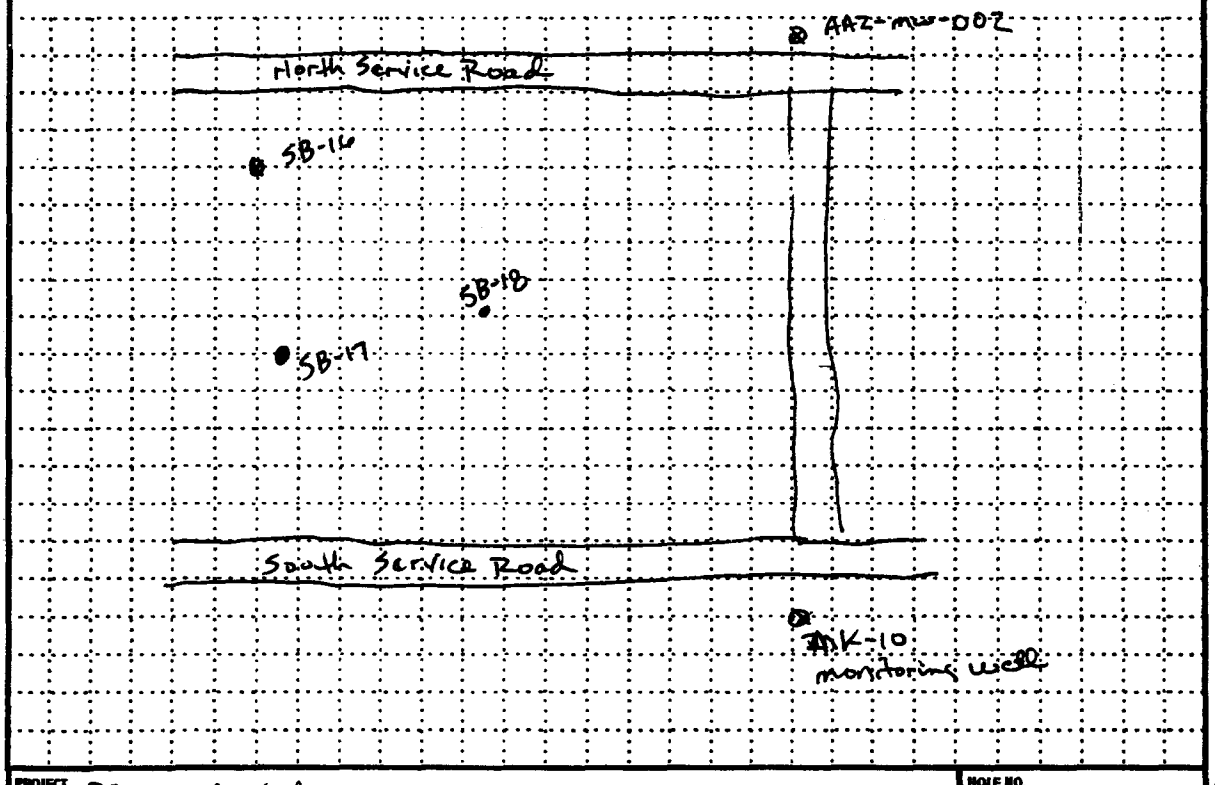
DISTRICT	USACE - Nashville
HOLE NUMBER	AAZ-SB-16
1. COMPANY NAME	Jacobs Engineering
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 2
3. PROJECT	35B49304 - Acid Areas
4. LOCATION	Acid Area 2 - SB-16
5. NAME OF DRILLER	Jeremy LeKrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro Core 2" 7/8"
8. HOLE LOCATION	AAZ-SB-16 N - 623433.4820 E - 1908915.1350
9. SURFACE ELEVATION	643.03
10. DATE STARTED	10/28/04
11. DATE COMPLETED	10/28/04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	PCB	nitroaromatics	SVOC	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Areas - 35B49304	AAZ-SB16

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB16

PROJECT: 35BH9304

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (2)	DEPTH/ SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0"-0", OL, topsoil dark brown (7.5YR 3/2) sandy, dry, loose, low plasticity.	0ppm		sample 0.5'-1.5'		
	1'	6"-2.5', SM, silty sand, light brown (10YR, 4/3) loose, low plasticity, dry.					
	2'						
		2.5'-3', SM, silty sand, light to medium grey (10YR, 6/1), loose, low plasticity, dry.					
	3'				sample 3'-5'		
		3'-5.5', ML, sandy silt, light brown (10YR, 4/4) firm, low plasticity, dry					
	4'						
	5'						
		5.5'-9.5', ML, silt light brown (10YR, 4/4) firm, low plasticity, moist to wet.					
	6'						
	7'						
	8'				sample 8'-10'		
	9'						
	10'	9.5-10', CL, clay, dark grey (10YR, 4/1), stiff to firm, med plasticity, wet to saturated.					

PROJECT: PBOW - Acid Areas - 35BH9304

HOLE NO. AA2 SB16

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

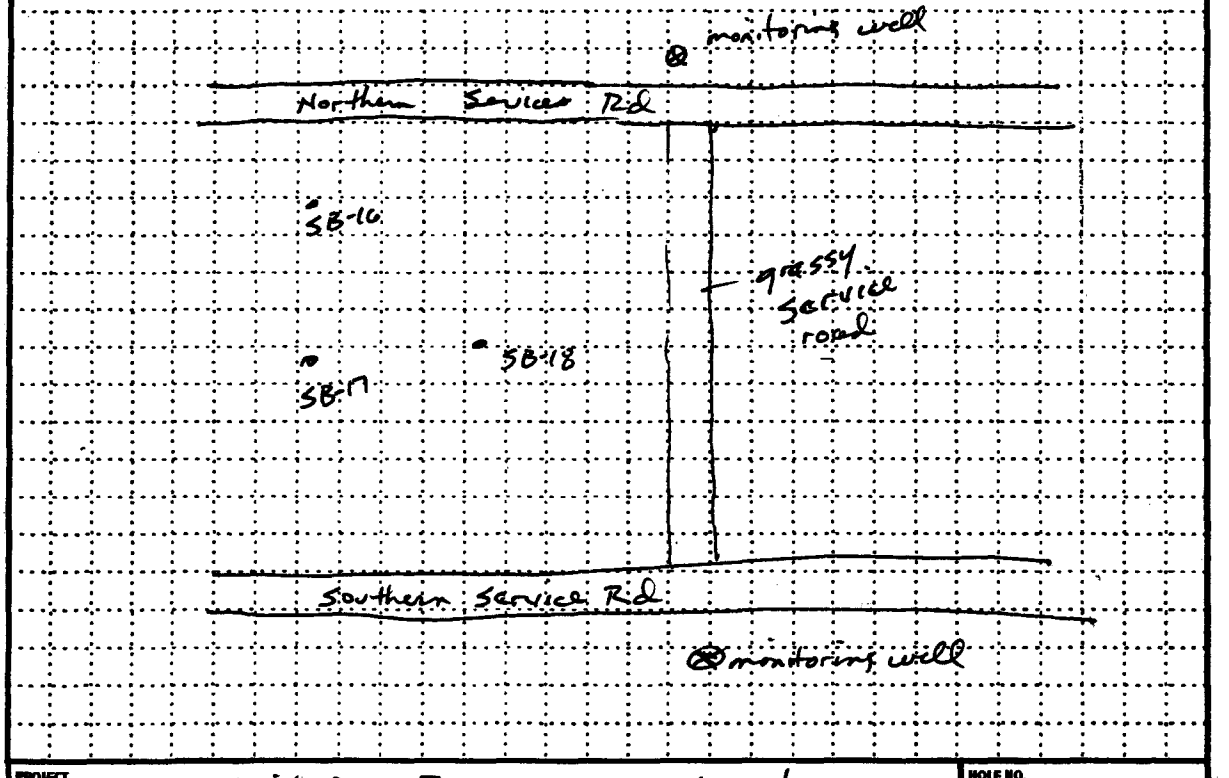
DISTRICT	USACE - Nashville
HOLE NUMBER	AAZ-SB17
1. COMPANY NAME	Jacobs Engineering
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 2 SHEETS
3. PROJECT	PBOW - Acid Area 2 RI
4. LOCATION	AAZ - SB17
5. NAME OF DRILLER	Jeremy LaKrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	macro core 2 7/8"
8. HOLE LOCATION	AAZ - SB17 N-623284.937 E-1908897.300
9. SURFACE ELEVATION	643.6
10. DATE STARTED	10-28-04
11. DATE COMPLETED	10-28-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOC	nitroaromatics	PCB	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Handsoty

LOCATION SKETCH/COMMENTS **SCALE:**



PROJECT	HOLE NO.
PBOW - Acid Area 2 RI - 35BH9304	AAZ-SB17

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB17

PROJECT: PBOW - Acid Area 2 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SCREENED SAMPLE OR CORE FOR NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-8", OL, silt, AFA gravelly, sandy, gravel is angular, dark brown (10YR, 3/1). loose, moist.	0ppm		samples 0.5' to 1.5'		
	1						
		8"-1.5', CL, silty clay, dark brown (10YR, 3/1), firm to stiff, low plasticity dry to moist.					
	2						
		1.5'-6', CL, silty clay, medium brown (10YR, 5/4), stiff, medium plasticity, moist			samples 3'-5'		
	3						
	4						
	5				samples		
	6	6'-10', CL/CH, Clay, light brown (10YR, 5/3) soft to firm, medium to high plasticity, moist, wet at 8.0'					
	7						
	8				Samples 8'-10'		
	9						
	10	TD-10'					

PROJECT: PBOW - Acid Area 2 RI - 35B49304

HOLE NO. AA2-SB17

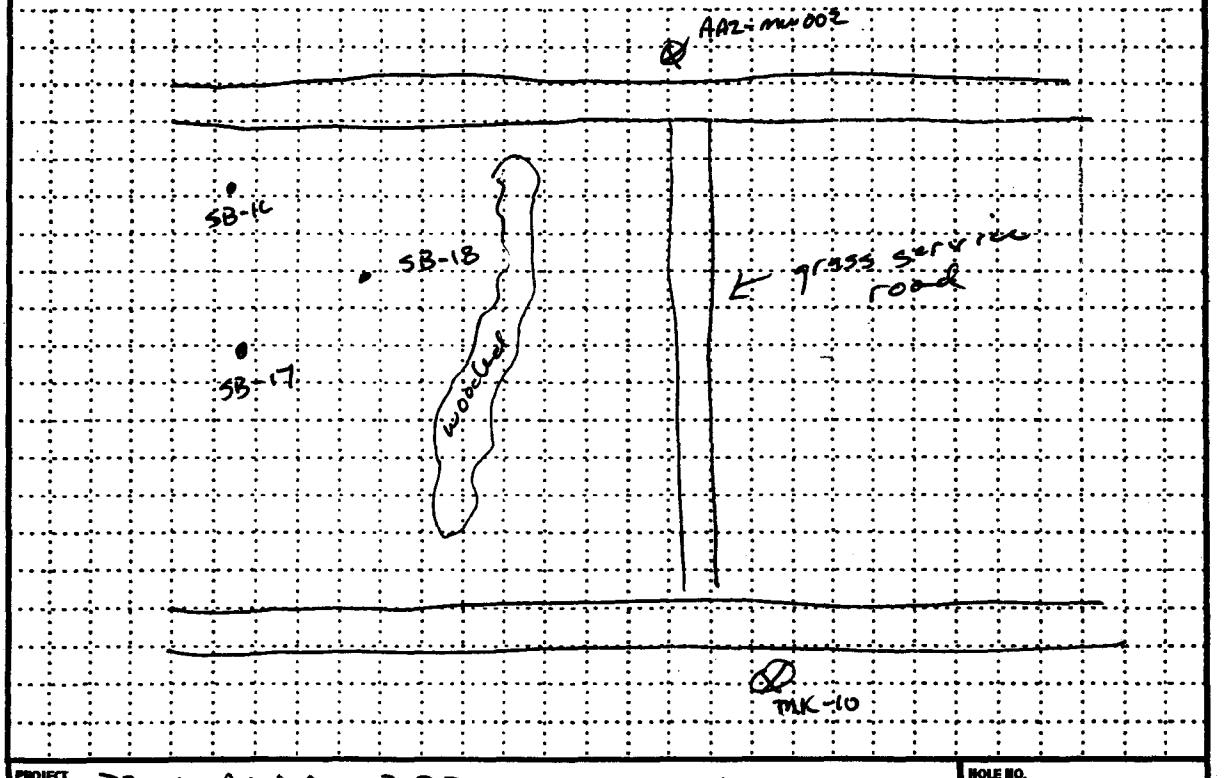
ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE Nashville	HOLE NUMBER AAZ-SB18
1. COMPANY NAME Jacobs Engineering	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2 RI	4. LOCATION Acid Area 2 SB18	
5. NAME OF DRILLER Jeremy LaKrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2 1/2"	8. HOLE LOCATION AAZ - SB18 N-623248.2040 E-1909054.8310	
	9. SURFACE ELEVATION 643.62	
	10. DATE STARTED 10-28-04	11. DATE COMPLETED 10-28-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
None						
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	nitroaromatics		
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
bentonite chips				Al Hardesty		

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2 RI 35BH9304	HOLE NO. AAZ - SB18

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-SB18

PROJECT: PBOW - Acid Area Z

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	UNDISTURBED SAMPLE OR CORE SIZE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1	0"-6", OL, topsoil, silty organic, dark brown (10YR 3/2), firm, moist, low plasticity	0 ppm reading		sample 0.5'-1.5' QA + FD		
	2	6"-2.5', ML, silt, with fine sand, light brown (10YR 5/3), loose, low plasticity, moist to dry					
	3	2.5'-7.5', CL, silty clay, light brown, (10YR 5/3) with small 1/8" silt lenses, firm, medium plasticity, moist. silt layer from 3.0' to 3.5'. high plasticity from 7.0 to 7.5' - CH			sample 3'-5 QA + FD		
	4						
	5						
	6						
	7						
	8	7.5'-10', CL/CH, clay light to medium grey (10YR 5/1), soft, medium to high plasticity wet.			sample 8'-10'		
	9						
	10	TD-10'					

PROJECT: PBOW - Acid Area Z - 35349304

HOLE NO. AAZ-SB18

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

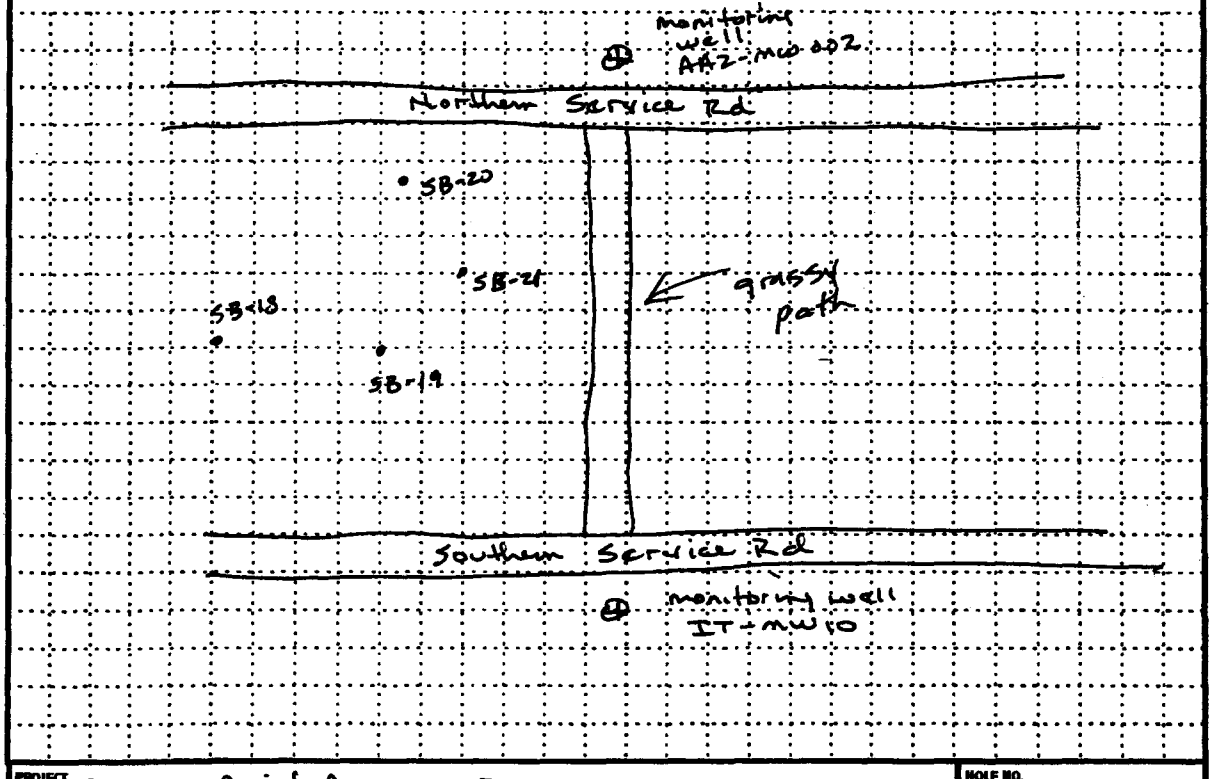
HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AAZ-SB19
1. COMPANY NAME Jacobs Eng.	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AAZ - SB19	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2 1/2"	8. HOLE LOCATION AAZ - SB19 N-623271.43 E-1909308.344	
	9. SURFACE ELEVATION 641.72	
	10. DATE STARTED 10-29-04	11. DATE COMPLETED 10-29-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 7'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AAZ-SB19

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB19

PROJECT: PBOW - Acid Area 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-8", OL, organic silt, dark brown (10YR, 3/1), loose, no plasticity, moist	0ppm PID			samples 0.5', 1.5'	
	1	8"-2.75', ML, silt, firm, dark to medium brown (10YR, 4/2) low plasticity, moist.					
	2						
	3	2.75'-3.0', CL, silty clay, medium brown (10YR, 4/2), firm, low plasticity, moist				samples 3'-5'	
	4	3.0'-6.0', ML, silt, light brown (10YR, 4/3) firm to soft, no plasticity, moist					
	5						
	6	6.0-6.25', CL, silty clay, light brown (10YR, 4/2), firm, low to medium plasticity, moist					
	7						
	8	6.25-7.0', ML, silt, light to medium brown (10YR, 4/3), loose, no plasticity, moist.					
	9	TD - 7.0'					
	10						

PROJECT: PBOW - Acid Area 2+3

HOLE NO. AA2-SB19

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

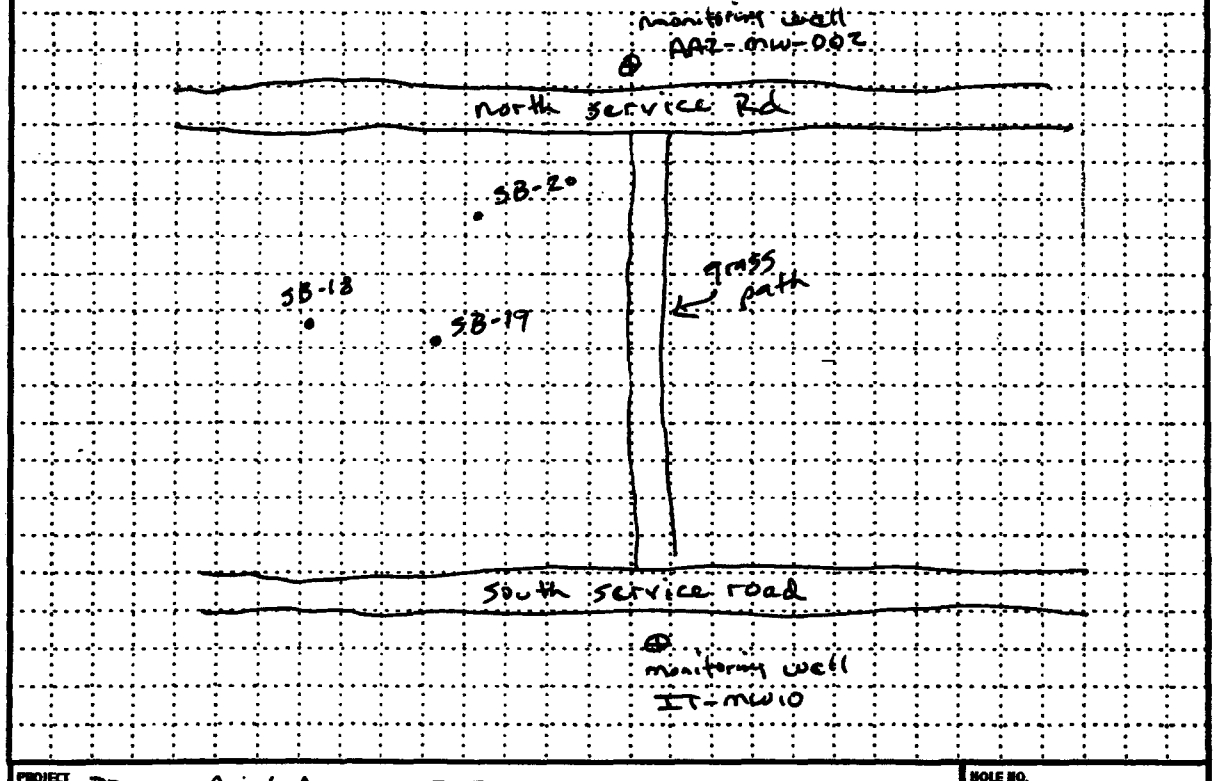
DISTRICT	USACE - Nashville
HOLE NUMBER	AA2-SB20
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 2
3. PROJECT	PBOW - Acid Areas 2+3 RI
4. LOCATION	Acid Area 2 - SB-20
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro core 2 1/8"
8. HOLE LOCATION	N-623340.045 AA2-SB20 E-1909336.777
9. SURFACE ELEVATION	642.9
10. DATE STARTED	10-29-04
11. DATE COMPLETED	10-29-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	Nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA2-SB20

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB20

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	DEPTH/ID SAMPLE OR CORE RUN (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-12", OL/OH, organic silty clay, dark brown (10YR, 3/2), soft to firm, low plasticity, moist.	PID 0 ppm		sample 0.5' to 1.5'		
	1						
		1'-3.75', ML/SM, silty sandy, sandy silt, light brown (10YR 5/6) loose, low plasticity, moist to dry.					
	2						
	3				sample 3'-5'		
		3.75'-5.0', CL, silty clay, light brown (10YR, 4/4), soft to firm, medium to low plasticity, moist					
	4						
	5						
		5.0-6.5', CL, clay (light brown - 10YR, 4/3) soft, medium to low plasticity, moist to wet					
	6						
		6.5'-8.0', CL, silty clay, light brown (10YR, 5/3), firm, low plasticity, moist					
	7						
	8	8.0-10.0, CL, clay, light brown (10YR, 5/3) grading to light grey at 9.0' (10YR, 5/1), soft to firm, medium plasticity, moist to wet.			sample 8'-10'		
	9						
	10	TD - 10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA2-SB20

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

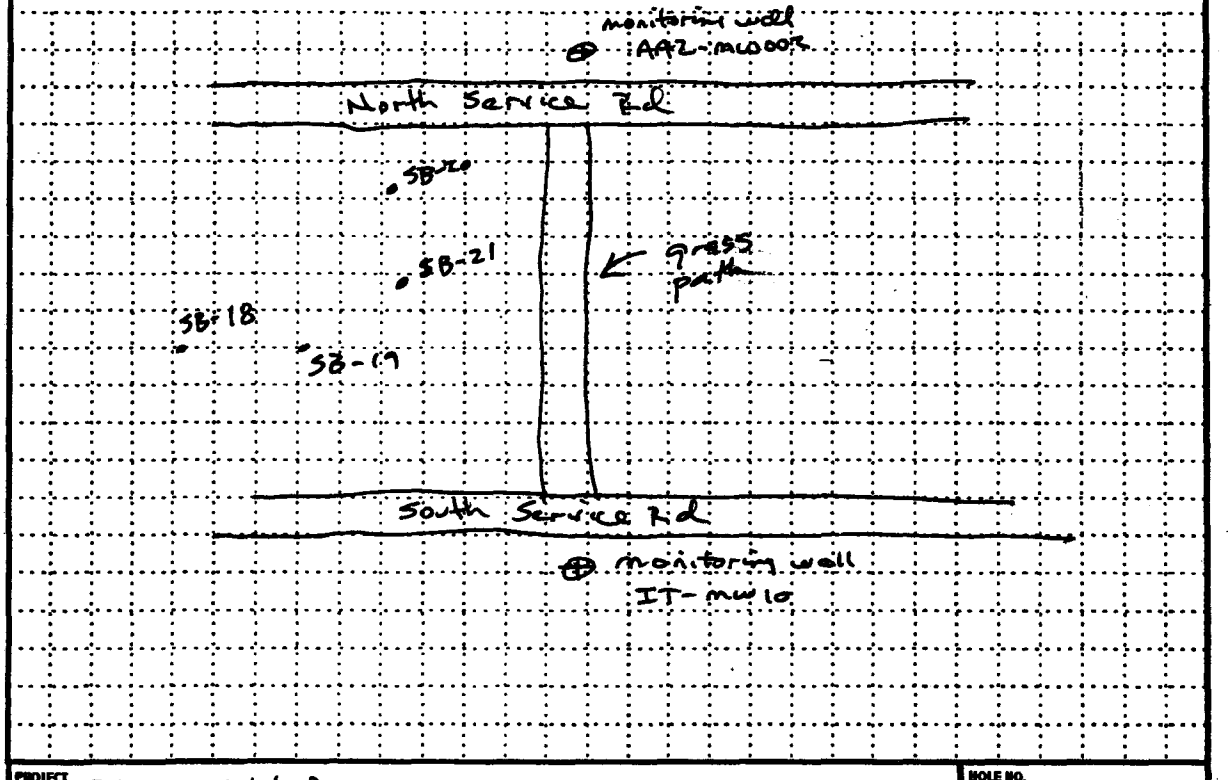
HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AAZ-SB21
1. COMPANY NAME Jacobs Engineering	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Areas 2+3 RI	4. LOCATION AAZ - ~~SB20~~ SB21	
5. NAME OF DRILLER Jaremy Leckrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2 1/8"	8. HOLE LOCATION AAZ - SB21 N-623308.777 E-1909370.639	
	9. SURFACE ELEVATION 641.49	
	10. DATE STARTED 10-29-04	11. DATE COMPLETED 10-29-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 7 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Areas 2+3 RI	HOLE NO. AAZ-SB21

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-SB21

PROJECT: PBOW- Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-6", OL, organic silt, dark brown (10YR, 3/2), loose, low plasticity, moist.	0 ppm PID		samples 0.5'-1.5'		
	1	6"-3.5', ML/CL, silty clay, clayey silt, medium to dark brown (10YR, 4/3), firm to stiff, low plasticity, moist					
	2						
	3				samples 3'-5'		
		3.5'-3.6', SM, silty sand, light brown (10YR, 5/3), loose no plasticity, moist					
	4	3.6'-4.9', CL, silty clay, light brown (10YR, 5/2), soft to firm, medium plasticity, moist to wet					
	5	4.9'-5.1', ML, silt, light brown (10YR, 5/3), loose, no plasticity, moist					
	6	5.1'-7.0', CL, clay, light brown (10YR, 5/3), soft to firm, medium to low plasticity, wet.					
	7	TD - 7.0'					
	8						

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AAZ-SB21

ENG FORM 5058A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

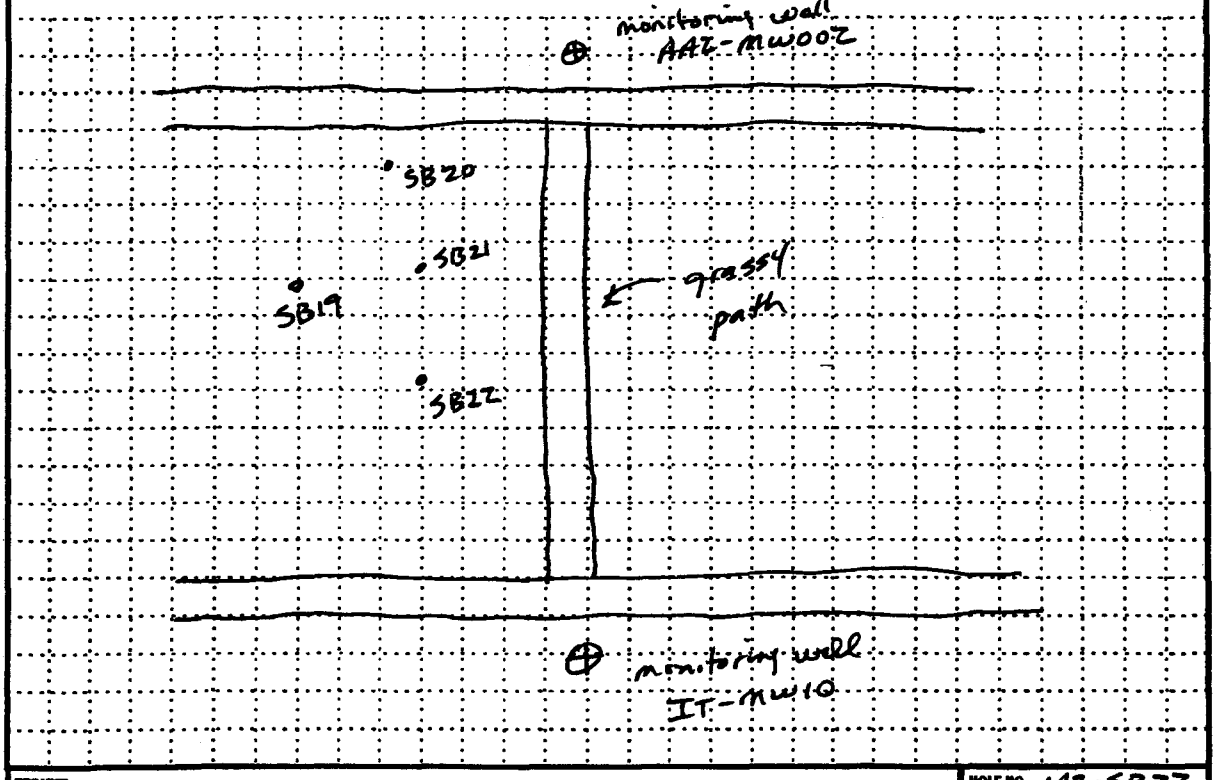
HTRW DRILLING LOG	DISTRICT USACE Nashville	HOLE NUMBER AAZ-SB22
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AAZ-SB-22	
5. NAME OF DRILLER Jeremy Heckrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2 7/8"	8. HOLE LOCATION AAZ - SB22 N-623205.19 E-1909379.143	
	9. SURFACE ELEVATION 641.58	
	10. DATE STARTED 10-29-04	11. DATE COMPLETED 10-29-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 7'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. ~~58~~ AAZ-SB22

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-SBZZ

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	DEPTH SAMPLE OR CORE RUN (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0" - 6", OL, organic silt, sandy, dark brown (10YR, 3/2), loose, dry	No readings due to high moisture content from rain PID not functioning properly		samples 0.5' - 1.5		
	1	6" - 3.5', ML, clayey silt, firm to stiff, medium brown (10YR, 5/3), dry.					
	2						
	3				samples 3' - 5'		
	4	3.5' - 5.5', CL, clay, medium brown (10YR, 5/4) firm to stiff, medium plasticity, moist					
	5						
	6	5.5' - 7.0', CL, silty clay w/ silt lenses at 6.1' to 6.2' and at 6.4 to 6.5', medium brown (10YR, 4/3) firm, medium plasticity, wet.					
	7	TD - 7.0'					
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-SBZZ

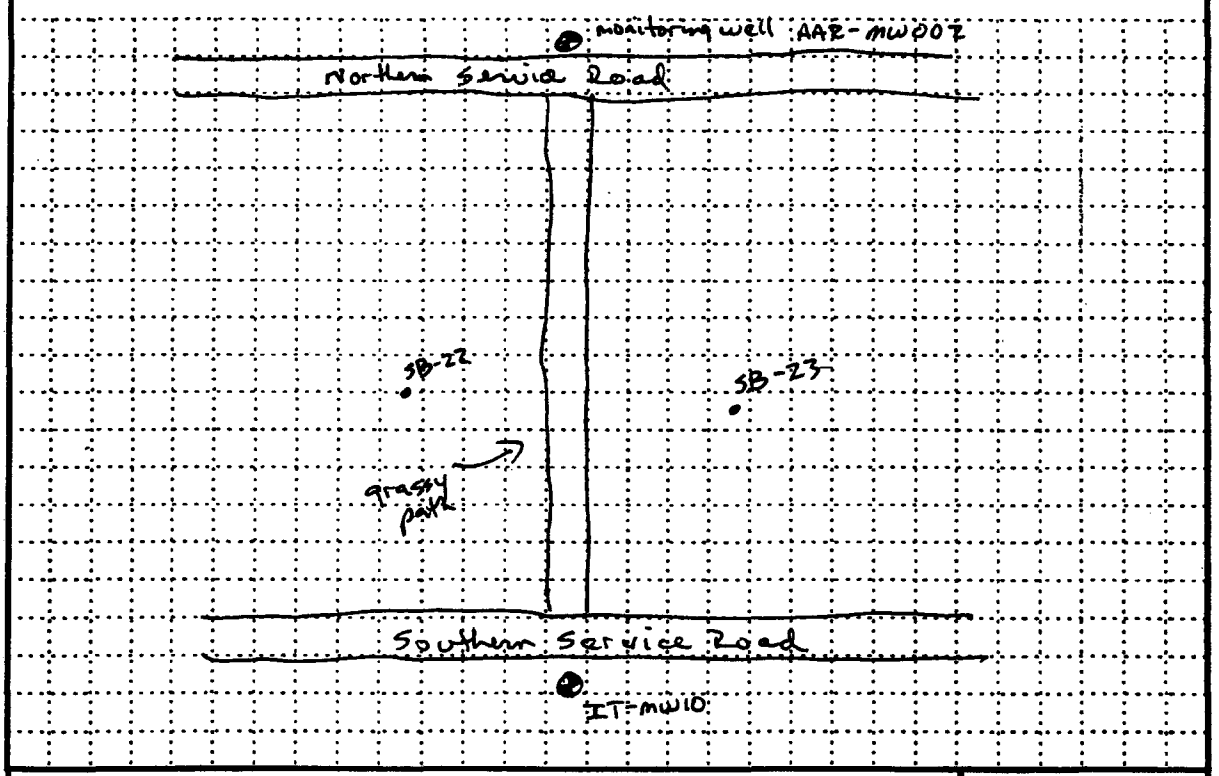
ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AAZ-SB23
1. COMPANY NAME Jacobs Eng.	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AAZ-SB23	
5. NAME OF DRILLER Jeremy Lacknone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2 1/8"	8. HOLE LOCATION AAZ-SB23 N-623167.522 E-1909583.033	
	9. SURFACE ELEVATION 639.6	
	10. DATE STARTED 11-1-04	11. DATE COMPLETED 11-1-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
None						
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOC	PCBs	[illegible]	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Al Hardesty		

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Areas 2+3 RI	HOLE NO. AAZ-SB23

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB23

PROJECT: PBOW - Acid Areas 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	UNIFIED SOIL CLASS. OR ROCK SYM. (e)	SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-9", OL, organic silt, dark brown (7.5YR, 2.5/2), soft moist.	0ppm		Samples at 0.5'-1.5'		
	1	9"-3", ML/CL, clayey silt to silty clay, medium brown (10YR 4/3), gravel throughout, backfill material, firm to stiff, dry to moist, low plasticity.					
	2						
	3	3'-4.75', CL, silty clay, medium brown (10YR, 4/3), firm, medium to low plasticity, moist			Samples at 3'-5'		
	4						
	5	4.75'-8', ML, clayey silt, medium brown (10YR, 5/3), soft to firm, low plasticity, wet.					
	6						
	7						
	8	8'-10', CL, silty clay, silt lense at 9.5'-9.6', medium brown (10YR, 5/2) changing to medium gray (10YR, 4/1) at 9.8', soft to firm, moist to wet			Samples at 8'-10'		
	9						
	10	TD - 10'					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA2-SB-23

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

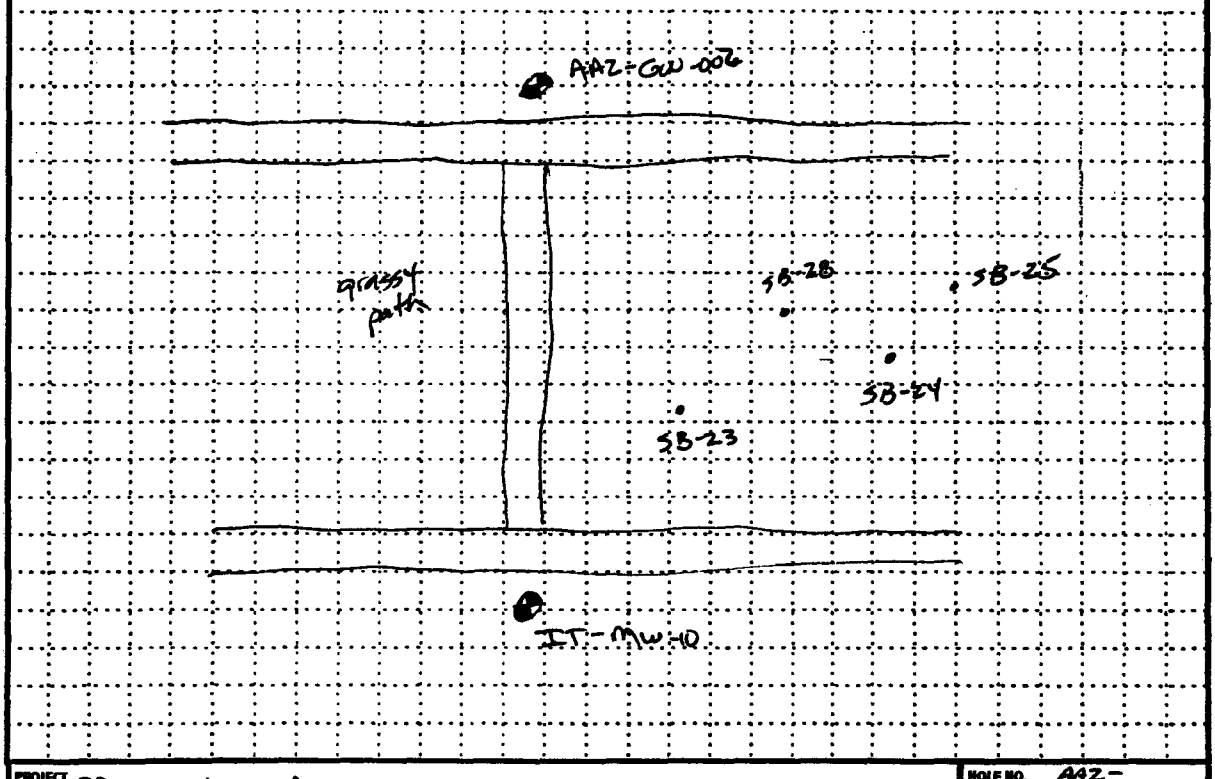
DISTRICT	USACE - Nashville
HOLE NUMBER	AA2-SB24
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / SHEETS	1 OF 2
3. PROJECT	PBOW - Acid Areas 2+3
4. LOCATION	AA2- SB24
5. NAME OF DRILLER	Jeremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	macro core 2 1/2"
8. HOLE LOCATION	AA2-SB24 N-623160.4170 E-1909780.8920
9. SURFACE ELEVATION	640.36
10. DATE STARTED	11-1-04
11. DATE COMPLETED	11-1-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	5.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Areas 2+3 RI HOLE NO. AA2-SB24

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-SBZ4

PROJECT: PBOW - Acid Areas 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	UNDISTURBED SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0"- 4", OL, organic silt, dark brown (10YR, 3/2) soft, no plasicity, moist, some gravel at 2".					
	1	4" - 1.5', ML, sandy silt, light brown (10YR, 4/3) firm to soft, loose in places, dry					
	2	1.5' - 1.6', gravel backfill gray, loose.					
		1.6' - 2.7', ML, silt, w/fine sand, some gravel, backfill, dark to red brown (10YR, 3/3)			Sample 3-4.5'		
	3	2.7 to 2.9, gravel backfill,					
	4	2.9 - 4.5, ML, silt with sand, silt, dark to medium brown					
	5						
	6	TD 4.5' - hit refusal on concrete footer, offset - 2nd attempt hit refusal					
	7						
	8						
	9						
	10						

PROJECT: PBOW - Acid Areas 2+3

HOLE NO. AAZ-SBZ4

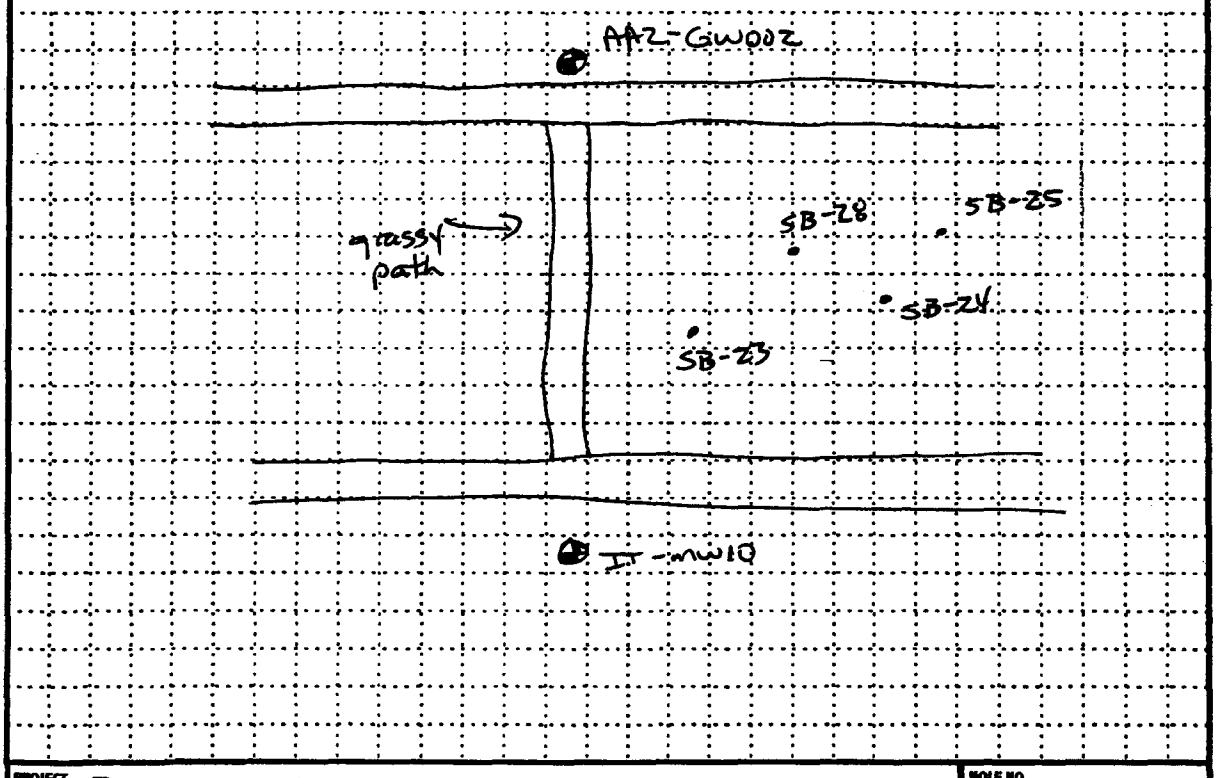
ENG FORM 5058A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA2-SB25
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 2
3. PROJECT	PBOW - Acid Areas 2+3
4. LOCATION	AA2-SB25
5. NAME OF DRILLER	Jeremy Lockrane
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro Core
8. HOLE LOCATION	AA2-SB25 N-623218.703 E-1909850.03
9. SURFACE ELEVATION	640.82
10. DATE STARTED	11-1-04
11. DATE COMPLETED	11-1-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC ✓
METALS	✓
OTHER (SPECIFY)	SVOCs
OTHER (SPECIFY)	PCBs
OTHER (SPECIFY)	nitroaromatics
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	Bentonite chips
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	PBOW - Acid Areas 2+3
HOLE NO.	AA2-SB25

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB25

PROJECT: PBOW - Acid Areas 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	1	0" - 13", OL, organic silt, with gravel, and coal fragments or cinders, dark brown (10 YR, 3/2), firm, low plasticity, moist.			samples 0.5 - 1.5'		
	2	13" - 1.5', SM, silty sand, medium yellowish brown (10 YR, 5/6)			1.5 - 3.5' sample		
	3	1.5' - 1.9', layer of coal, cinders, dark brown to black (10 YR 2/2).			AFH samples		
	4	1.9' - 5' CL/ML, silty clay to clayey silt, light brown (10 YR, 4/4), firm, low to medium plasticity, moist.			~~3.5~~ AFH		
	5	TD - 5'					
	6	collected second depth samples from 1.5' to 3.5' due to soil conditions					

PROJECT: PBOW - Acid Areas 2+3

HOLE NO. AA2-SB25

EMG FORM 5056A-R, AUG 94 (Proponent: CEOE-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA2-SB26
1. COMPANY NAME Jacobs Eng.	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS

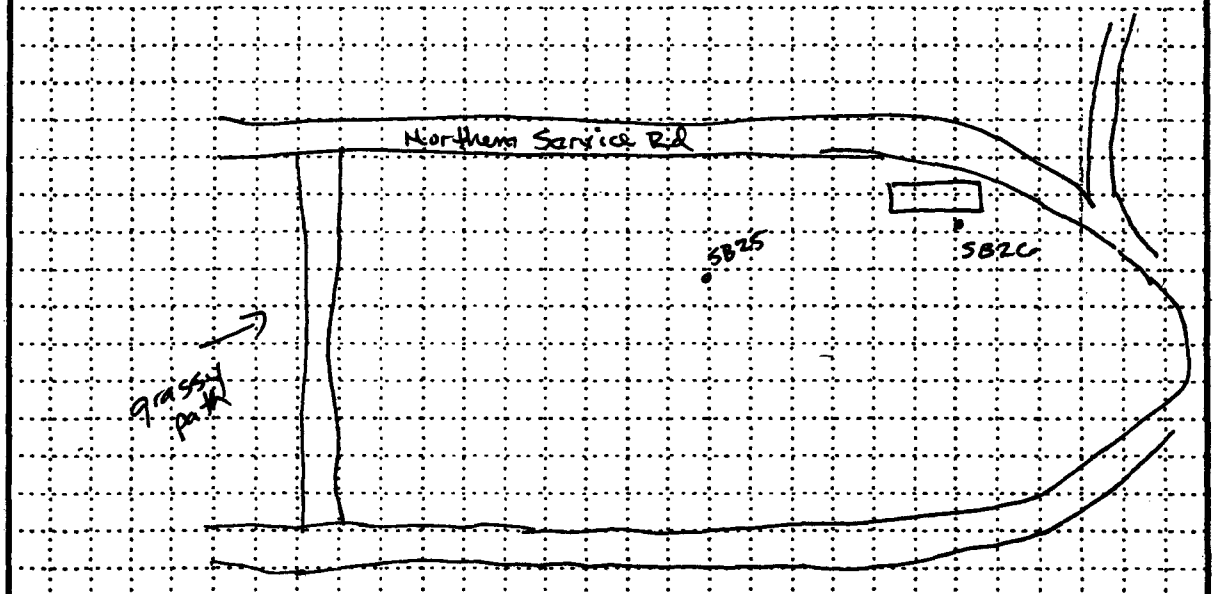
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA2-SB26
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro core 2 7/8"	8. HOLE LOCATION AA2-SB26 N-62337.9040 E-19104116.443
	9. SURFACE ELEVATION 641.28
	10. DATE STARTED 11-8-04 / 11. DATE COMPLETED 11-8-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA2-SB26

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-SB26

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE SIZE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-6", OL, organic silt, dark brown (10 YR, 3/2), soft, loose moist.			samples 0.5', 1.5'		
	1	6"-3.0', ML, sandy silt, fine grained sand, medium yellowish brown (10YR, 4/4), soft, loose, moist, wet at 2'-2.5'.					
	2						
	3	3.0-5.5, CL, silty clay, medium brown (10YR, 4/4). soft to firm, low plasticity, moist to wet.			samples 3'-5'		
	4						
	5	5.0-9.5, CL, clay medium brown (10YR, 4/4) soft to firm, medium plasticity.					
	6						
	7						
	8				samples 8'-10'		
	9						
	10	9.5-10.0 - ML, silty sandy silt. medium gray (10YR, 4/1) firm, wet. TD-10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-SB26

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AAZ-SB27
1. COMPANY NAME Jacobs Eng.	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS

3. PROJECT PBOW - Acid Areas 2+3 RI	4. LOCATION AAZ-SB27
5. NAME OF DRILLER Jeremy Lockrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro Core 2"x8'	8. HOLE LOCATION AAZ-SB27 N-623263.068 E-1908962.322
	9. SURFACE ELEVATION 643.79
	10. DATE STARTED 10-29-04 / 11. DATE COMPLETED 10-29-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 7'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

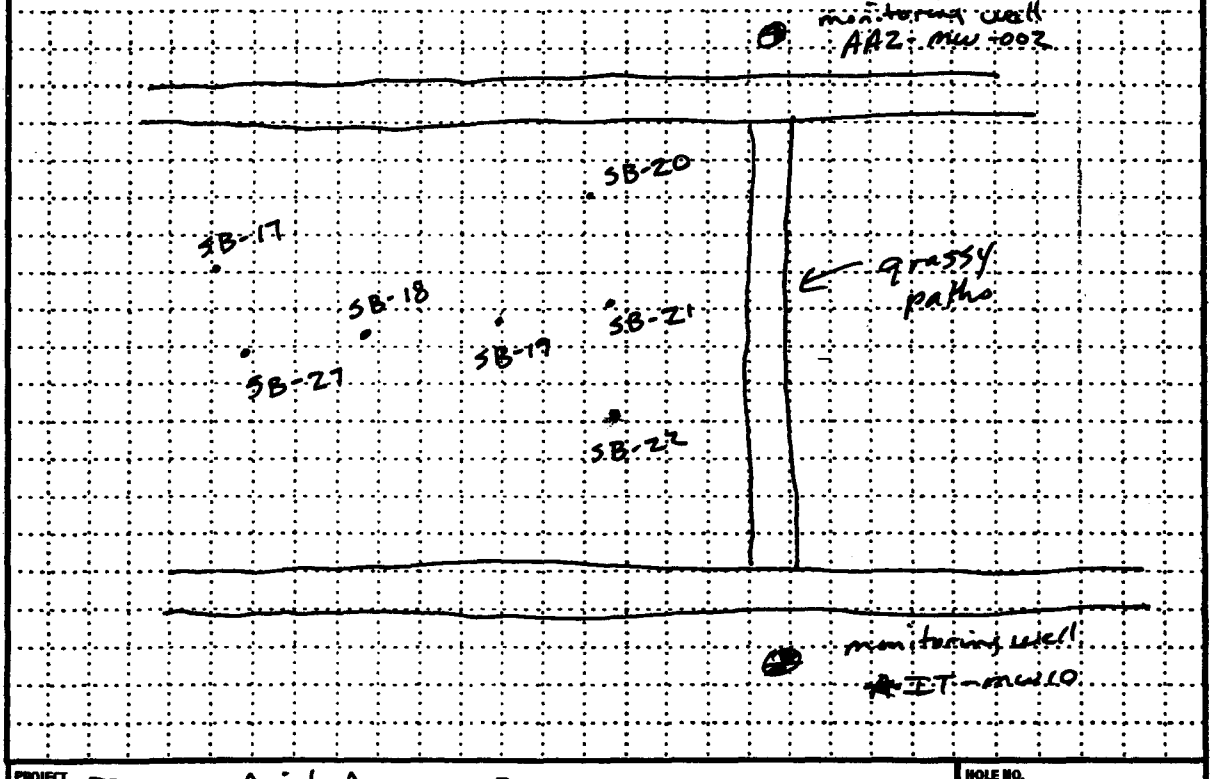
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AAZ-SB27

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB27

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE % OR RQD (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-6", OL, organic silt, dark brown (10YR, 3/2), loose, moist	0 ppm		samples 0.5'-1.5'		
	1	6"-12", ML, silt, with gravel, medium to dark brown (10YR, 4/2) ~~to~~ firm, moist to dry					
	2	1.0'-1.5', ML, silt with gravel (gravel is back fill), medium brown (10YR, 4/2), loose, moist to dry					
	3	1.5-3.0, ML, silt, medium brown (10YR, 4/4), loose to firm, moist to dry			samples 3'-5'		
	4	3.0-7.0, CL, clay with silty zones from 6.0 to 7.0, medium brown (10YR, 4/3), firm, soft from 4.5' to 5.0', moist to wet.					
	5						
	6						
	7	TD - 7.0'					
	8						
	9						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA2-SB27

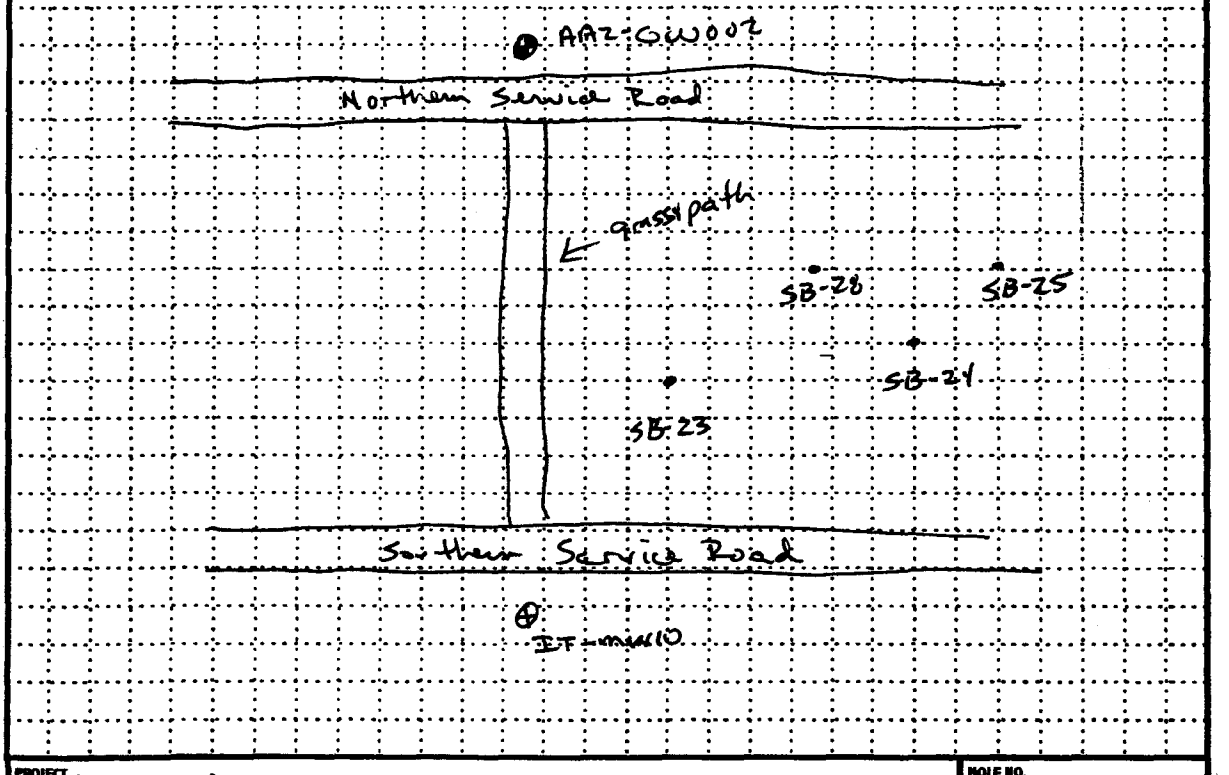
ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AAZ-SB28
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Fronte Drilling
SHEET / SHEETS	1 OF 2
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AAZ SB28
5. NAME OF DRILLER	Jeremy Leckrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro Core 2"x8"
8. HOLE LOCATION	AAZ-SB28 N-623208.093 E-1909726.678
9. SURFACE ELEVATION	639.87
10. DATE STARTED	11-1-04
11. DATE COMPLETED	11-1-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC ✓
METALS	✓
OTHER (SPECIFY)	SVOCs
OTHER (SPECIFY)	PCBs
OTHER (SPECIFY)	nitroaromatics
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	Bentonite chips
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	PBOW - Acid Areas 2+3 RI
HOLE NO.	AAZ-SB28

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-SB28

PROJECT: PBOW - Acid Areas 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (ft)	FIELD SCREENING RESULTS (ft)	DISTURB. SAMPLE OR CORE RUN NO. (ft)	ANALYTICAL SAMPLE NO. (ft)	BLOW COUNT (ft)	REMARKS (ft)
		0"-4", OL, organic silt, dark brown (10YR, 3/2), soft to firm, moist	0ppm		Samples 0.5'-1.5'		
	1	4" - 3', sandy silt and gravel backfill, ML, with some brick fragments, loose and dry ~~from~~ 1.5'-2.0', firm from 2.0'-3.0', color ranges from medium brown (10YR, 4/3) at 4"-1.5', to light gray (10YR, 7/1) at 1.5'-2.0', largest qty of gravel ~~from 1.5-2~~					
	2						
	3				Samples 3'-5'		
	4	3.0'-8.5, CL, clay, with some silty clay intervals, light brown (10YR, 5/3), soft to firm, medium plasticity moist					
	5						
	6						
	7						
	8				Samples 8'-10'		
	9	8.5'-10', CL, clay, light to medium gray (10YR 5/1) soft, medium to high plasticity, moist to wet					
	10	TD-10'					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA2-SB28

ENG FORM 5096A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

APPENDIX C

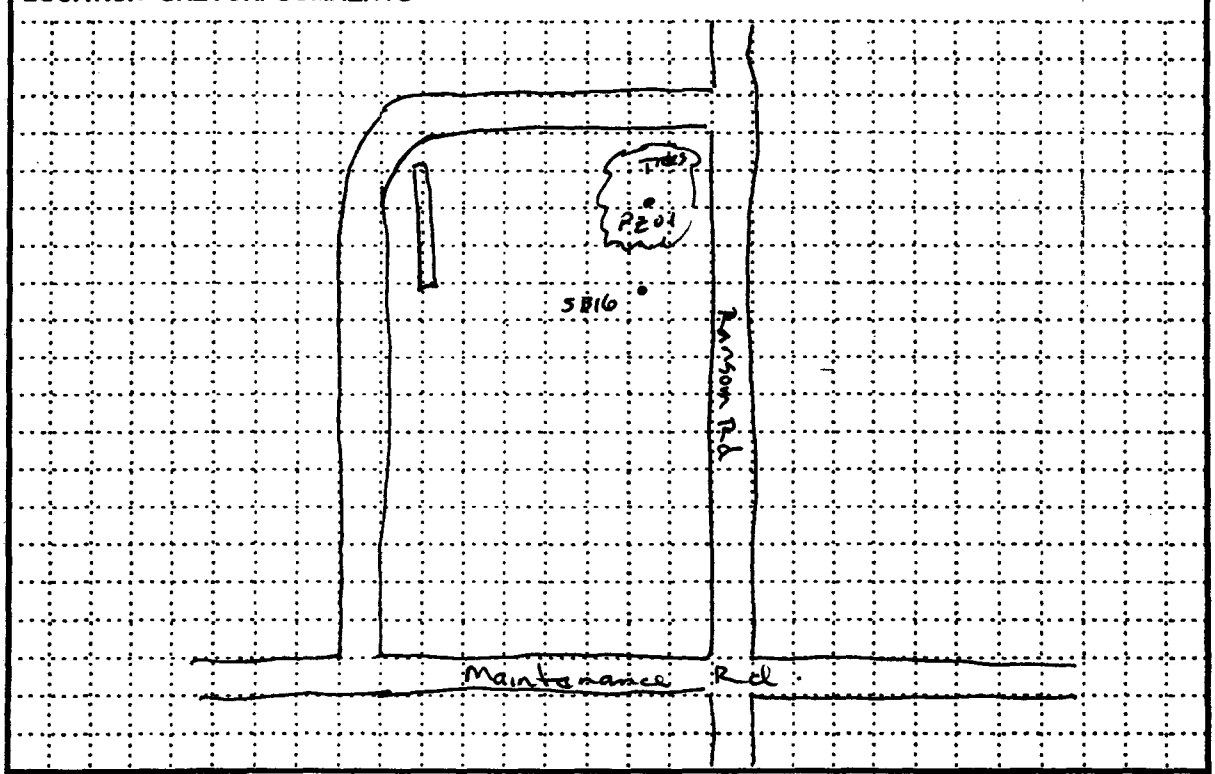
Appendix C

Soil Boring Logs – Acid Area 3

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB16
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1
3. PROJECT	PBOW-Acid Area 2+3
4. LOCATION	AA3-SB16
5. NAME OF DRILLER	Jeremy Leckrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT.	Macrocore 2 7/8"
8. HOLE LOCATION	AA3-SB16 N-625 078.678 E-1914712.882
9. SURFACE ELEVATION	636.19
10. DATE STARTED	11-5-04
11. DATE COMPLETED	11-5-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	
VOC	✓
METALS	✓
OTHER (SPECIFY)	SVOCs
OTHER (SPECIFY)	PCBs
OTHER (SPECIFY)	Ethoxaromatics
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	Bentonite chips
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Handesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	PBOW- Acid Area 2+3 RI
HOLE NO.	AA3-SB16

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB16

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SCREENED SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0'-5', OL, organic silt, dark brown (10YR, 3/2) soft to firm, loose, moist					
		5'-4.5', ML, silt, small amount of fine sand, light brown (10YR, 4/4) soft, loose, dry to moist.			samples 0.5'-1.5'		
	1						
	2						
	3				samples 3'-5'		
	4						
		4.5'-5.5', CL, silty clay medium brown (10YR, 4/4) firm, low plasticity, moist					
	5						
		5.5'-7.5, ML, clayey silt, medium brown (10YR, 4/4), soft to firm, loose in places, moist to dry					
	6						
	7						
		7.5'-10', CL, silty clay, medium brown (10YR, 5/3) changing to medium gray (10YR, 4/1) at 9.5', soft to firm, low plasticity, moist to wet			samples 9'-10'		
	8						
	9						
	10	TD-10'					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-SB16

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-SB17
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS

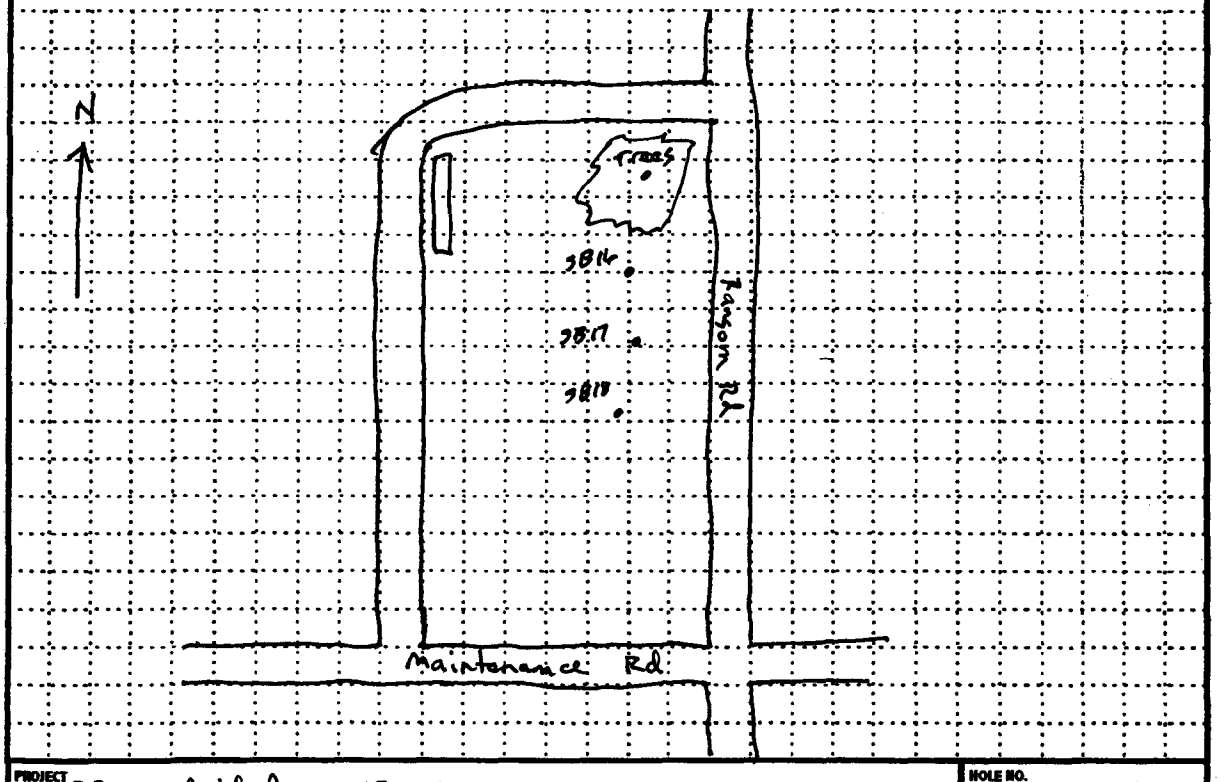
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3 - SB17
5. NAME OF DRILLER Jeremy Leckrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT macrocore 2"/8"	8. HOLE LOCATION AA3 - SB17 N - 624711.66 E - 1914720.525
	9. SURFACE ELEVATION 635.39
	10. DATE STARTED 11-9-04 / 11. DATE COMPLETED 11-9-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 6'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardisty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB17

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB17

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD BOREHOLE REMARKS (d)	SELECTED SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-9", OL, organic silt, dark brown (10YR, 3/2) soft, loose, some gravel moist.			Samples 0.5'-1.5'		
	1	9"-3.0', ML, clayey silt, medium brown (10YR, 4/4), soft to firm, low plasticity, moist					
	2						
	3	3.0'-6.0' - CL, silty clay, medium brown (10YR, 4/4), firm to stiff, low plasticity, moist.			Samples 3'-5'		
	4						
	5						
	6	TD - 6.0'					
	7						
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB17

ENG FORM 5098A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB18
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 2 SHEETS
3. PROJECT	PBOW - Acid Area 2+3
4. LOCATION	AA3 - SB18
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro core 2 1/2"
8. HOLE LOCATION	AA3-SB18 N-624560.949 E-1914783.771
9. SURFACE ELEVATION	636.17
10. DATE STARTED	11-4-04
11. DATE COMPLETED	11-4-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

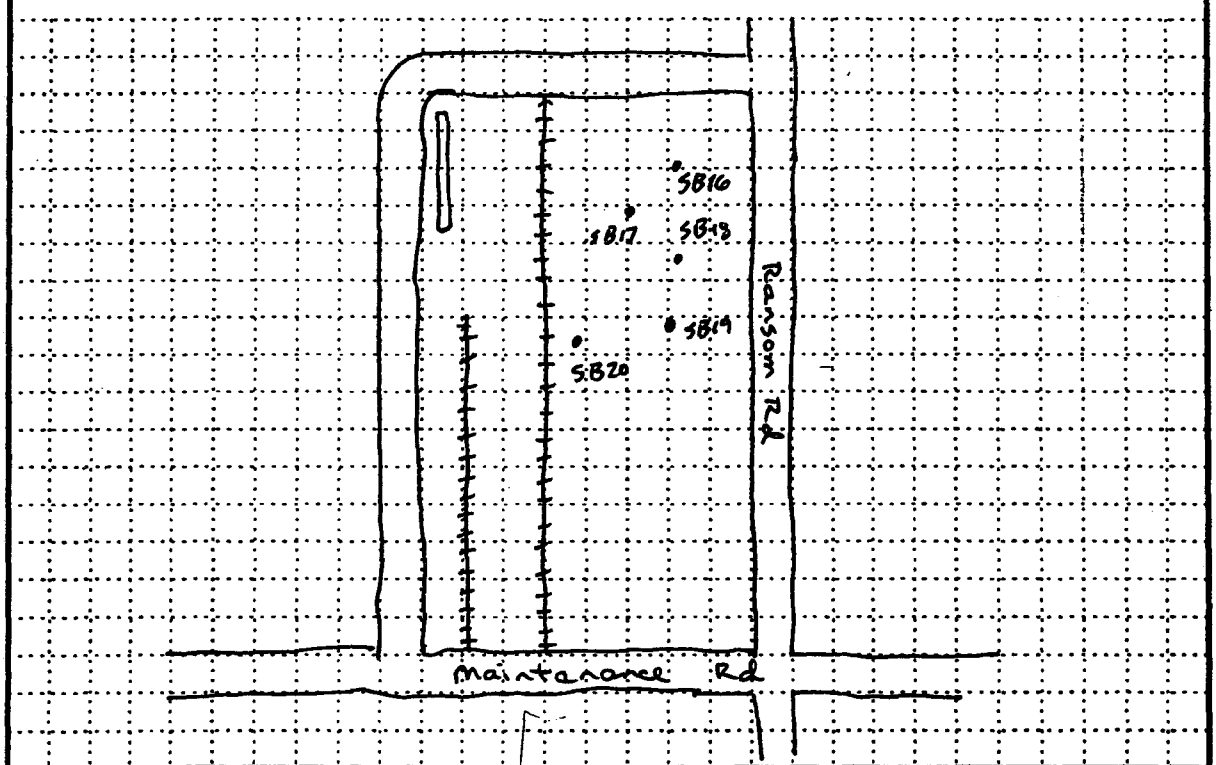
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				Al Hardesty

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3-SB18

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB18

PROJECT: PBOW- Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1	0"-6", OL organic silt, gravel layer from 4"-6", backfill, dark brown (10YR 3/3) soft, loose, moist					
	2	6"-13", ML, silt, medium brown (10YR 4/3) stiff, low plasticity, moist to dry					
	3	13"-1.5', ML/SM, sandy silt, silty sand - fine grained, light yellowish brown (10YR 5/3), soft, loose moist to dry.					
	4	1.5 - 5.5', ML, clayey silt, light brown (10YR 4/4), firm to stiff, low plasticity, moist					
	5						
	6	5.5-6.5', ML, silt, medium brown (10YR 5/3) soft to firm, wet to moist.					
	7	6.5'-10', CL, clay light brown (10YR 4/4) silty in places, soft to firm, low to med. plasticity, moist to wet					
	8						
	9						
	10	TD - 10'					

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AA3-SB18

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

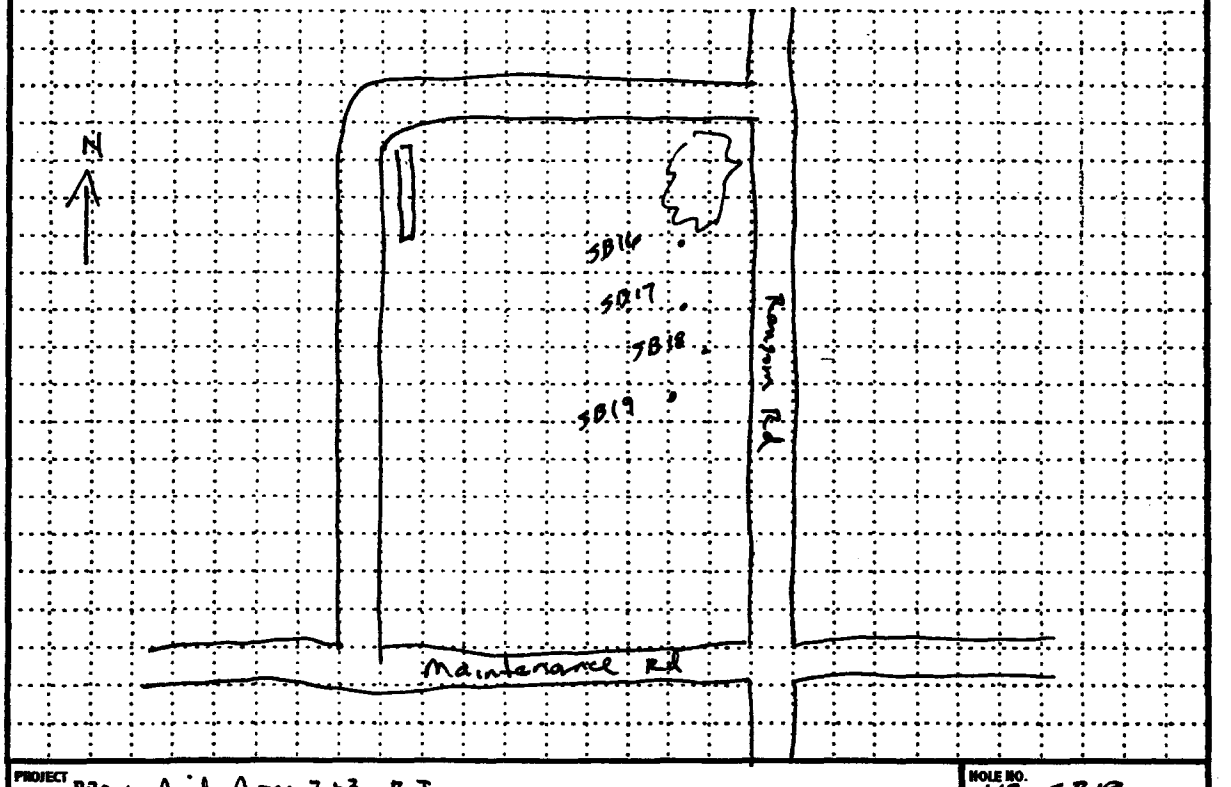
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB19
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 of 2
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA3-SB19
5. NAME OF DRILLER	Jaremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macrocore 2 1/8"
8. HOLE LOCATION	AA3-SB19 N-624426.645 E-1914755.879
9. SURFACE ELEVATION	635.83
10. DATE STARTED	11-9-04
11. DATE COMPLETED	11-9-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3-SB19

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB19

PROJECT: PBOW- Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	BORING SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-6" OL organic silt, dark brown (10YR, 3/2), soft, loose, moist.			Samples 0.5'-1.5'		
	1	6"-5.75', ML silt, soft loose, medium brown (10YR, 4/3), moist to dry. firm from 4.75' to 5.75', with clay.					
	2						
	3				Samples 3'-5'		
	4						
	5						
	6	5.75'-10' CL, silty clay, medium brown (10YR, 4/4), firm, low plasticity, moist. wet from 8.5-9.5', color change to medium gray (10YR, 4/1) at 9.0'.					
	7						
	8				Sample 8'-10'		
	9						
		TD-10'					
	10						

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AA3-SB19

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

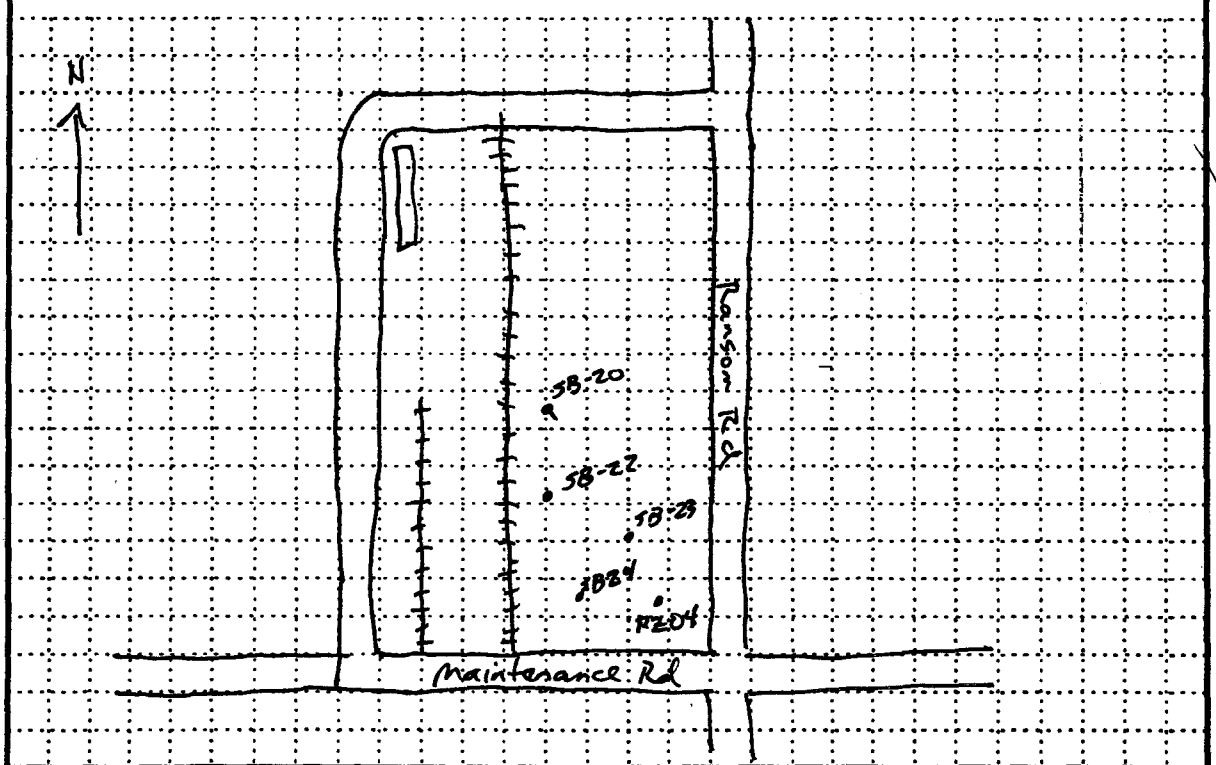
HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-SB20
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3 - SB-20	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2 1/8"	8. HOLE LOCATION AA3-SB20 N-624376.32 E-1914629.444	
	9. SURFACE ELEVATION 636.56	
	10. DATE STARTED	11. DATE COMPLETED
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE ~~10'~~ AFH 65'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	RBS	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area RT3 RI	HOLE NO. AA3-SB20

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB20

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-5", OL, organic silt, dark brown (10YR, 3/2) soft to firm, loose, moist					
	1	5"-3.25', ML, silt, light brown (10YR, 4/3) stiff, low plasticity, dry to moist.					
	2						
	3						
		3.25'-6.0', ML, clayey silt, medium brown (10YR, 4/4), firm, low plasticity, moist.					
	4						
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3

HOLE NO. AA3 - SB20

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

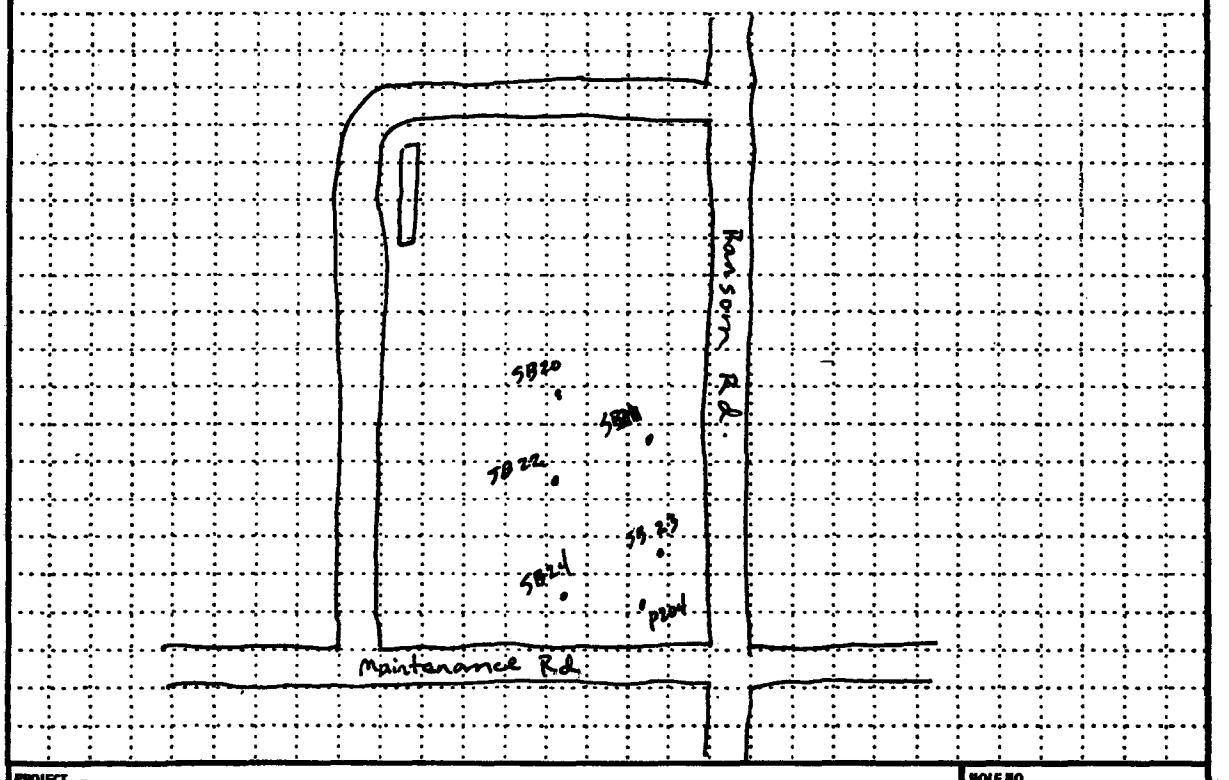
HTRW DRILLING LOG	DISTRICT USACE-Nashville	HOLE NUMBER AA3-SB21
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Areas 2+3 RI	4. LOCATION AA3-SB21	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2" x 8'	8. HOLE LOCATION AA3-SB21 N-624240.668 E-1914775.245	
	9. SURFACE ELEVATION 635.97	
	10. DATE STARTED 11-9-04	11. DATE COMPLETED 11-9-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Handloty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB21

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB21

PROJECT: PBOW-Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-7", OL, organic silt, dark brown (10YR/3/2), soft, loose, moist.			samples 0.5'-1.5		
	1						
		7"-2.25', ML, silt, medium brown (10YR, 4/3) soft, loose, moist.					
	2						
		2.25'-2.5', ML, clayey silt, dark brown to black (10YR, 3/1), firm, low plasticity, moist.					
	3				samples 3'-5'		
		2.5'-8.5, CL, silty clay, medium brown (10YR, 4/4), firm, low plasticity, moist					
	4						
	5						
	6						
	7						
	8				samples 8'-10		
		8.5-10.0', CL, clay, medium brown (10YR/4/4) soft, medium plasticity, moist to wet.					
	9						
	10	TD - 10.0'					

PROJECT: PBOW-Acid Area 2+3 RI

HOLE NO. AA3-SB21

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

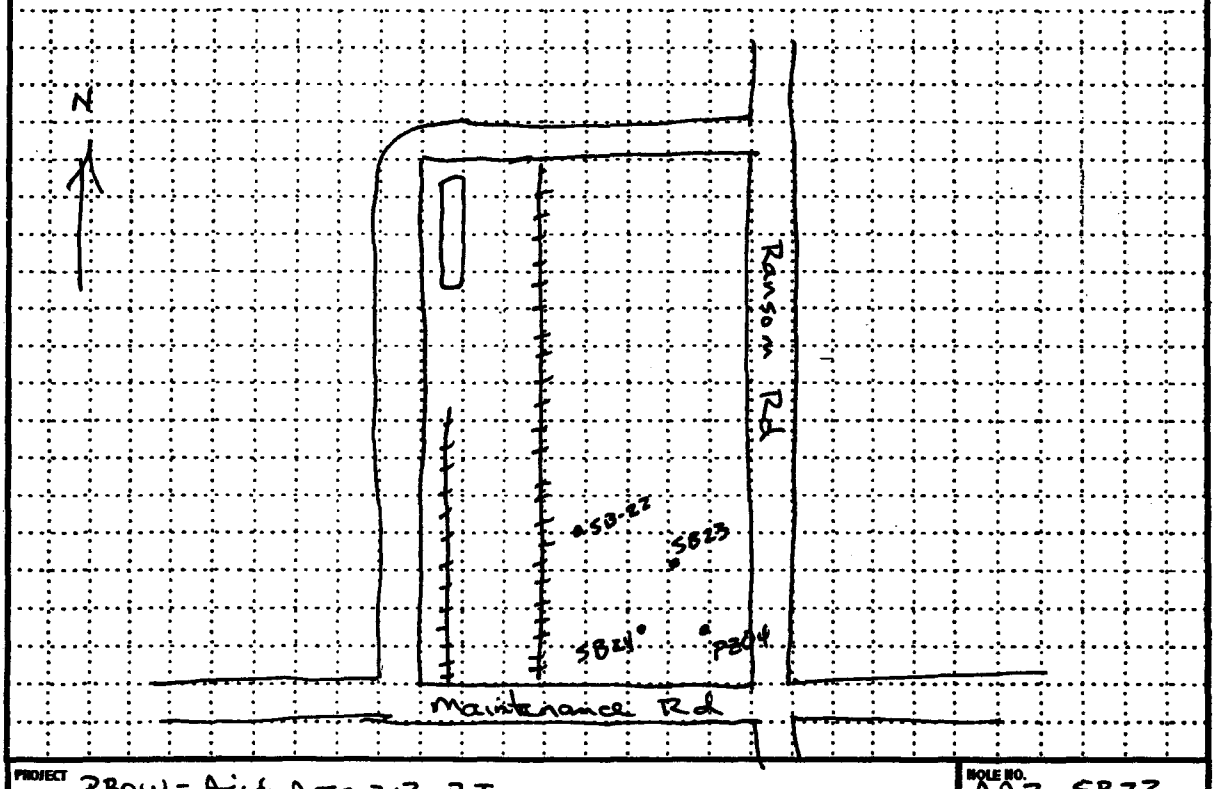
HTRW DRILLING LOG	DISTRICT USACE	HOLE NUMBER AA3-SB22
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Areas 2+3 RI	4. LOCATION AA3 - SB22	
5. NAME OF DRILLER Jeremy Leckrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro core 2"ø"	8. HOLE LOCATION AA3 - SB22 N - 624169.306 E - 1914660.044	
	9. SURFACE ELEVATION 635.66	
	10. DATE STARTED 11-4-04	11. DATE COMPLETED 11-4-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE AFH ~~10.5'~~ 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB22

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB22

PROJECT: PBOW - Acid Area 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (c)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SECTION SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-14", OL, organic silt, dark brown (10YR, 3/2), soft, loose, moist.					
	1						
		14"-3', ML, silt, medium brown (10YR, 5/3), stiff, clayey in spots, moist low plasticity.					
	2						
	3	3'-6.75', CL, silty clay, medium brown (10YR, 4/4) soft to firm, low plasticity moist to wet,					
	4						
	5						
	6						
	7	6.75'-10', CL, clay medium brown (10YR, 4/4) changing to medium gray (10YR, 4/1) at 7.25', soft, medium plasticity, moist to wet.					
	8						
	9						
		TD-10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB22

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

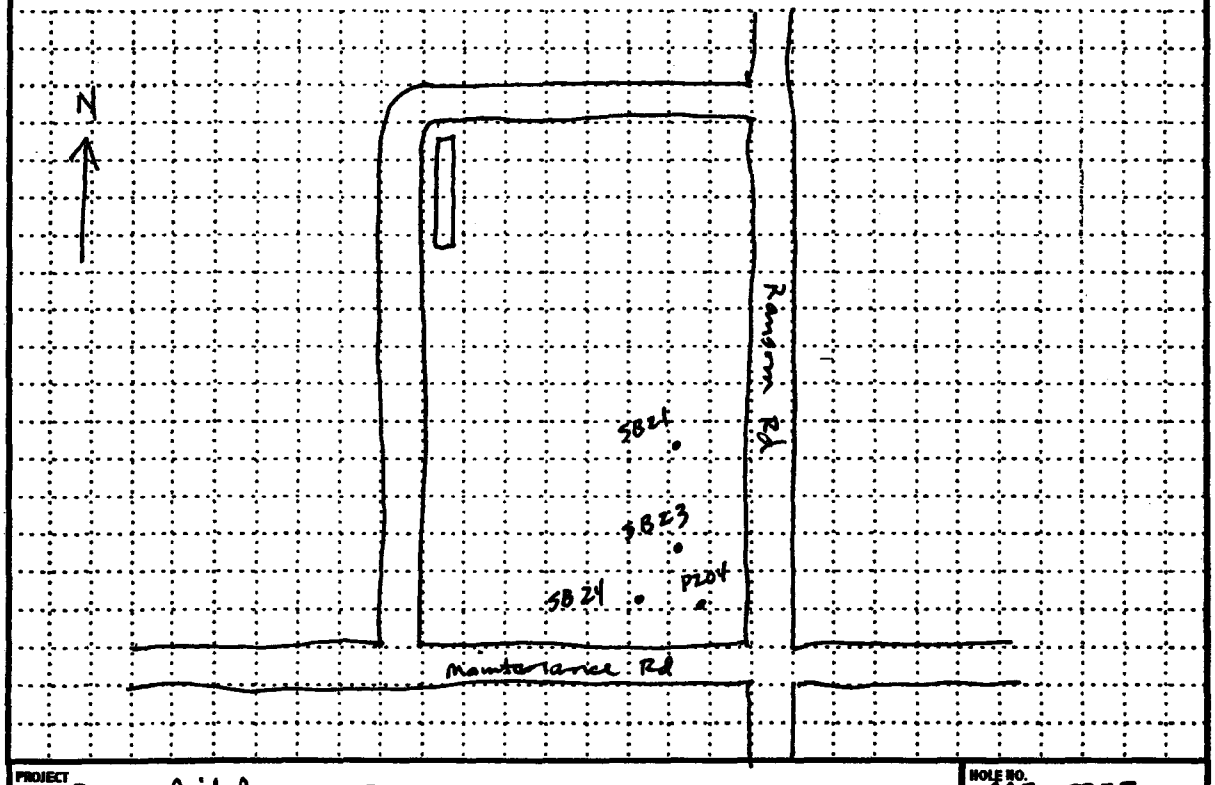
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB23
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 2 SHEETS
3. PROJECT	PBOW - Acid Area 2+3
4. LOCATION	AA3 - SB23
5. NAME OF DRILLER	Jeremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macrocore 2 1/8"
8. HOLE LOCATION	AA3-SB23 N-624050.736 E-1914736.762
9. SURFACE ELEVATION	636.12
10. DATE STARTED	11-9-04
11. DATE COMPLETED	11-9-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	10'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3-SB23

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB23

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (c)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	REPRESENTATIVE SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1	0"-9", OL, organic silt, dark brown (10YR, 3/2) soft, loose with gravel and brick particles from 6"-9", moist.			Samples 0.5', 1.5'		
	2	9"-15", ML, silt, medium brown (10YR, 5/4) soft, loose, dry					
		15"-19", OL, organic silt, dark brown (10YR 3/2), firm, loose, moist.					
	3	19"-3.0, ML, clayey silt, medium brown (10YR, 4/3), firm, low plasticity, moist			Sample 3'-5		
	4	3.0'-3.75', ML, silt with some fine sand, medium brown (10YR, 4/3) soft to firm, loose, moist.					
	5	3.75'-10', CL, silty clay, soft to firm, medium brown (10YR, 4/3) med to low plasticity, moist to wet. wet at 7.0-7.5, with higher silt content.			Sample ~~8'-10'~~		
	6						
	7	color change at 8.5' - medium gray (10YR, 4/1)					
	8				Samples 8'-10'		
	9						
	10	TD-10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB23

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

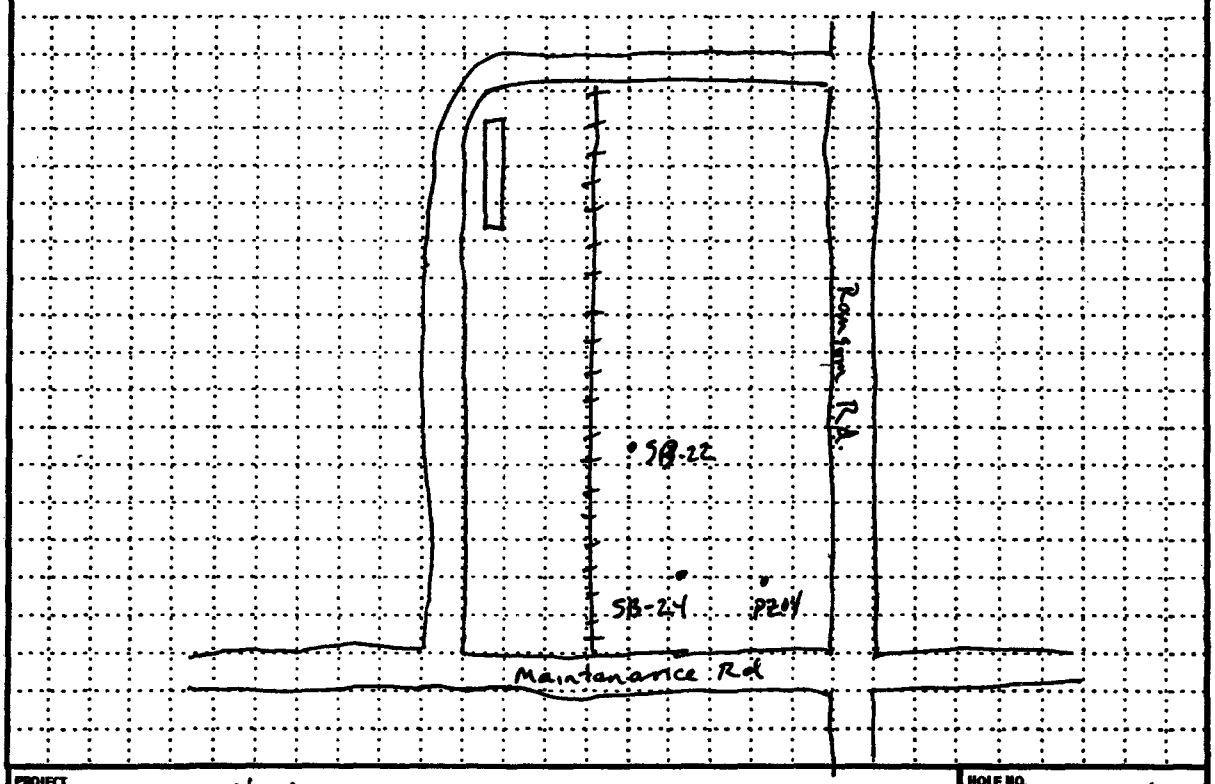
HTRW DRILLING LOG	DISTRICT US ACE - Nashville	HOLE NUMBER AA3-SB24
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3-SB24	
5. NAME OF DRILLER Jeremy Leckrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2 7/8"	8. HOLE LOCATION AA3-SB24 N-623942.144 E-1914697.511	
	9. SURFACE ELEVATION 635.60	
	10. DATE STARTED 11-5-04	11. DATE COMPLETED 11-5-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	Nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB24

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB24

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (4)	DEPTH (5)	DESCRIPTION OF MATERIALS (6)	FIELD SCREENING RESULTS (7)	REPRESENTATIVE SAMPLE OR CORE RUN NO. (8)	ANALYTICAL SAMPLE NO. (9)	BLOW COUNT (10)	REMARKS (11)
		0"-4", OL, organic silt, dark brown (10YR 3/2), soft, loose, moist.					
	1	4"-1.25', ML, silt, medium brown (10YR 5/3) soft, loose, moist to dry			samples 0.5'-1.5'		
	2	1.25'-1.5', CL, silty clay, medium to dark brown (10YR, 4/2) firm to stiff, low plasticity, moist					
	3	1.5'-4.5, ML, clayey silt, medium brown (10Y, 4/4), firm, low plasticity, moist.			samples 3'-5'		
	4						
	5	4.5'-5.0, CL, silty clay, medium brown (10YR 4/4), firm to soft low plasticity, moist					
	6	5.0-10.0', ML, silt and clayey silt, medium brown (10YR, 4/4) changing to medium gray (10YR, 4/1) at 9.25', soft, low plasticity, wet.					
	7						
	8				samples 8'-10'		
	9						
	10	TD-10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB24

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

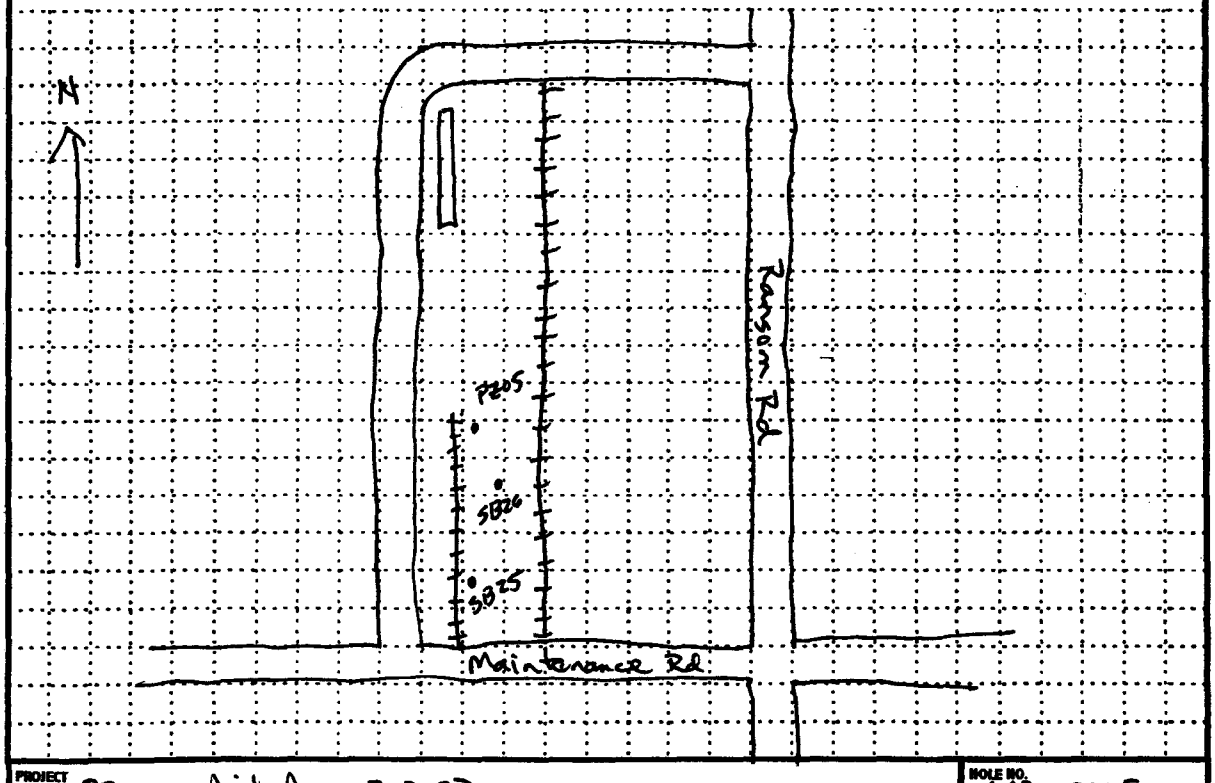
HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-SB25
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3-SB25	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2"x3'	8. HOLE LOCATION AA3-SB25 N-624037.016 E-1914493.45	
	9. SURFACE ELEVATION 636.38	
	10. DATE STARTED 11-5-04	11. DATE COMPLETED 11-5-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB25

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB25

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SELECTED SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-3", OL, organic silt, dark brown (10YR, 3/2) soft, loose, moist			samples 0.5'-1.5'		
	1	3"-3.25', ML, silt, medium brown (10YR 5/3) firm, loose, moist.					
	2						
	3				samples 3'-5'		
		3.25'-8.0', ML, clayey silt, medium brown (10YR, 4/4), firm to soft, low plasticity, moist, wet at 4.5'					
	4						
	5						
	6						
	7						
	8	8.0'-10', CL, silty clay, medium gray (10YR, 4/1) soft to firm, low plasticity, wet.			samples 8'-10'		
	9						
	10	TD - 10'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB25

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

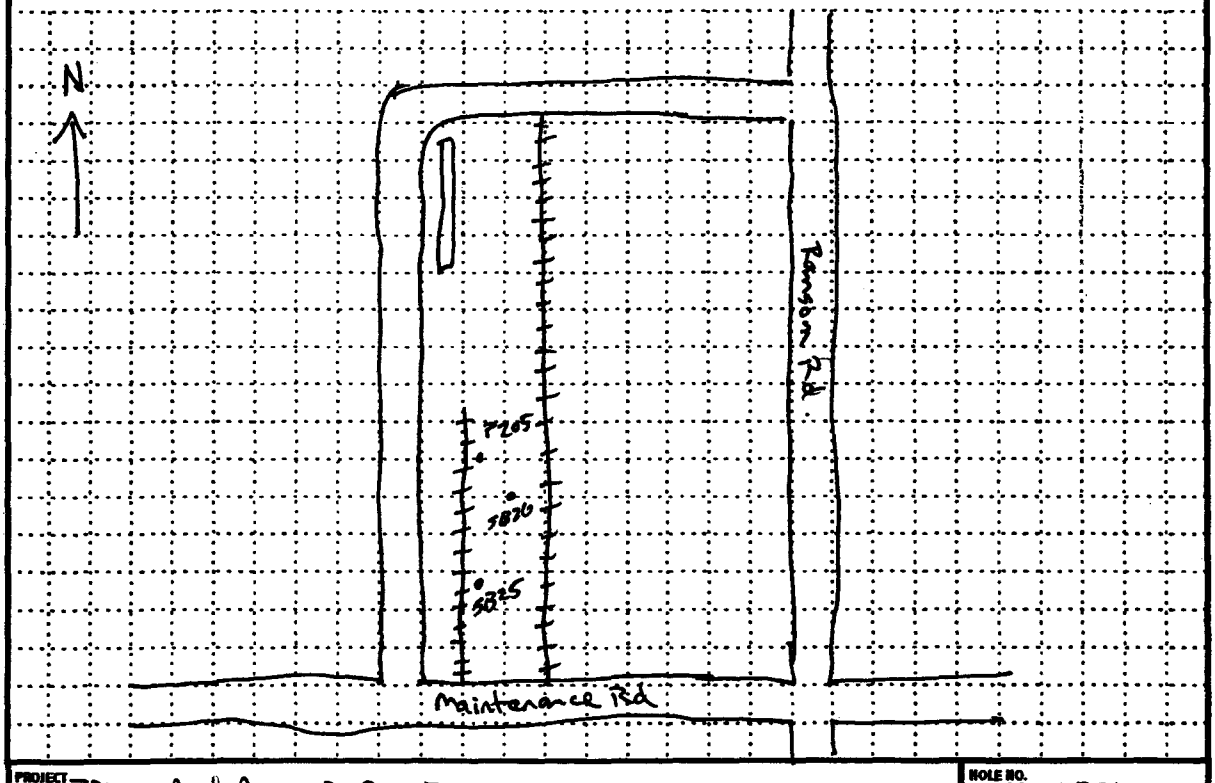
Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3 - SB26
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 2 SHEETS
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA3 - SB26
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro core 2"/8'
8. HOLE LOCATION	AA3 - SB26 N - 624185.385 E - 1914525.795
9. SURFACE ELEVATION	636.06
10. DATE STARTED	11-8-04
11. DATE COMPLETED	11-8-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	6.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	
VOC	✓
METALS	✓
OTHER (SPECIFY)	SVOCs
OTHER (SPECIFY)	PCBs
OTHER (SPECIFY)	inorganic nutrients
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	bentonite chips
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	PBOW - Acid Areas 2+3 RI
HOLE NO.	AA3-SB26

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB26

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (4)	FIELD SCREENING RESULTS (4)	SELECTED SAMPLE OR CORE RUN NO. (4)	ANALYTICAL SAMPLE NO. (4)	BLOW COUNT (ft)	REMARKS (4)
		0"-8", OL, organic silt, dark brown (10YR, 3/2), soft to firm, loose, moist					
					samples 0.5'-1.5'		
	1	8"-3.5', ML, silt, slight amount of clay, medium brown (10YR, 4/3), soft to firm, very loose in places, moist to dry					
	2						
	3				samples 3'-5'		
	4	3.5'-4.5', ML, clayey silt, medium brown (10YR, 4/3), firm to soft, low plasticity, moist to wet.					
	5	4.5'-6.5', CL, clay medium brown (10YR, 4/3), soft to firm, medium to low plasticity (silty at 6.4'-6.5') wet.					
	6						
	7	TD - 6.5'					
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB26

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

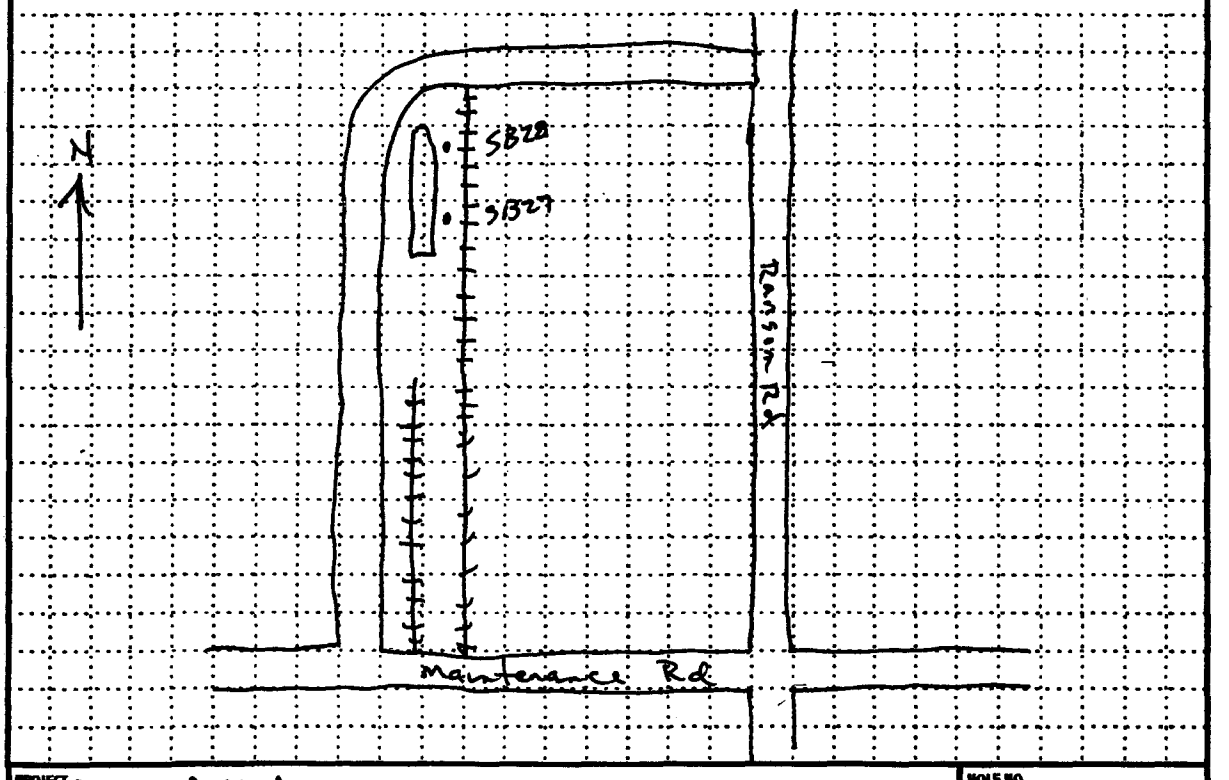
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB27
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Fritz Drilling
SHEET	1 OF 2 SHEETS
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA3-SB27
5. NAME OF DRILLER	Jeremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	
8. HOLE LOCATION	AA3-SB27 N-625028.3748 E-1914494.4727
9. SURFACE ELEVATION	636.35
10. DATE STARTED	11-8-07
11. DATE COMPLETED	11-8-07
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	6.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	Nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3-SB27

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB27

PROJECT: PBOW- Acid Area 2+3

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-2", OL, organic silt, dark brown (10YR, 4/2) soft, loose, dry.					
					samples 0.5'-1.5'		
	1	2"-8", sand and gravel backfill					
		8"-3.25', ML, silt, medium brown (10YR, 4/3) firm, low plasticity, moist.					
	2						
	3				samples 3'-5'		
		3.25'-3.5', OL, organic silt, dark brown (10YR, 2/2), firm, low plasticity, moist.					
	4						
		3.5'-6.5', CL, silty clay (light brown) (10YR, 4/3), firm to 5.5', soft from 5.5' to 6.5', low to medium plasticity, moist to wet.					
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB27

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

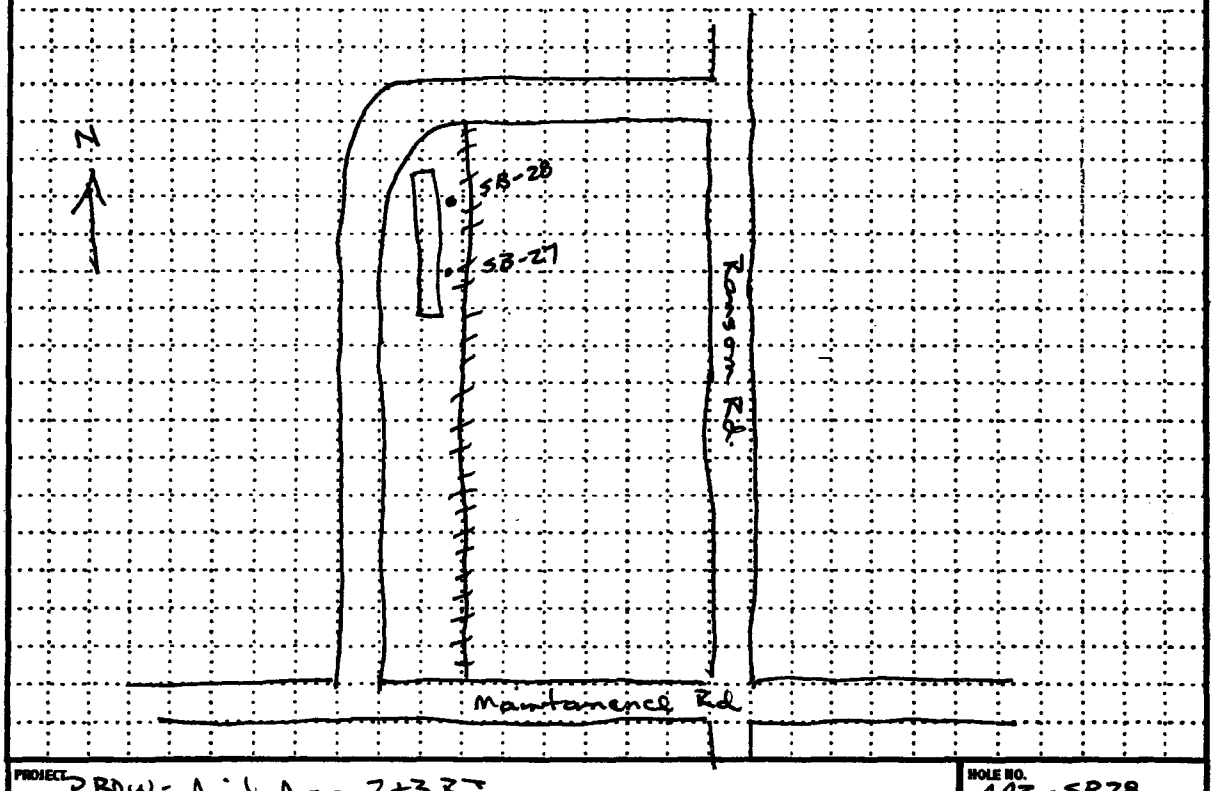
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-SB28
1. COMPANY NAME	Jacobs Engineering
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 2
3. PROJECT	PBOW - Acid Areas 2+3 RI
4. LOCATION	AA3 - SB28
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	macrocore 2 1/2"
8. HOLE LOCATION	AA3 - SB28 N-625327.3714 E-1914485.7099
9. SURFACE ELEVATION	636.34
10. DATE STARTED	11-8-04
11. DATE COMPLETED	11-8-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	6 1/2'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	Arroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3-SB28

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB28

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-11", OL, organic silt, with sand and gravel backfill, dark brown (10YR, 3/2), soft, loose, moist			sample 0.5'-1.5'		
	1						
		11"-3.25', ML, silt, slight amount of clay, medium brown (10YR, 4/4), soft, loose, moist to dry.					
	2						
	3						
		3.25'-5.0', ML, clayey silt, medium brown (10YR, 4/4), firm to stiff, low plasticity, moist.			sample 3'-5		
	4						
	5	5.0'-6.5', CL, silty clay, medium brown (10YR, 4/4), soft to firm, low plasticity, moist to wet					
	6						
	7	TD - 6.0'					
	8						
	9						
	10						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-SB28

ENG FORM 5058A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-SB29
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 2 SHEETS

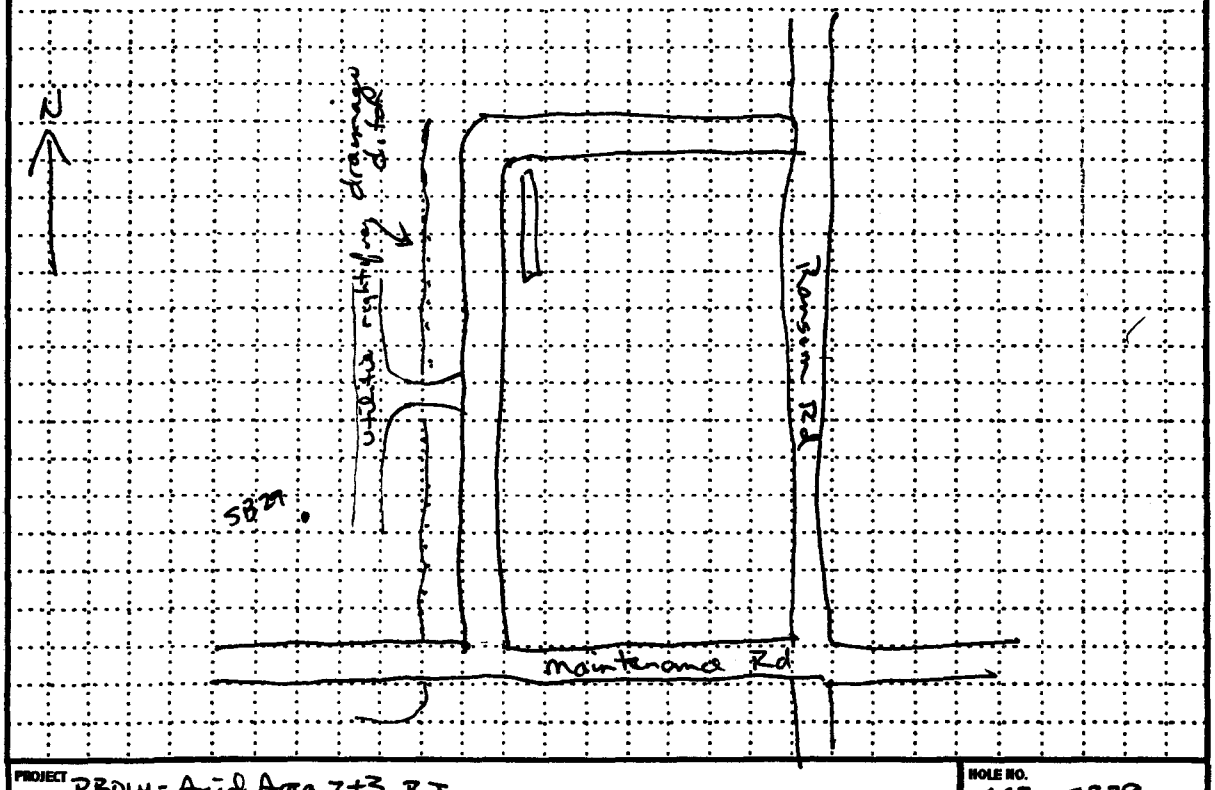
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3 - SB29
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8. HOLE LOCATION AA3 - SB29 N - 624269.358 E - 1914186.033
	9. SURFACE ELEVATION 635.35
	10. DATE STARTED 11-8-04 / 11. DATE COMPLETED 11-8-04
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 65'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SVOCs	PCBs	nitroaromatics	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
bentonite chips				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3-SB29

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-SB29

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GROUNDWATER SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-3" OL, organic silt, dark brown (10YR, 4/2) silt, moist					
	1	3'-3.25', ML, silt, medium brown (10YR, 4/3) soft to firm, low plasticity, moist			samples 0.5'-1.5'		
	2						
	3				samples 3'-5'		
		3.25'-5.25', ML, clayey silt, medium brown (10YR, 4/3), firm, low plasticity, moist					
	4						
	5						
		5.25'-6.5', CL, silty clay, soft, light to medium brown (10YR, 5/3) changing to medium gray (10YR, 4/1) at 5.9'.					
	6						
	7	TD - 6.5'					
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-SB29

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

APPENDIX D

Appendix D
Land Survey Documentation

NASA ACID AREA #2 - JACOBS ENGINEERING

11/15/2004
145504
ABE

NORTHING (feet)	EASTING (feet)	ELEVATION (ft amsl)	DESCRIPTION
623767.2010	1914904.1250	636.11	RANSOM & MAINTENANCE MON 5/8" PIN, BENCHMARK
623079.2970	1908141.6080	644.35	PATROL RD. @ GATE 10 MON 5/8" PIN
623897.0300	1908144.2050	642.61	PATROL RD. CORNER 1/2" IRON ROD
623337.9090	1910416.4430	641.28	SB-26
623047.1420	1910004.0190	640.92	PZ-05 (TOP OF PIPE ELEV. = 642.04)
623218.7630	1909850.0300	640.82	SB-25
623160.4170	1909780.8920	640.36	SB-24
623208.0730	1909726.6780	639.87	SB-28
623167.5220	1909583.0330	639.6	SB-23
623205.1700	1909379.1430	641.58	SB-22
623271.4300	1909308.3440	641.72	SB-19
623308.7770	1909370.6390	641.49	SB-21
623390.0450	1909336.7770	642.9	SB-20
623238.2360	1909110.3190	643.64	PZ-03 (TOP OF PIPE ELEV. = 646.15)
623248.2040	1909054.8310	643.62	SB-18
623263.0680	1908962.3220	643.79	SB-27
623284.9370	1908897.3000	643.6	SB-17
623455.4820	1908915.1350	643.03	SB-16
623083.1860	1908757.3900	643.55	PZ-02 (TOP OF PIPE ELEV. = 645.61)
623550.8260	1908693.2540	642.73	PZ-01 (TOP OF PIPE ELEV. = 644.43)
623474.4827	1910053.3862	640.54	PZ-04 (TOP OF PIPE ELEV. = 643.06)
622994.1441	1909460.7467	635.95	SWSD-02
622948.8521	1910305.4439	633.47	SWSD-03
623015.8281	1908608.6137	640.71	SWSD-01

Level circuit: Elevation at point #97 ("O" in Open - 1st hydrant Ransom North Fox) of 642.46 was checked with point #94 (RRS - 3rd pole Ransom North Fox) of 641.94, these two points were used to establish elevation at the site. Site benchmark is the top of an iron pin in a monument box located at the intersection of Maintenance & Ransom Roads, as shown on attached Acid Area #3 drawing. Elevation = 636.11

File: JHA6/dwg/145504/1455-AA2-3/docs/coordinates

NAD_1983_StatePlane_Ohio_North_FIPS_3401_Feet
Projection: Lambert_Conformal_Conic
False_Easting: 1968500.000000
False_Northing: 0.000000
Central_Meridian: -82.500000
Standard_Parallel_1: 40.433333
Standard_Parallel_2: 41.700000
Latitude_Of_Origin: 39.666667

GCS_North_American_1983

NASA ACID AREA #3 - JACOBS ENGINEERING

11/15/2004
145504
ABE

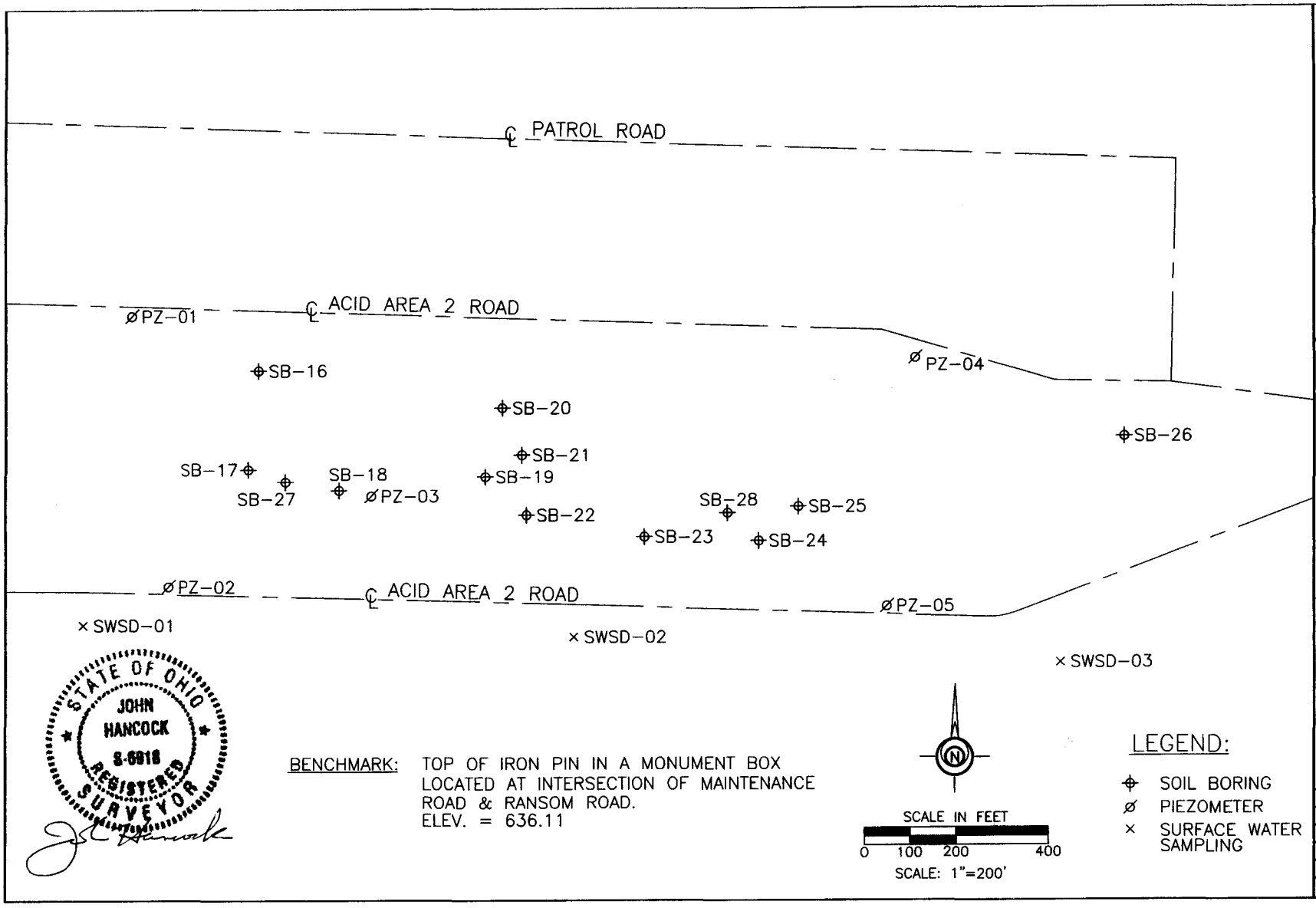
NORTHING (feet)	EASTING (feet)	ELEVATION (ft amsl)	DESCRIPTION
623767.2010	1914904.1250	636.11	RANSOM & MAINTENANCE MON 5/8" PIN, BENCHMARK
623734.5780	1916064.4070	635.28	MAINTENANCE, 1ST E OF RANSOM MON 5/8"
621619.4600	1914969.7980	642.38	RANSOM & FOX MON 5/8" PIN
623753.1550	1913467.2920	641.05	MAINTENANCE & RR TRACK RR SPIKE
623953.7300	1914745.3010	635.84	PZ-04 (TOP OF PIPE ELEV. = 638.71)
623942.1440	1914697.5110	635.60	SB-24
624050.7360	1914736.7620	636.12	SB-23
624167.3060	1914660.0440	635.66	SB-22
624185.3850	1914525.7950	636.06	SB-26
624220.0530	1914500.4910	636.17	PZ-05 (TOP OF PIPE ELEV. = 638.37)
624037.0160	1914493.4500	636.38	SB-25
624240.6680	1914775.2450	635.97	SB-21
624426.6450	1914755.8790	635.83	SB-19
624376.3200	1914629.4440	636.56	SB-20
624457.1860	1914945.4870	636.43	PZ-03 (TOP OF PIPE ELEV. = 639.19)
624560.9490	1914783.7710	636.17	SB-18
624711.6600	1914720.5250	635.39	SB-17
625078.6780	1914712.8820	636.19	SB-16
624900.0500	1914447.6330	637.02	PZ-02 (TOP OF PIPE ELEV. = 638.62)
624269.3580	1914186.0330	635.35	SB-29
624435.7370	1914371.6770	628.47	SWSD-02
623846.4087	1914390.2624	628.00	SWSD-03
625625.1455	1914330.1191	629.96	SWSD-01
625327.3714	1914485.7099	636.34	SB-28
625028.3748	1914494.4727	636.35	SB-27
625292.4727	1914712.8041	632.65	PZ-01 (TOP OF PIPE ELEV. = 634.84)

Level circuit: Elevation at point #97 ("O" in Open - 1st hydrant Ransom North Fox) of 642.46 was checked with point #94 (RRS - 3rd pole Ransom North Fox) of 641.94, these two points were used to establish elevation at the site. Site benchmark is the top of an iron pin in a monument box located at the intersection of Maintenance & Ransom Roads, as shown on attached Acid Area #3 drawing. Elevation = 636.11

File: JHA6/dwg/145504/1455-AA2-3/docs/coordinates

NAD_1983_StatePlane_Ohio_North_FIPS_3401_Feet
Projection: Lambert_Conformal_Conic
False_Easting: 1968500.000000
False_Northing: 0.000000
Central_Meridian: -82.500000
Standard_Parallel_1: 40.433333
Standard_Parallel_2: 41.700000
Latitude_Of_Origin: 39.666667

GCS_North_American_1983

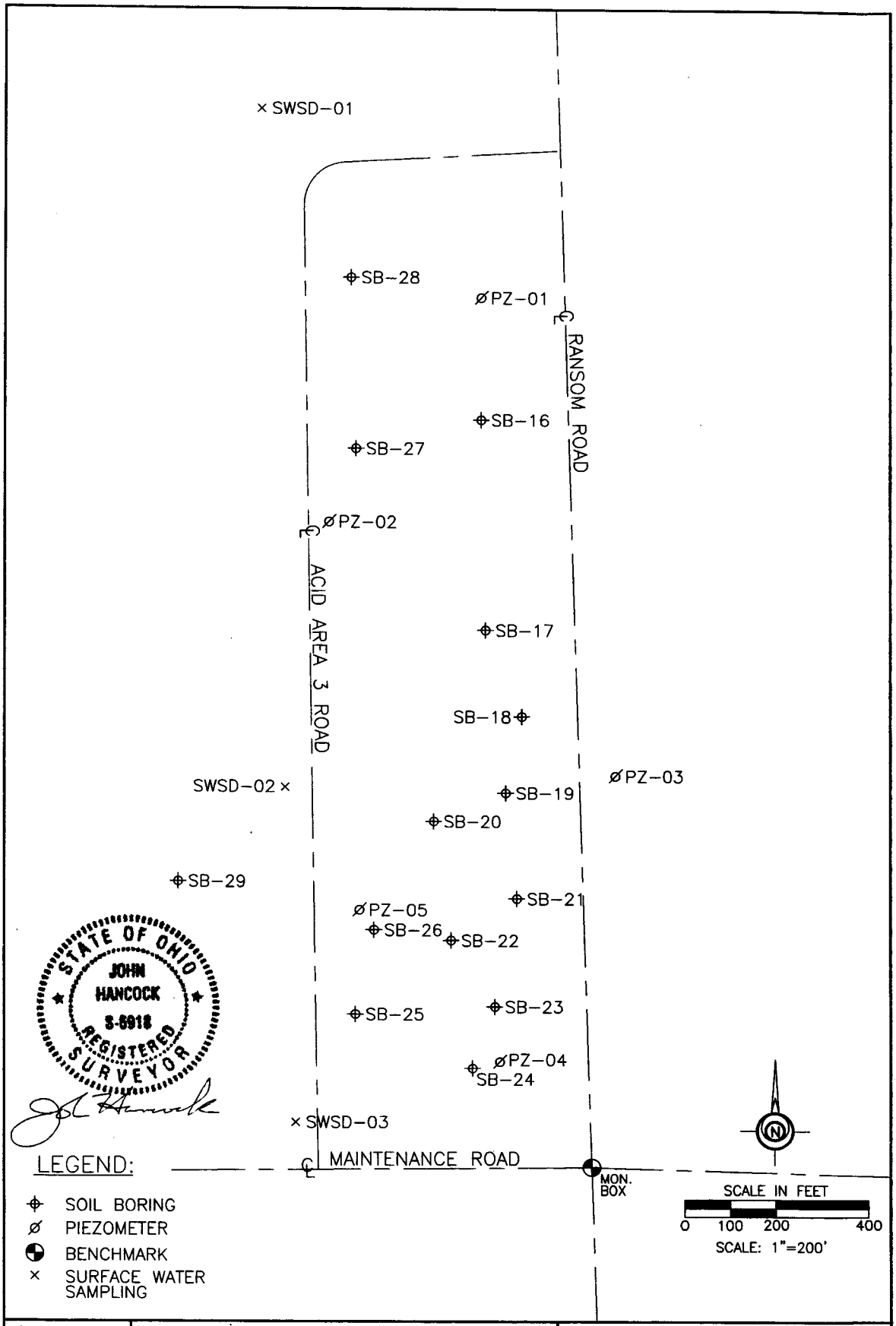


John Hancock & Associates
INCORPORATED
ENGINEERS - SURVEYORS
326 E. MARKET ST. SANDUSKY, OHIO 44870
(419) 625-7838

ACID AREA #2

JACOBS ENGINEERING
NASA PLUM BROOK STATION
PERKINS TOWNSHIP, ERIE COUNTY, OHIO

JOB NO.:	145504
DRN BY:	ABE
FILE NO.:	1455-AA2-3
DATE:	11/15/04
SCALE:	1"=200'
SHEET NO.:	1



JOB NO.:	145504
DRN BY:	ABE
FILE NO.:	1455-AA2-3
DATE:	11/15/04
SCALE:	1"=200'
SHEET NO.:	2

ACID AREA #3

JACOBS ENGINEERING
NASA PLUM BROOK STATION
PERKINS TOWNSHIP, ERIE COUNTY, OHIO

John Hancock & Associates
INCORPORATED
ENGINEERS - SURVEYORS
326 E. MARKET ST. SANDUSKY, OHIO 44870
(419) 625-7838

NASA MONITORING WELLS - JACOBS ENGINEERING
ACID AREA #3

12/20/2004
145504
ABE

NORTHING (feet)	EASTING (feet)	GROUND ELEVATION (ft amsl)	TOP OF PIPE ELEVATION (ft amsl)	DESCRIPTION
623677.6863	1915004.5541	635.86	637.85	AA3-GW-003
624497.9775	1914651.8770	635.97	638.26	AA3-GW-004
624341.3158	1914463.4575	636.24	638.31	AA3-GW-005
623679.9571	1915019.2792	635.91	638.30	AA3-BEDGW-002
624512.9214	1914651.5070	635.92	638.55	AA3-BEDGW-003
625570.6943	1914523.5676	636.21	637.53	AA3-BEDGW-004

File: JHA6/dwg/145504/1455-AA2-3/docs/wells

NAD_1983_StatePlane_Ohio_North_FIPS_3401_Feet
Projection: Lambert_Conformal_Conic
False_Easting: 1968500.000000
False_Northing: 0.000000
Central_Meridian: -82.500000
Standard_Parallel_1: 40.433333
Standard_Parallel_2: 41.700000
Latitude_Of_Origin: 39.666667

GCS_North_American_1983

APPENDIX E

Appendix E

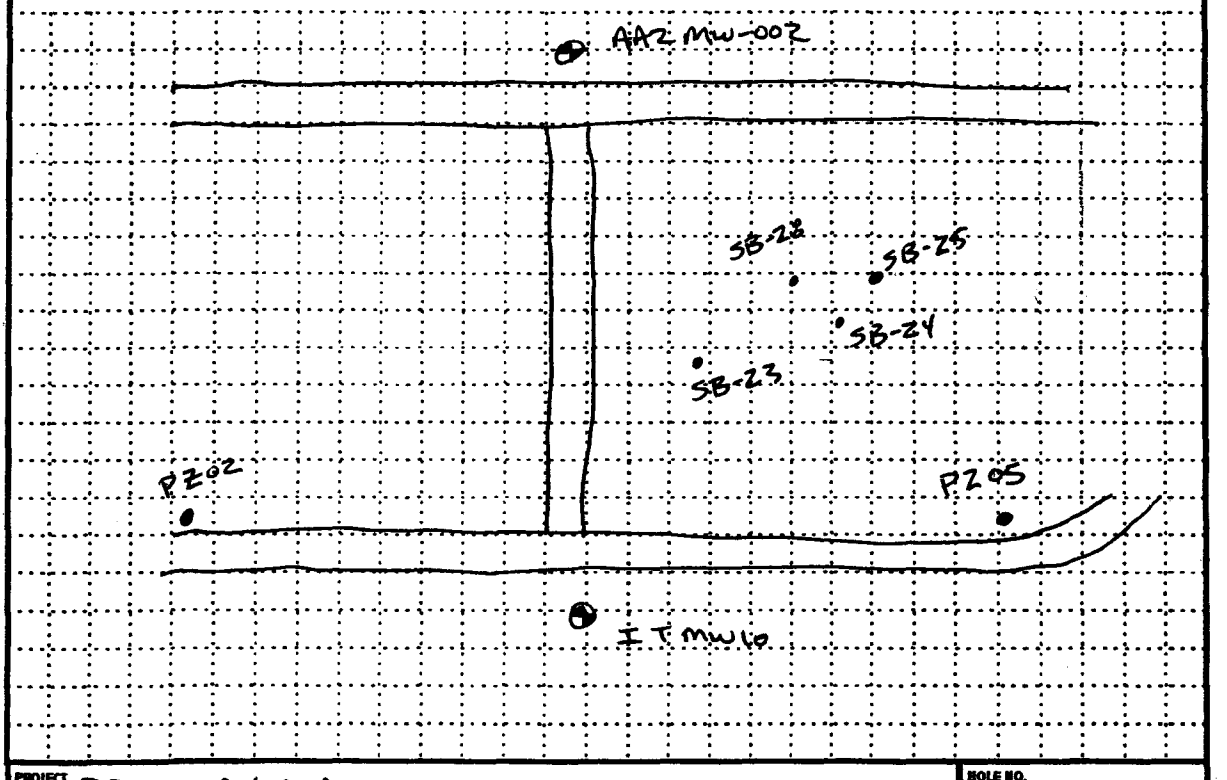
Piezometer and Monitoring Well Boring Logs – Acid Area 2

HTRW DRILLING LOG

DISTRICT: USACE - Nashville		HOLE NUMBER: AAZ-PZ05
1. COMPANY NAME: Jacobs Engineering	2. DRILLING SUBCONTRACTOR: Frontz Drilling	SHEET 1 OF 3 SHEETS
3. PROJECT: PBOW - Acid Areas 2+3 RI	4. LOCATION: AAZ - PZ05	
5. NAME OF DRILLER: Jeramy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Macro Core 2 7/8"	8. HOLE LOCATION: AAZ-PZ05 N-623047.142 E-1910004.019	
	9. SURFACE ELEVATION: 640.92	
	10. DATE STARTED: 11-2-04	11. DATE COMPLETED: 11-2-04
12. OVERBURDEN THICKNESS: 19'	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 19'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES: None	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS: None	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE: Set 1" PVC peizo	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: Al Hardesty		

LOCATION SKETCH/COMMENTS SCALE:



PROJECT: PBOW- Acid Area 2+3 RI	HOLE NO. AAZ-PZ05

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ05

PROJECT: PBOW-Acid Area 2+3

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SELECTED SAMPLE OR CORE FOR BG. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-9" OL, organic silt, dark brown (10YR, 3/1), soft, loose, moist.					
	1	9"-1.5', SM, silty sand, medium brown (10YR, 4/4), firm to soft, loose, moist.			NONE		
	2	1.5'-2.0', CL, silty clay, medium brown (10YR, 4/4) firm, low plasticity, moist					
	3	2.0'-3.0', CL, silty clay, medium brown (10YR, 5/3) soft, low to medium plasticity, moist					
	4	3.0-4.5, CL, silty clay with small silt lenses throughout occasional gravel and pebbles, sub angular, medium brown (10YR, 5/4), firm to soft low to medium plasticity, moist					
	5						
	6	4.5'-7.0', CL, clay, medium brown (10YR, 4/4) soft, medium to high plasicity, moist to wet					
	7	7.0'-8.0', ML/SM, sandy silt to silty sand, some clayey zones, light brown (10YR, 5/4), firm, loose, moist.					
	8	8.0'- , CL, clay, silty in places, medium gray (10YR, 4/1), soft to firm, low to medium plasticity, medium to high plasticity in places, moist to wet.					
	9						
	10						

PROJECT: PBOW-Acid Area 2+3 RI

HOLE NO. AAZ-PZ05

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ05

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	11	same as above					
	12						
	13						
	14						
	15						
	16						
	17						
	18	weathered rock fragments bottom 1".					
	19	TD - 19.0', refusal on bedrock. Limestone or limey shale					
	20						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-PZ05

ENG FORM 5056A-R, AUG 94 (Proponent: CEOIE-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

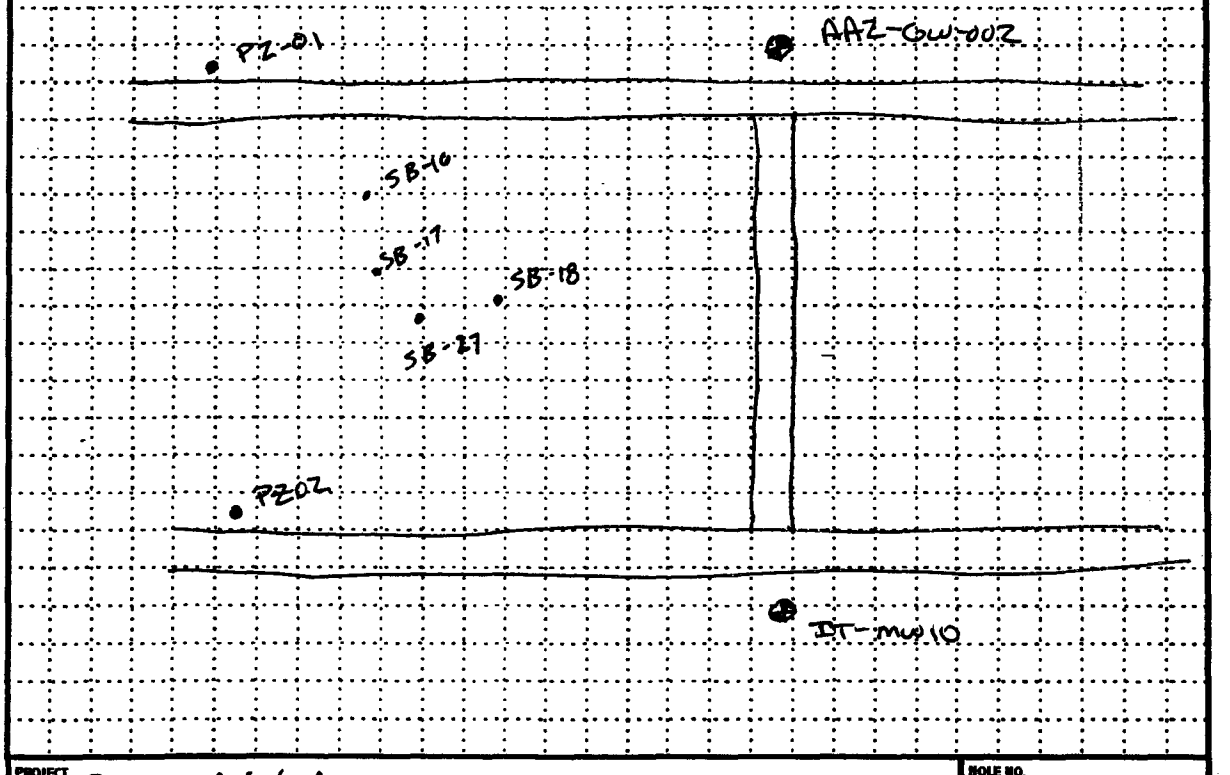
DISTRICT	USACE - Nashville
HOLE NUMBER	AAZ-PZ01
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 3 SHEETS
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AAZ- PZ01
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macrocore 2 1/8"
8. HOLE LOCATION	AAZ- PZ01 N-625550.826 E-1908693.254
9. SURFACE ELEVATION	642.73
10. DATE STARTED	11-2-04
11. DATE COMPLETED	11-2-04
12. OVERBURDEN THICKNESS	19'
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	19'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC piezo				Al Handesty

LOCATION SKETCH/COMMENTS **SCALE:**



PROJECT	HOLE NO.
PBOW- Acid Area 2+3 RI	AAZ- PZ01

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-PZ01

PROJECT: PBOW - Acid Area 2+3

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-8", OL, organic silt, dark brown (10YR, 3/1), firm, low plasticity, moist					
	1	8"-4.5', ML, clayey silt, medium brown (10YR, 4/4), firm to stiff, low plasticity, moist to dry.					
	2						
	3						
	4						
		4.5'-9.25', CL, silty clay, medium brown (10YR, 4/3), firm, low plasticity, moist					
	5						
	6	silt lenses at 5.1' to 5.2' and at 7.75 to 7.8'					
	7						
	8	silt lense at 8.2 to 8.4'					
	9						
	10	9.25'- , CL/CH, clay, medium gray (10YR, 4/1) soft, medium to high					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA2-PZ01

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ01

PROJECT: PBOW - Acid Area 2+3

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		high plasticity, moist to wet.					
	11						
	12						
	13						
	14						
	15	color change to reddish gray (5YR, 4/1), with rock fragments, pebble to sand size at 15'					
	16						
	17	increased rock fragments at 16' very stiff, moist to dry					
	18						
	19	TD-19.0' refusal on bedrock					
	20						

PROJECT: PBOW-Acid Area 2+3 RI

HOLE NO. AAZ-PZ01

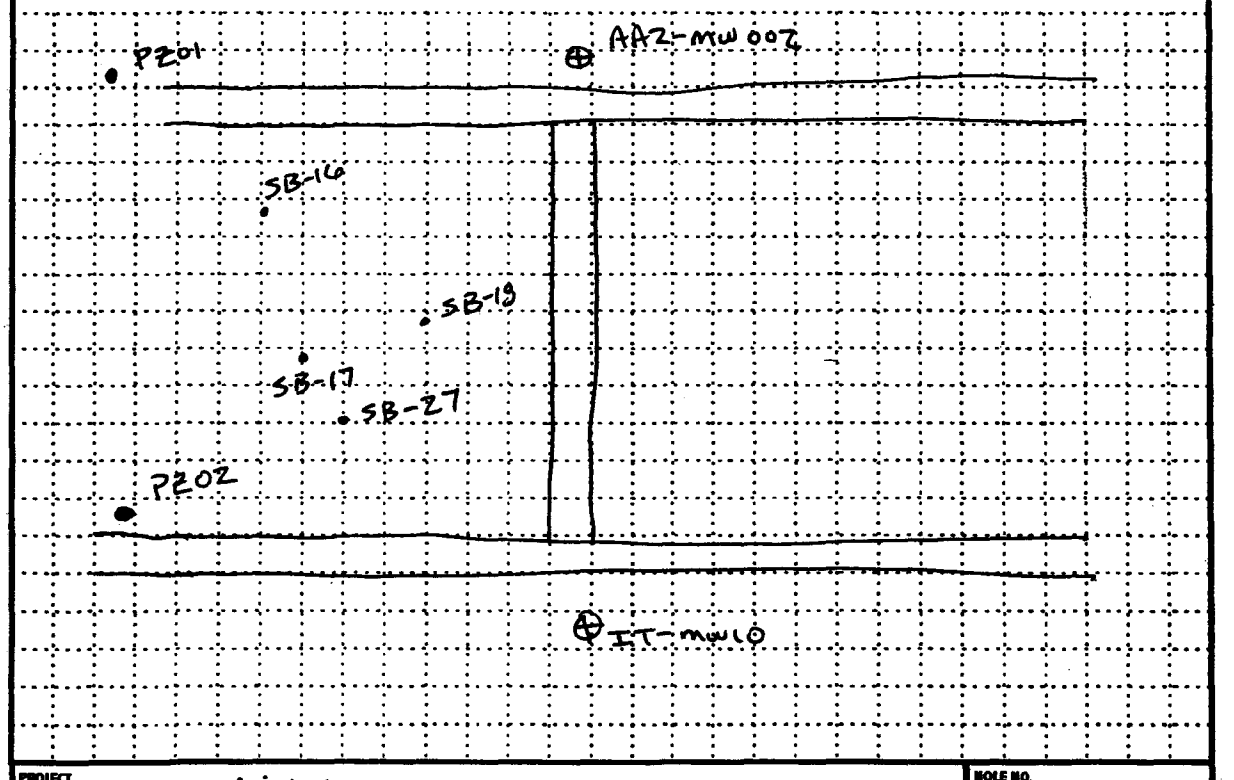
ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA2-PZ02
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 of 3
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA2- PZ02
5. NAME OF DRILLER	Jeremy Lackrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	MacroCore 2 1/3"
8. HOLE LOCATION	AA2 - PZ02 N-623083.186 E-1908757.39
9. SURFACE ELEVATION	643.55
10. DATE STARTED	11-2-04
11. DATE COMPLETED	11-2-04
12. OVERBURDEN THICKNESS	18'
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	18'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	None
VOC	
METALS	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	Installed 1" piezo
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	PBOW - Acid Areas 2+3 RI
HOLE NO.	AA2-PZ02

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-PZ02

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1	0"-8", OL, organic silt, with gravel backfill from 6"-8", dark brown (10YR, 3/2), soft moist.					
	2	8"-10", ML, sandy silt, light brown (10YR, 4/4), soft, loose dry to moist.					
	3	10"-1.5' - CL, silty clay light to medium brown (10YR, 5/3), firm, low plasticity, moist					
	4	1.5'-9.5', CL, clay, medium brown (10YR, 4/4), Firm, low plasticity, moist.					
	5						
	6						
	7						
	8						
	9						
	10	9.5'-18', CL, clay silty clay intervals					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA2-PZ02

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ02

PROJECT: PBOW - Acid Area 2+3 RI | INSPECTOR:

SHEET 3 OF 3 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	RECOVERED SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		throughout, dark to medium gray (10YR 4/1 to 10YR 5/1), soft to firm, medium to medium-high plasticity, moist to wet.					
	11						
	12				NONE		
	13						
	14						
	15						
	16						
	17	bottom 2", sandy gravelly, weathered bedrock fragments					
	18	TD - 18' - hit refusal of bedrock Limestone or Limey shale					
	19						
	20						

PROJECT: PBOW - Acid Area 2+3 RI | HOLE NO. AAZ-PZ02

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

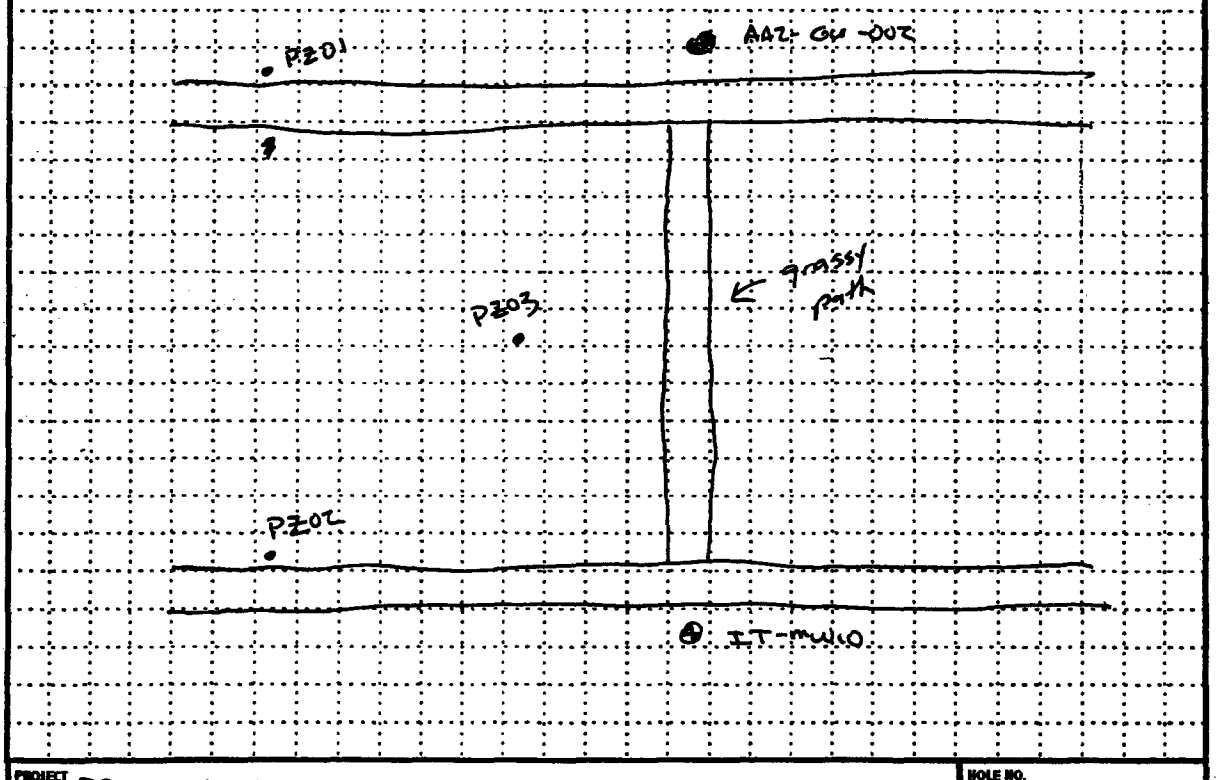
DISTRICT	USACE - Nashville
HOLE NUMBER	AA2- PZ03
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / SHEETS	1 OF 4
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA2- PZ03
5. NAME OF DRILLER	Jeremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macrocore 2"/8"
8. HOLE LOCATION	AA2 - PZ03 N-625258.236 E-1909110.319
9. SURFACE ELEVATION	643.64
10. DATE STARTED	11-3-04
11. DATE COMPLETED	11-3-04
12. OVERBURDEN THICKNESS	20.2'
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	20.2'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC Seized				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA2- PZ03

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ03

PROJECT: PBOW Acid Area 2+3

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SCREEN SAMPLE OR CORE FOR ID. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-3", OL, organic silt clayey, dark brown (10YR, 4/2), soft to firm, moist.					
	1	3"-1.5', ML, silt, med brown (5/6), soft, loose, dry to moist					
	2	1.5'-2.5, ML, clayey silt light to med brown (10YR, 5/3), firm, low plasticity, moist					
	3	2.5-6', CL, silty clay, medium brown (10YR, 5/3), soft to firm, low plasticity moist to wet.					
	4						
	5						
	6	6'- , CL, clay light brow (10YR, 5/3) to 7' changing to medium gray (10YR, 4/1). Firm to soft to 11.5' changing to firm to stiff at 11.5', low plasticity, moist to wet.					
	7						
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-PZ03

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA2-PZ03

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD TOXICANT RESULTS (d)	UNDISTURBED SAMPLE OR CORE EOR DIST. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	11						
	12						
	13						
	14	rock fragments pebble to sand size beginning at 14', sub angular					
	15						
	16	color change to reddish gray gradually occurs beginning at 16' (5YR, 4/1) also changing to dry to moist.					
	17						
	18						
	19						
	20						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA2-PZ03

ENG FORM 5058A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER AAZ-PZ03

PROJECT PBOW - Acid Area 2+3 RI

INSPECTOR

SHEET 4 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		TD - 20.2' hit refusal on bedrock.					
	21						
	22						
	23						

PROJECT PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-PZ03

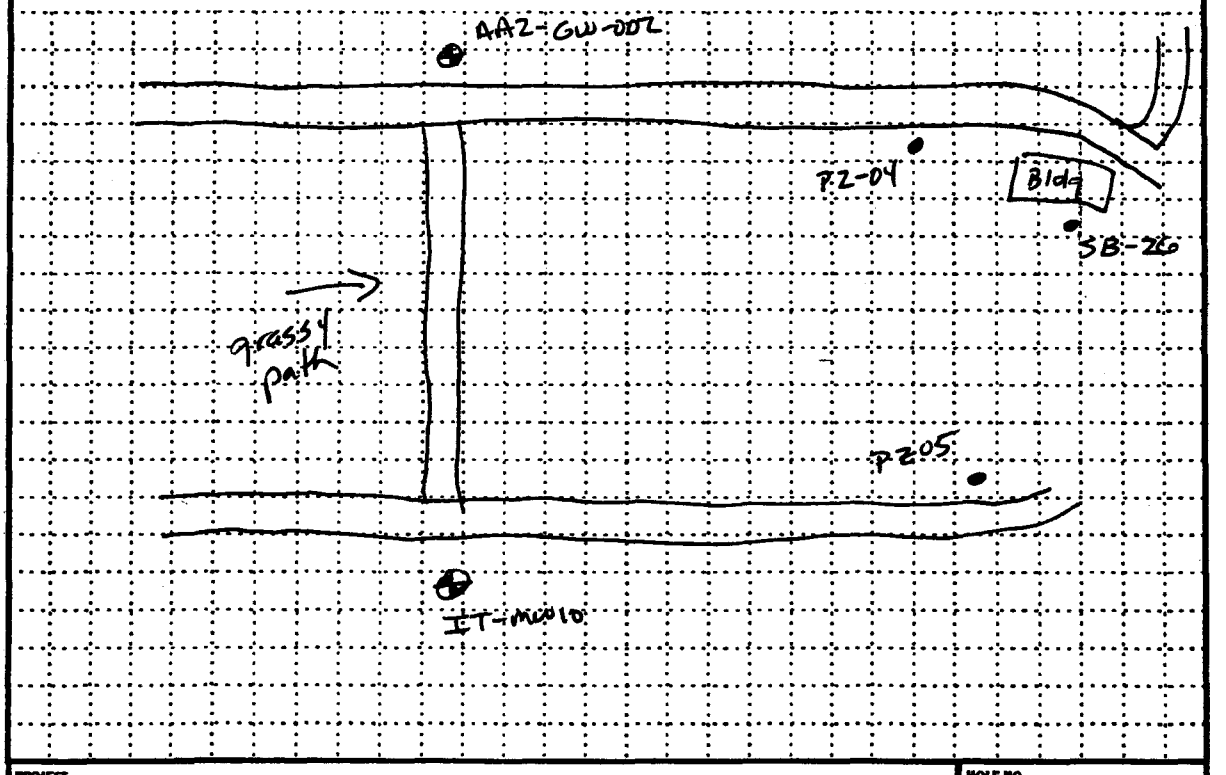
ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AAZ-PZ04
1. COMPANY NAME	Jacobs Engineering
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 4
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AAZ-PZ04
5. NAME OF DRILLER	Jeremy Leckrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro Core 2 1/8"
8. HOLE LOCATION	AAZ-PZ04 N-623474.4827 E-1910053.3862
9. SURFACE ELEVATION	640.54
10. DATE STARTED	11-2-04
11. DATE COMPLETED	11-2-04
12. OVERBURDEN THICKNESS	21.5'
13. DEPTH DRILLED INTO ROCK	
14. TOTAL DEPTH OF HOLE	21.5'
15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	None
VOC	
METALS	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	1" PVC piezo
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	PBOW- Acid Areas 2+3 RI
HOLE NO.	AAZ-PZ04

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ04

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (ft)	FIELD SCREENING RESULTS (ft)	SELECTED SAMPLE DESTINATION (ft)	ANALYTICAL SAMPLE NO. (ft)	BLOW COUNT (ft)	REMARKS (ft)
		0"-4", OL, organic silt, dark brown (10YR 4/1) soft, loose, moist.					
	1	4"- 8', ML, silt, medium brown (10YR, 4/4), firm to stiff, no plasticity, moist to dry. Increased clay content from 6.5' to 8.0'			NONE		
	2						
	3						
	4						
	5						
	6						
	7						
	8	8'- 13', CL, Clay, medium brown (10YR, 4/4) changing to med to dark gray (10YR, 4/1) at 9.9', firm to soft, low to medium plasticity increasing to medium to high plasticity at 10.5',					
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ04

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE SIZE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		moist to wet.					
	11						
	12						
	13	13' - 21.5', CH, Clay medium ~~brown~~ dark gray (10YR, 5/1), soft high plasticity, moist to wet.					
	14						
	15						
	16						
	17						
	18						
	19						
	20	rock fragments at 19.5'					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ - PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AAZ-PZ04

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		increasing rock fragments from 19.5' to 21.5'					
	21						
	22	TD - 21.5 refusal on bedrock, lime stone or shaley limestone.					
	23						
	24						
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AAZ-PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

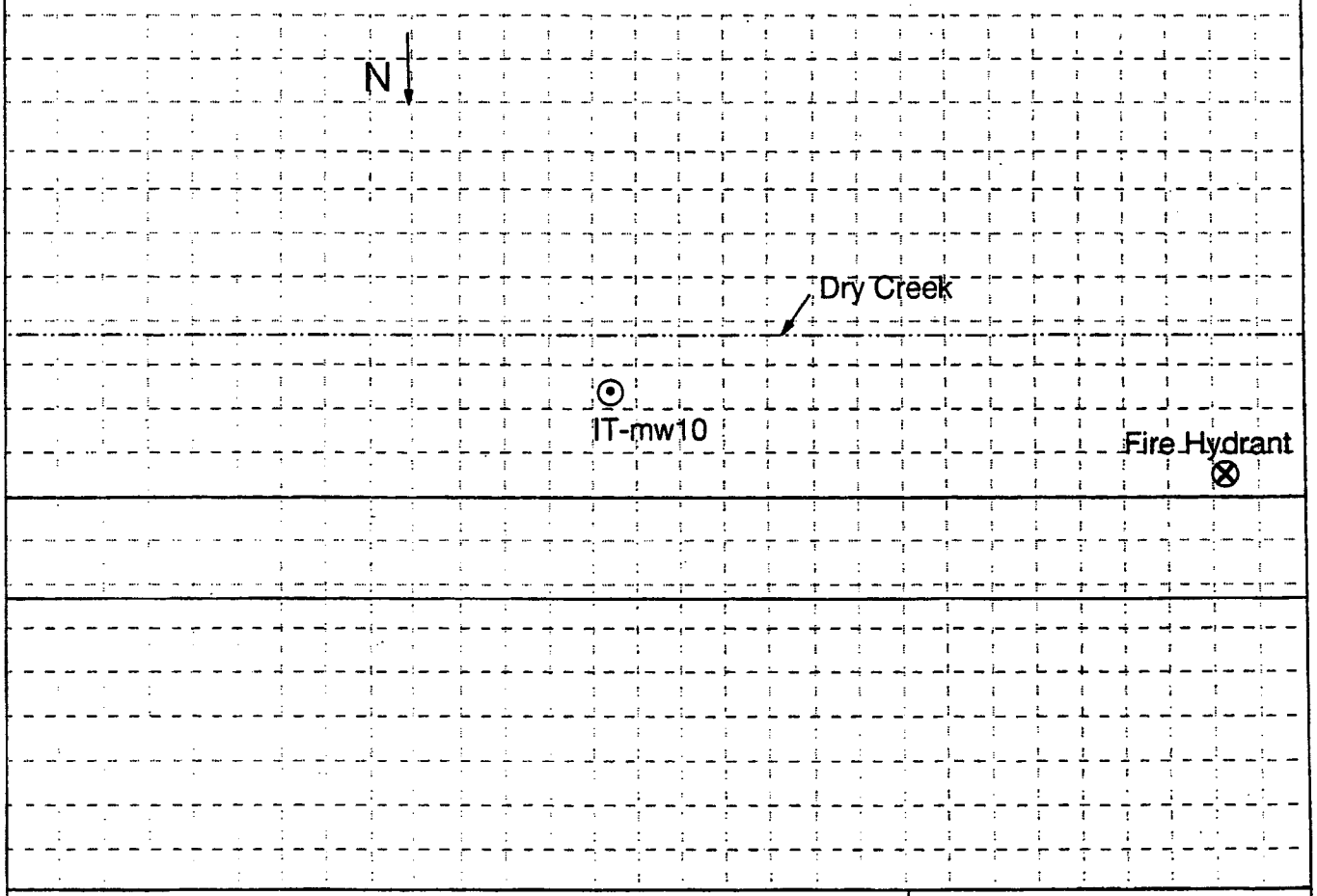
DISTRICT: Nashville		HOLE NUMBER: IT-MW10
1. COMPANY NAME: IT Corporation	2. DRILL SUBCONTRACTOR: Alliance	SHEET 1 OF 3 SHEETS
3. PROJECT: PBOW	4. LOCATION: Erie County, Ohio	
5. NAME OF DRILLER: Paul D. McAdams	6. MANUFACTURER'S DESIGNATION OF DRILL: Dietrich D-50	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" Split Spoons, 8-1/2" O.D. Augers	8. HOLE LOCATION N-623021. E-1909485 Northwest of Redwater Pond	
	9. SURFACE ELEVATION: 642.51 feet (MSL)	
	10. DATE STARTED: 9/26/96	11. DATE COMPLETED: 9/27/96
12. OVERBURDEN THICKNESS: 19.5 ft.	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: 0.5 ft.	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 17.9 ft./5 days	
14. TOTAL DEPTH OF HOLE: 20.0 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
X	X		

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NA				Pest/PCBs	Nitro	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Wesley White/

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE NO.
PBOW	IT-MW10

PBOW/BORINGS/MW-6.DRW/MC/11-11-96

INTERNATIONAL TECHNOLOGY CORPORATION

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NO. IT-MW10

PROJECT: PBOW | INSPECTOR: W. White | SHEET 2 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	USCS f	BLOW COUNTS g	REMARKS h
	1	Firm, dark gray (10 YR 4/1) mottled with pale brown (10 YR 6/3) silty CLAY, medium plasticity, moist, roots	0.0	S-1	CL	1,3 3,5	
	2	Hard, very pale brown (10 YR 7/4), clayey SILT, low to medium plasticity, moderately low dry strength, dry to moist (below plastic limit)	0.0	S-2	ML	4,4 5,6	
	4	Firm, very pale brown (10 YR 7/3) clayey SILT to SILT, low plasticity, low dry strength, dry	0.0	S-3 Geotechnical Sample		7,8 11,15	
	6	Firm to soft, gray (10 YR 5/1), interbedded silty CLAY and SILT, medium to low plasticity, silts are dilatent, silty clays are moist to wet, silts are moist to dry	0.0	S-4	ML/CL	5,6 7,9	
	8	Silts are becoming moist to wet Fewer clay beds (predominant silts)	0.0	S-5	ML	3,3 4,4	
	10						

Project: PBOW | Hole No. IT-MW10

INTERNATIONAL TECHNOLOGY CORPORATION

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NO. IT-MW10

PROJECT: PBOW | INSPECTOR: W. White | SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	USCS f	BLOW COUNTS g	REMARKS h
	10						
	11		0.0	S-6		3,2 3,4	
	12						12
	13		0.0	S-7	ML	1,3 4,4	
	14						14
	15		0.0	S-8 Geotechnical Sample		1,3 3,3	
	16						16
	17		0.0	S-9 Geotechnical Sample		2,3 3,4	
	18	Hard, dark bluish gray (5PB 4/1) clayey SILT, trace gravel and sand, low to medium plasticity, moist to dry, limestone float					18
	19	19.5	0.0	S-10	ML	8,11 50, 50=1/2"	
		Limestone 20.0					
	20						20

Project: PBOW | Hole No. IT-MW10

INTERNATIONAL TECHNOLOGY CORPORATION

Copy

HTRW DRILLING LOG

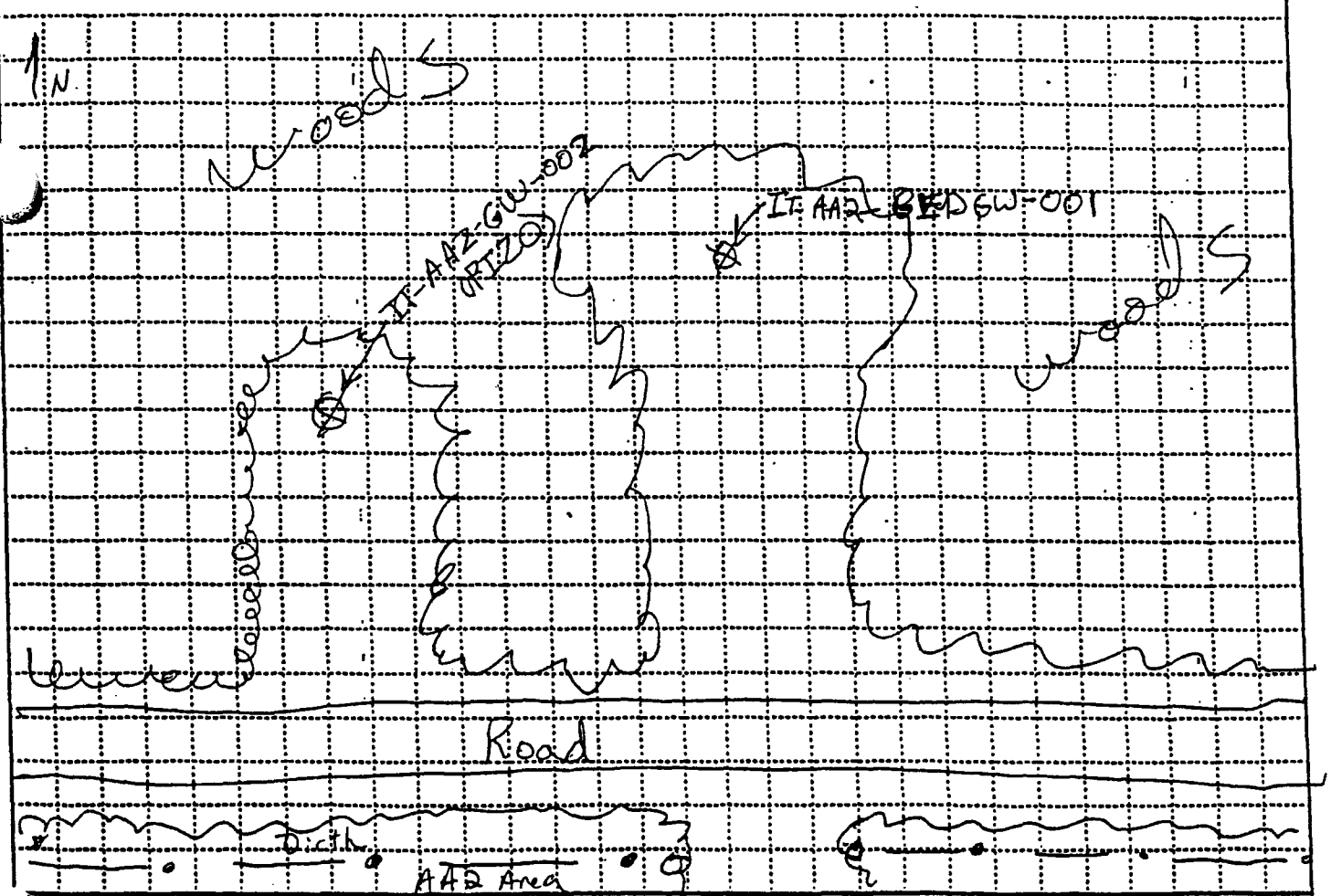
DISTRICT: USACE/Nashville	HOLE NUMBER: IT-AA2-GW-002	
1. COMPANY NAME: IT Corp	2. DRILL SUBCONTRACTOR: Belasco Drilling	SHEET 1 OF 3 SHEETS
3. PROJECT: AA2 / Plum Brook Ordnance Works	4. LOCATION: Sandusky, Ohio	
5. NAME OF DRILLER: Allen Dudley	6. MANUFACTURER'S DESIGNATION OF DRILL: Dierich D 120	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Dierich D 120 (Drill Rig), 8 1/4 O.D. HSA, 2" x 2" S.S. split Spoon, 140 lb Hammer	8. HOLE LOCATION: N-623589 E-1909481 See sketch	
	9. SURFACE ELEVATION: 641.5 survey ~~644.0~~ / (From Topo)	
	10. DATE STARTED: 9/22/97	11. DATE COMPLETED: 9/22/97
12. OVERBURDEN THICKNESS: 19.5'	15. DEPTH GROUNDWATER ENCOUNTERED: Not encountered	
13. DEPTH DRILLED INTO ROCK: None	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: No water Present	
14. TOTAL DEPTH OF HOLE: 19.5'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
3	X		NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
						NA

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Pizometer			Pizometer	Greg Buekner /

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE NO.
AA2 / Plum Brook Ordnance Works	IT-AA2-GW-002

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NUMBER: IT-AA2-GW-001

PROJECT: AA2/Plum Brook ordnance Works | INSPECTOR: G. Buckner | SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL ~~SAMPLE NO.~~ (f)	REMARKS (g)
		Leaves + Organics 0.1'	HNU		Blow counts	Sample thru 4 1/4 inch I.D. Auger by Using 2'x2" SS-split Spoon.
		Silt, sdy (45%), Vor f grn, Dry to Slightly Damp, soft, Dark br, non Pl. 0.5'	18.0 ppm		1/3, 3/5	16:10
	1	SAND, Sdy, V. f grn, orange br to br, Dry, Soft, Non Plastic 1.0'				Raw 2.0', Rec 1.9', loss 0.3'
		Clayey silt, sdy (40%), Silt, Dry, mottled brown + Grayish Brown, med to low pl. 1.7'				Auger to 2.0' 2.0'
	2	Clayey silt, sdy (30%), Very stiff, Grayish br. & br, Dry, med pl.			8/10, 13/15	
	3		9.2 ppm			Raw 2.0', Rec 1.8', loss 0.2'
						Auger to 4.0' 4.0'
	4				4/8	Raw 2.0', Rec 1.6', loss 0.4'
	5	5.1'-5.3' 0.2' Silt sdy (30% Sand) dense	6.2 ppm		13/11	
		6.0'				Auger to 6.0' 6.0'
	6	Silt, br, soft, Dry to Slightly Damp, low Pl. 6.9'				16:25
	7	SILT sdy (25%) VF grn, Dry to slightly Damp, light br. Non Pl. 7.1'	4.0 ppm		4/10, 13/12	Raw 2.0', Rec 2.0', loss 0.0'
		Silt, brown to dk brown, soft to med, low Pl., Dry 8.3'				Auger to 8.0' 8.0'
	8	Clay, sdy (25%), Gray, Slightly Damp, med. to High pl., Homogeneous, Stiff			3/5	Raw 2.0', Rec 1.8', loss 0.2'
	9		4.0 ppm		10/9	
	10					Auger to 10.0' 10.0'

HIRW DRILLING LOG

PROJECT: Plum Brook Ordnance Works / AA-2 | INSPECTOR: G. Buckner | HOLE NUMBER: IT-AA2-GW-002 | SHEET 3 OF 3 SHEETS

ELEV. (m)	DEPTH (m)	DESCRIPTION OF MATERIALS (m)	FIELD SCREENING RESULTS (m)	GEOTECH SAMPLE OR CORE BOX NO. (m)	ANALYTICAL SAMPLE NO. (m)	REMARKS (m)
635		Clay Silty (10%) gray Med med to high Plasticity slightly Damp. Homogeneous	ANR	Geotech Sample	Blow counts	14:20
	11		2.0 ppm	IT-AA2-GW-002 10'-12' - 14:20	2/3 5/4	Raw 2.0' Rec 1.8' loss 0.2'
633	12					Auger to 12.0' 12.0'
		12.2 slight increase in silt content (25%) other Remains the same			2/3	
	13		1.5 ppm		3/5	Raw 2.0' Rec 1.8' loss 0.2'
	14					Auger to 14.0' 14.0'
630	15		1.2 ppm		1/2 3/3	Raw 2.0' Rec 1.7' loss 0.2'
629	16					Auger to 16.0' 16.0'
		16.4'		Geotech Sample		14:35
628	17	Clay Gravel (Shale) (20%) med to fine grain Soft Slightly Damp to Damp Gray	1.8 ppm	IT-AA2-GW-002 14:35 16'-18'	1/2 4/7	Raw 2.0' Rec 1.8' Loss 0.2'
627	18					Auger to 18.0' 18.0'
		18.3				14:40
626	19	Gravel (Fine to med grained shale) Clay Dry to slightly Damp. Stiff	0.8 ppm		5/10 50-5 inches	Raw 1.5' Rec 1.5' Loss 0.0'
		Spoon Refusal 19.5'				14:50
625	20	19.5' T.D. of Hole.				

PROJECT: Plum Brook Ordnance Works / AA-2 | HOLE NO. IT-AA2-GW-002

MK-MW09

MORRISON KNUDSEN CORP.
ENVIRONMENTAL SERVICES GROUP

SOIL BOREHOLE LOG

SHEET 1 OF 1

BOREHOLE NUMBER: MW09

PROJECT: PLUM BROOK SI	LOCATION: SANDUSKY, OHIO
EXCAVATION AUTHORIZATION NO.:	DRILLING SUB-CON: TOLTEST / RIG MODEL: TRACK
DATE START: 6/29/93 / FINISHED: 6/29/93	GEOLOGIST: T. BENSON / TOTAL DEPTH: 15'
ELEVATION: 642.95 / COORDINATES: N-623901 E-1908872	BORING METHOD AND EQUIPMENT: HOLLOW STEM AUGER/SPLIT SPOON

GROUNDWATER LEVEL	DEPTH BELOW SURFACE (FEET)	SAMPLE: WELL SCREEN	METHOD	RECOVERY (INCHES)	RETAINED (INCHES)	OVA/HNU SCREENING ( )	SPT 6" -6" -6" -6"	N	USCS CLASIFICATION	SOIL DESCRIPTION: name, gradation, percent gravel, color, moisture content, relative density or consistency, soil structure, mineralogy, staining.
							3-2-3-6			0-1' SILTY CLAY, POORLY GRADED, NO GRAVEL, DARK BROWN, TRACE SAND, TRACE ORGANICS
										1'-15' SILTY CLAY, POORLY SORTED, NO GRAVEL, BROWN, TRACE SAND
	5									
▽										9' ENCOUNTERED WATER
	10									
										AUGERED TO 15'
	15									TERMINATION @ 15'
	20									

BOREHOLE WATER LEVELS (NON-STATIC CONDITIONS)

WHILE SAMPLING: ft.	CASING DEPTH: ft.	WHILE DRILLING: ft.	CASING DEPTH: ft.
BEFORE REMOVING CASING: ft.	TOTAL CASING DEPTH: ft.	IMMEDIATELY AFTER REMOVING CASING: ft.	
AFTER COMPLETION: ft. DAY/TIME		AFTER COMPLETION: ft. DAY/TIME	

HTRW DRILLING LOG

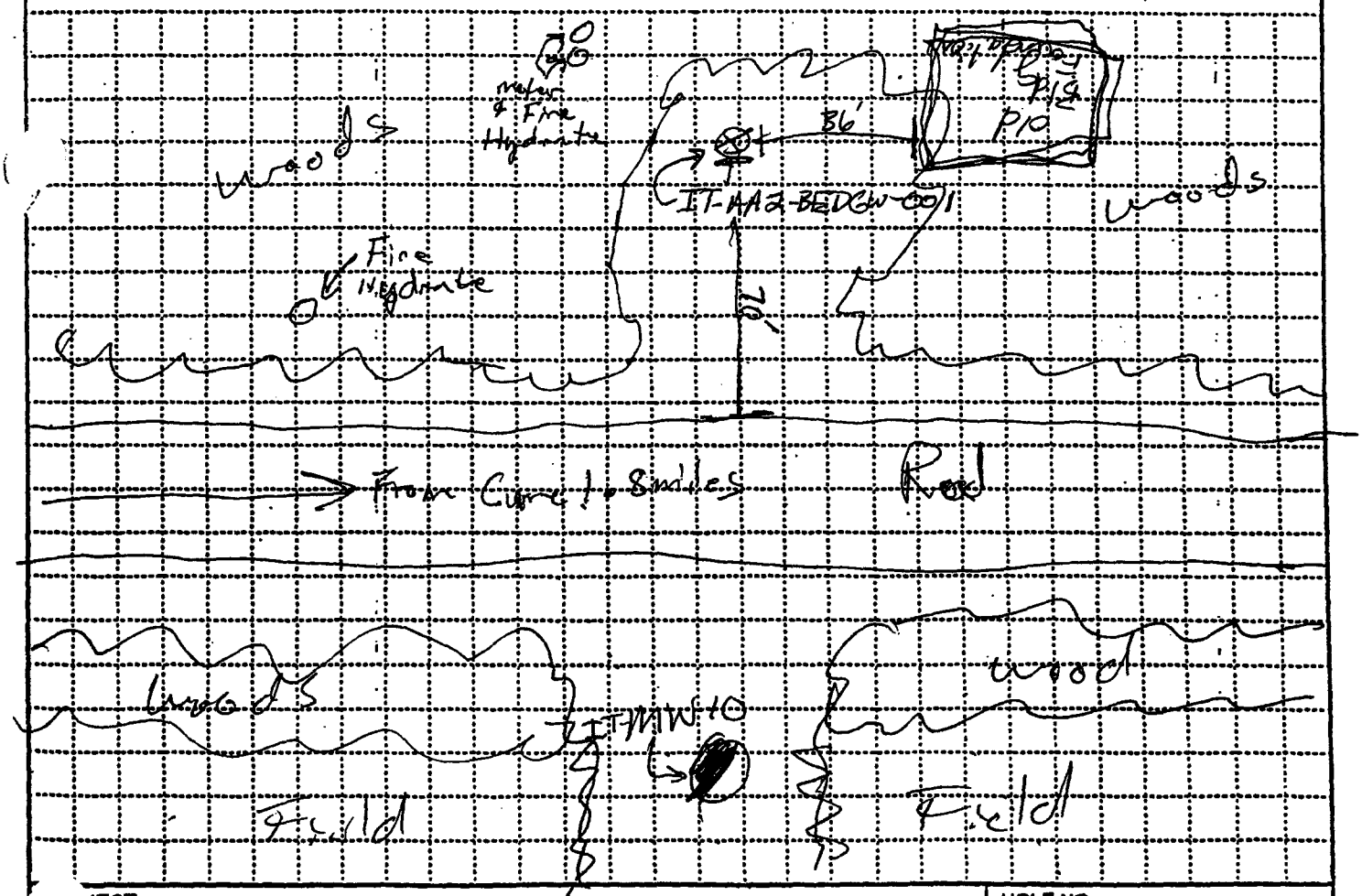
DISTRICT: USACE / Nashville		HOLE NUMBER: IT-AA2-BEDGW-001
1. COMPANY NAME: IT Corp	2. DRILL SUBCONTRACTOR: Belasco Drilling	SHEET 1 OF 6 SHEETS
3. PROJECT: AA2 / Plum Brook Ordnance Works	4. LOCATION: Sandusky, Ohio	
5. NAME OF DRILLER: Allen Dudley	6. MANUFACTURER'S DESIGNATION OF DRILL: Dreirich D-120	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Dreirich D-120 (Drill Rig) 12 1/4 HSA ID, SS Split Spoon, 140lb Hammer, 11" Roller Cone Bit, 10" x 3" Core Barrel, 825 Ingersoll Rand Air Compressor.	8. HOLE LOCATION: N=623599.44 E=1409552.48 See Sketch	
	9. SURFACE ELEVATION: 641.60 Ft. ~~640.0~~ (From Topo) DKK	
	10. DATE STARTED: 9/6/97	11. DATE COMPLETED: 10/2/97
12. OVERBURDEN THICKNESS: 18.8'	15. DEPTH GROUNDWATER ENCOUNTERED: 34.0	
13. DEPTH DRILLED INTO ROCK: 25.2'	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 12.48 on 10-5-97	
14. TOTAL DEPTH OF HOLE: 44.0'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
2	X		1

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Greg Buckner / [signature]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT: Plum Brook Ordnance Works

HOLE NO. IT-AA2-BEDGW-001

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NUMBER: GW-001

PROJECT: AA-2 / Plum Brook Ordnance Works | INSPECTOR: G. Duckner | SHEET 2 OF 2 SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		Leaves + organics 0.2'	HNu		Blow Counts	Sample Thru 4 1/4 ID HSA, using 2' x 2" SS split spoon. 140 lb Hammer.
		Silt Sdy V F gra br + Orangish br Mottled lo low Pl. 0.7 Becoming ~~Hard~~ stiff.	6.0 ppm		2/9 9/10	RAN: 2.0' REC: 1.0' Loss: 1.0'
	1	ML				
	2	2.2'				Auger to 2.0' 2.0'
		SILT Layering Present Mottled Brown + yellow br. Dry sdy (Very little) Dry lo med Pl.	0.0 ppm		6/6 9/8	RAN 2.0' REC 1.0' Loss 1.0'
	3	ML				
	4	4.0' Becoming mottled + layered Orange br + gr				Auger to 4.0' 4.0'
	5	5.5' mst	4.6 ppm		5/6 7/10	Ran 2.0' Rec 1.8' Loss 0.2'
	6	6.0'				Auger to 6.0' 6.0'
		SILT Br Dry to mst lo med Pl.	1.0 ppm		5/13 11/9	Ran 2.0' Rec 2.0' Loss 0.0'
	7	ML				
	8	7.8' Becoming mst to wet				Auger to 8.0' 8.0'
		8.5'			3/3	
	9	Silt wet med Gr low ~~to med~~ to Pl. ~~wet~~ GB GB	2.2 ppm		2/3	Ran 2.0' Rec 2.0' Loss 0.0'
	10					Auger to 10' 10.0'

PROJECT: AA-2 / Plum Brook Ordnance Works | HOLE NO. IT-AA2-BEDGW-001

HTRW DRILLING LOG

HOLE NUMBER GW-001

PROJECT AA2/Plum Brook Ordnance Works | INSPECTOR G. Buckner | SHEET 3 OF 3 SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		Silt Gr Homogeneous Wet to most low to Med Plas t.	HNU	Geotech Sample Sample # IT-AA2-BEDGW-001 10'-12' 14:40	3/2 3/4	Ran 2.0' Rec 1.6' Loss 0.4'
	11	ML	2.0 ppm			
	12	12.2				Auger to 12.0' 12.0'
		Silt Clay (30%) Homogeneous Firm Med Gray Damp Med. Pl.			2/2 3/4	Ran 2.0' Rec 1.8' Loss 0.2'
	13	ML	4.1 ppm			
		13.5'				
		Silt Clay (30%) gravel (Shale) Fgra Gray Damp to most Med. Pl.				Auger to 14.0' 14'
	14	14.0'				
		no gravel Present.			2/3 5/5	Ran 2.0' Rec 1.7' Loss 0.3
	15		4.0 ppm			
	16					Auger to 16.0' 16'
				Geotech Sample Sample # IT-AA2-BEDGW-001-16'-18' (15:00)	3/4 8/10	Ran 2.0' Rec 1.6 Loss 0.4
	17	17.0'				
		Clay Sily Gravel Present (Shale) Gr med to Dense most to Damp.	3.8 ppm			Auger to 18' 18.0'
	18					Spoon Refusal at 18.8' limestone in the End of Spoon.
		1st LIMESTONE (VH) 1/7/99 18.8' Spoon & Auger Refusal	10.2 ppm		8/50/4 inch	(1510)
	19					
	20					

HTRW DRILLING LOG

HOLE NUMBER: IT-AA2-BEDGW-001

PROJECT: Plum Brook Bed WANCE Work

INSPECTOR: ED KANEWSKY

SHEET 4 OF SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		Siltstone slightly wheathered dry				start 1025 Finished 1105 90% recovery
	21	grey soft-to moderately hard				
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					

PROJECT

HOLE NO. IT-AA2-BEDGW-001

HTRW DRILLING LOG

HOLE NUMBER: IT-AA2-BEDGW-001

PROJECT: Plum Brook Ordnance

INSPECTOR: ED KANESKY

SHEET 5 OF SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		~~siltstone~~ Limestone moderately weathered moderately hard ~~wet~~ damp				Start 1310 End 1400 100% recovery
	31	gray				
		~~siltstone~~ Limestone moderately weathered moderately hard moist gray				
	32					
	33					
	34	~~siltstone~~ Limestone moderately weathered moderately hard wet gray				
	35					
	36					
	37					
	38					
	39					

PROJECT

HOLE NO. ~~AA~~ IT-AA2-BED GW-001

HTRW DRILLING LOG

HOLE NUMBER: IT-AA2-BEDGW-001

PROJECT: Plum Brook Ordnance Works

INSPECTOR: ED KANERSKY

SHEET 6 OF 6 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		Siltstone (Limestone?)				Start 1350
		Slightly weathered				END 1530
		moderately hard				100% recovery
	41	moist				
		grey				
	42					
	43	Limestone				
		Slightly weathered				
		moist,				
	44	grey				
		moderately hard				
	45					
			BOH @ 45			
	46					
	47					
	48					
	49					

PROJECT

HOLE NO. IT-AA2-BEDGW-001

HTRW DRILLING LOG

HOLE NUMBER: PB-Bed-mw19

SHEET 1 OF 6 SHEETS

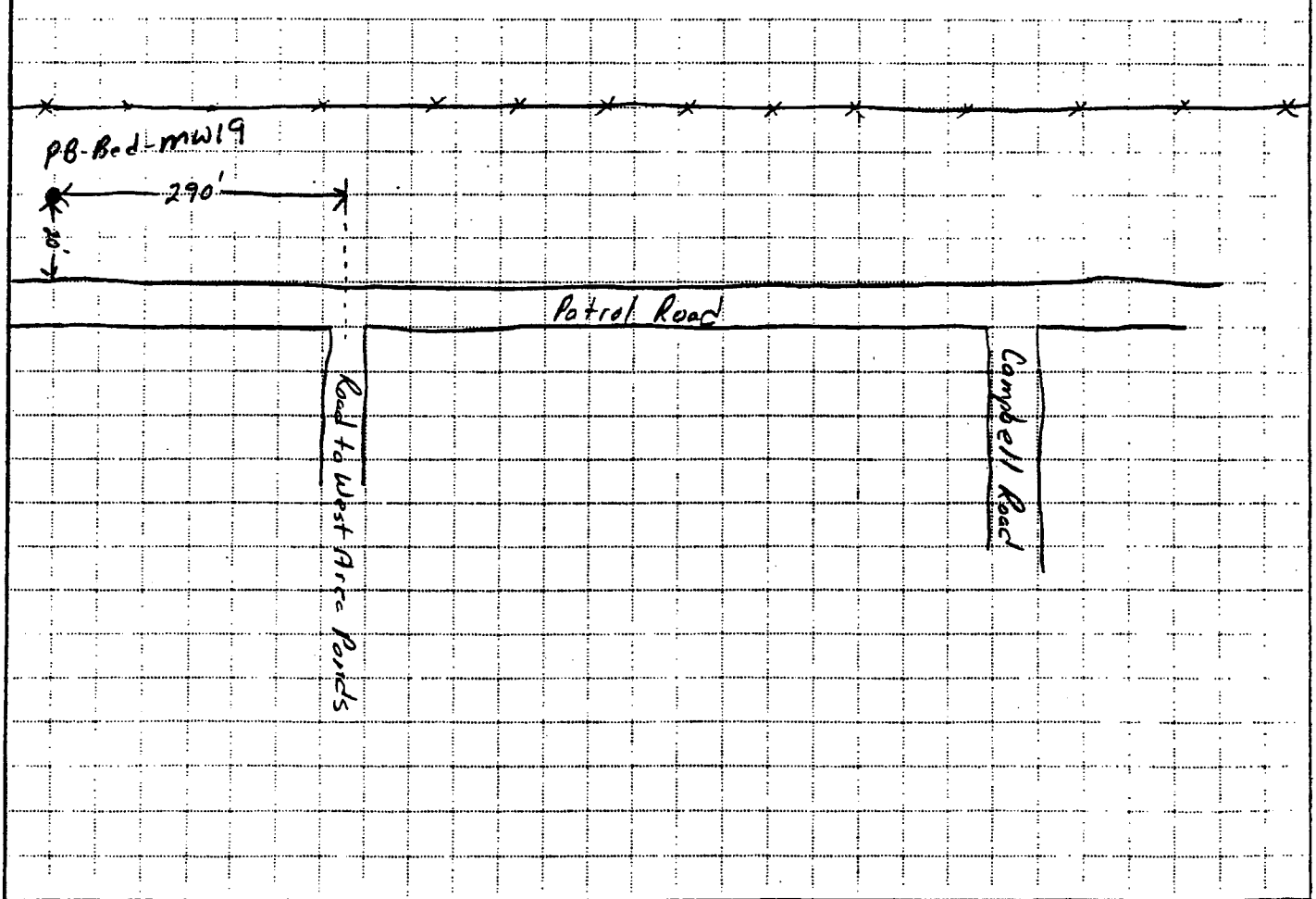
1. COMPANY NAME: Dames & Moore	2. DRILLING SUBCONTRACTOR: Belasco Drilling Services
3. PROJECT: Plum Brook Ordnance Works	4. LOCATION: Sandusky, Ohio
5. NAME OF DRILLER: Al Dudley	6. MANUFACTURER'S DESIGNATION OF DRILL: Diedrich D-120
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4¼"ID HSA, 6¼"ID HSA; 2' Split Spoons, 6" Roller Cone; NQ Core Equipment	8. HOLE LOCATION: N-623869 E-1910174; North of West Area Ponds
	9. SURFACE ELEVATION: 640.19
	10. DATE STARTED: 11-8-94 / 11. DATE COMPLETED: 11-13-94
12. OVERBURDEN THICKNESS: 19.1'	15. DEPTH GROUNDWATER ENCOUNTERED: Not encountered until coring commenced
13. DEPTH DRILLED INTO ROCK: 19.1' BGS – 49.5' BGS	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 22.56' BTOC 15 hrs
14. TOTAL DEPTH OF HOLE: 49.5' BGS, 52.2' BTOC	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 22.25' BTOC 11-16-94

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None	---		3

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
			Explosives			100%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Charles Way

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT: Plum Brook Ordnance Works

HOLE NO.: PB-Bed-mw19

HTRW DRILLING LOG

HOLE NUMBER: PB-Bed-MW19

PROJECT: Plum Brook Ordnance Works

INSPECTOR:

SHEET 2 OF 2 SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	0	Dark Brownish Black Silty Fine Sand with roots	HNu 0	2		24" Recovery
				3		
	1	Grades to Brownish Yellow		4		
				6		
	2	—	HNu 0	3		20" Recovery
				3		
	3	Brownish Yellow and Gray Clay Silt		5		
				6		
	4	Same as above	HNu 0	3		20" Recovery
				4		
	5			7		
				7		
	6	Grades mainly Brownish Yellow, some gray moist	HNu 0	2		24" Recovery
				4		
	7			5		
				7		
	8	—	HNu 0	3		24" Recovery
				3		
	9	Gray Silty Clay-moist		4		
				4		
	10					

PROJECT: Plum Brook Ordnance Works

HOLE NO. PB-Bed-MW19

HTRW DRILLING LOG

HOLE NUMBER: PB-Bed-MW19

PROJECT: Plum Brook Ordnance Works

INSPECTOR:

SHEET 3 OF SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	10	Same as above - moist	HNu 0	1 2 2 4		24" Recovery
	11					
	12	Same as above - moist Slight plasticity	HNu 0	2 2 2 3		24" Recovery
	13					
	14	Same as above with a few small fragments of weathered shale	HNu 0	1 1 2 2		24" Recovery
	15					
	16	Same with small fragments of weathered shale	HNu 0	1 2 2 4		24" Recovery
	17					
	18	Same as above	HNu 0	1 10		10" Recovery
	19	Weathered shale				Auger Refusal at 19.1'
		Limestone, medium Dark Gray (N4), finely crystalline, strong, fresh with occasional fossils		50/0 Box 1		Begin Run 1 at 19.1'
	20					

PROJECT: Plum Brook Ordnance Works

HOLE NO.: PB-Bed-MW19

HTRW DRILLING LOG

HOLE NUMBER: PB-Bed-MW19

PROJECT: Plum Brook Ordnance Works

INSPECTOR:

SHEET 4 OF 4 SHEETS 6

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	20					
		Open Break	Rec / Core	74" / Core		
	21					
	22					30 min/10 ft
		Grades to Fossiliferous limestone medium Dark Gray (N4), strong, fresh, with zones of weathered shale, Dark Gray (N3)	120" / 120"	106" / 120"		Core 120" Rec 120"
	23					
	24					Lost all return water
		Open Break				
	25					
		~~Open Break~~ Weathered shale ~~to Brown~~				
	26	Fossiliferous limestone				
		Weathered shale Highly Broken up ↓				
	27	Fossiliferous limestone				
		Weathered shale with pyrite flakes				
		Fossiliferous limestone				
		Open Break				
	28					
	29					End Run 1 at 29.1'
						Roller cone ↓
	30					

PROJECT: Plum Brook Ordnance Works

HOLE NO.: PB-Bed-MW19

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Plum Brook Ordnance Works

INSPECTOR

SHEET 5 OF 6 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	30					Roller core
	31	Ti Break		Box 1		Begin Run 2 at 30.5' core 15" Rec 15" End Run 2 at 31.75
	32					Roller core set 4" PVC casing to 32.0'
	33	Fossiliferous limestone, medium Dark Gray (N4), finely crystalline, strong, Fresh, with numerous stylolites; Ti Break; open Break				Begin Run 3 at 32.4' on 11-13-94 with NQ core barrell and clear H_2O core 86" Rec 86"
	34	open Break				
	35					19min/7.1ft
	36	Ti Break - Black stained		Box 2		
	37	Ti Break				
	38	open Break - Black stained				
	39	Ti Break				End Run 3 at 39.5' Begin Run 4 at 39.5'
	40					

PROJECT: Plum Brook Ordnance Works

HOLE NO. PB-Bed-MW19

HTRW DRILLING LOG

HOLE NUMBER: PB-Bed-MW19

PROJECT: Plum Brook Ordnance Works

INSPECTOR:

SHEET 6 OF 6 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	40					
	41					core 120" Rec 120"
	42					
		T. Break				
	43			Box 2		
		T. Break				34 min/10 ft
	44					
		T. Break				
	45					
		Open Break				
	46					
	47					
	48			Box 3		
		T. Break				H_2S odor after Run 4 completed, borehole bubbling
	49	T. Break				End Run 4 at 49.5'
						Borehole Terminated at 49.5' on 11-13-94. Set 25' screen remainder riser
	50					

PROJECT: Plum Brook Ordnance Works

HOLE NO.: PB-Bed-MW19

APPENDIX F

Appendix F

Piezometer and Monitoring Well Boring Logs – Acid Area 3

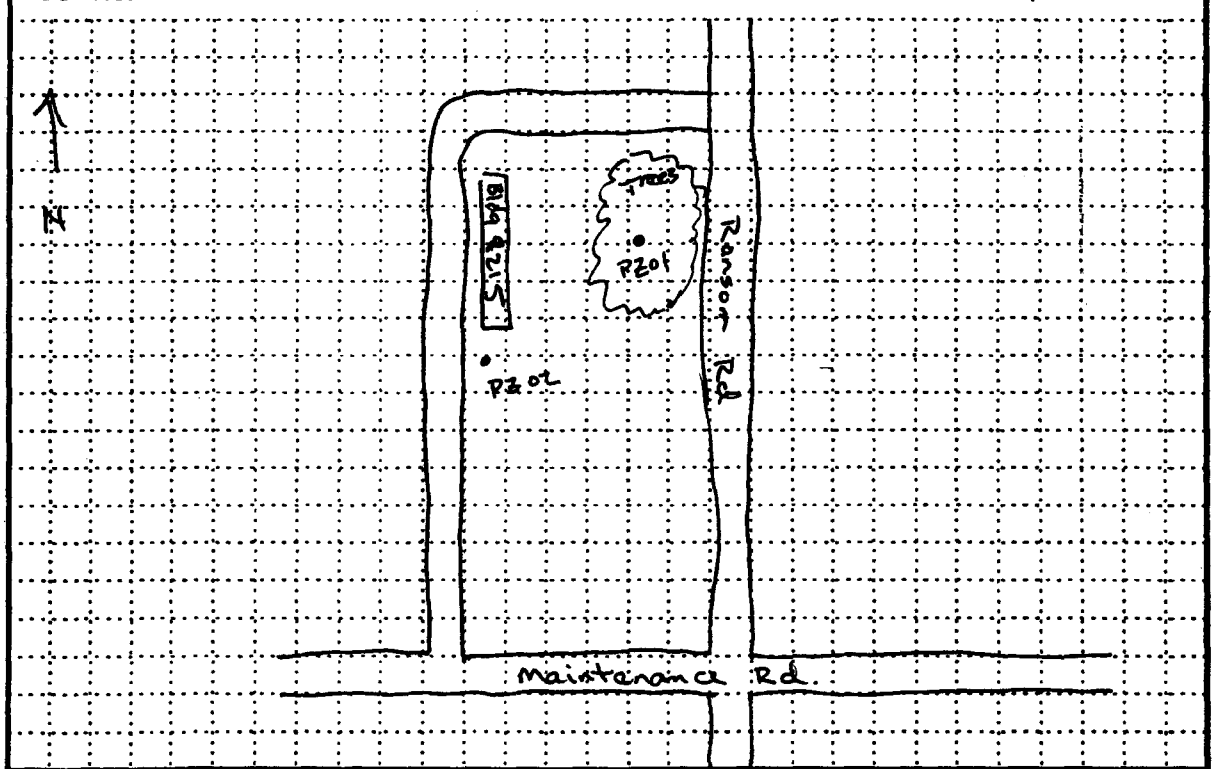
HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-PZ01
1. COMPANY NAME Jacobs Engineering	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 4 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3 - PZ01	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2"ø"	8. HOLE LOCATION AA3 - PZ01 N-625292.4727 E-1914712.8041	
	9. SURFACE ELEVATION 632.65	
	10. DATE STARTED 11-3-04	11. DATE COMPLETED 11-3-04
12. OVERBURDEN THICKNESS 21'	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 21'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC piezometer				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3 - PZ01

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3 - PZ01

PROJECT: PBow - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	GEOTECH SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	1	0"-7", OL/OH, organic silt to organic clay, dark brown (10YR, 2/2), soft to firm, loose, moist.					
	2	7"-5.0', ML, clayey silt, light to medium brown (10YR, 5/3), firm to stiff, no plasticity, dry.					
	3						
	4						
	5	5.0'-6.75', ML, silt, (light to medium brown 10YR, 5/3), soft, loose, moist.					
	6						
	7	6.75'-8.9', CL, silty clay, medium brown (10YR, 5/3) changing to med. gray (10YR, 5/1) at 8.5', soft to firm, low plasticity, moist to wet.					
	8						
	9	8.9'-21', CL, clay, medium grey (10YR, 5/1) soft to firm, low to med. plasticity, moist to wet					
	10						

PROJECT: PBow - Acid Area 2+3 RI

HOLE NO. AA3 - PZ01

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ01

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLE OR CORE FOR BOX (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	11						
	12						
	13						
	14						
	15	slight gradual color change to (5YR, 4/1) med gray with slight red tint. Rock fragments, sand and gravel size begin at 15.1 and increase in o/o downwards to bottom, change from soft to firm at 15.1'					
	16						
	17						
	18						
	19						
	20						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-PZ01

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ01

PROJECT: PBOW-Acid Area 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	GEOTECH SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	21	TD - 21' hit refusal on bedrock.					
	22						
	23						
	24						
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AA3-PZ01

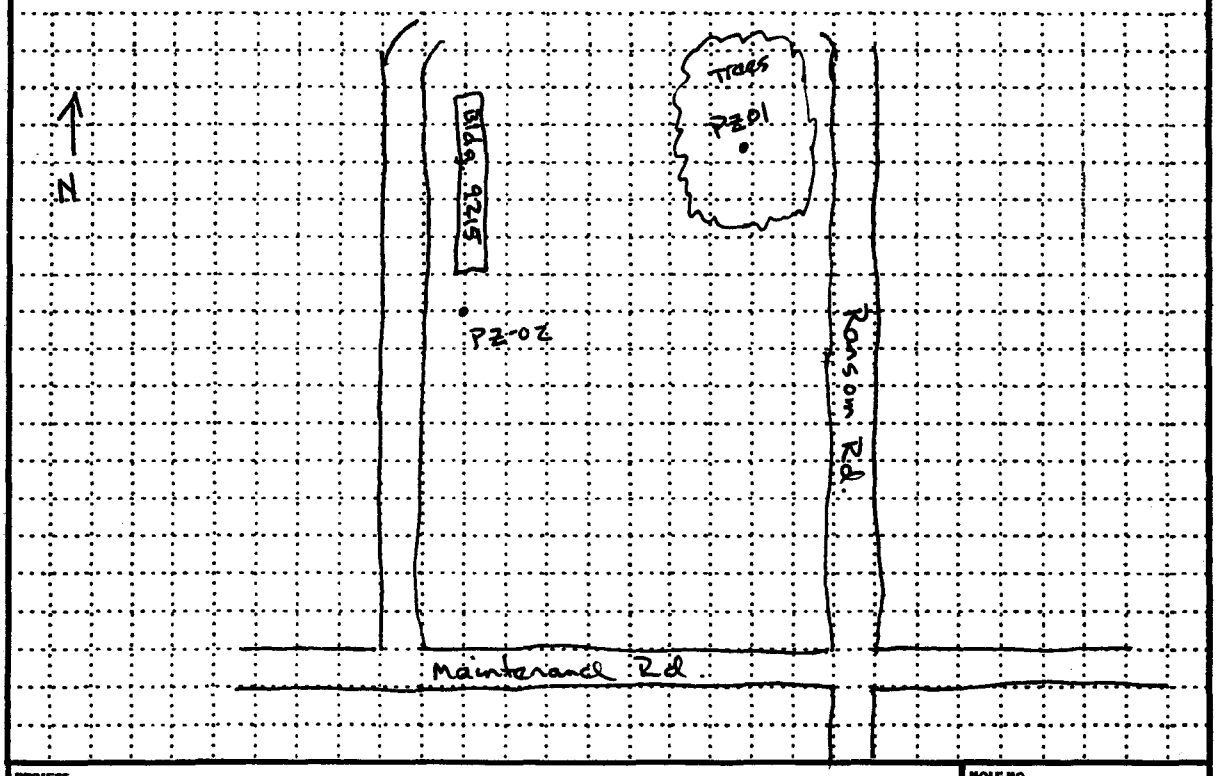
ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-PZ02
1. COMPANY NAME Jacobs Eng.	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 4 SHEETS
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3 - PZ02	
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macrocore 2 1/8"	8. HOLE LOCATION AA3 - PZ02 N-624900.05 E-1914447.633	
	9. SURFACE ELEVATION 637.02	
	10. DATE STARTED 11-3-04	11. DATE COMPLETED 11-3-04
12. OVERBURDEN THICKNESS 25.2'	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 25.2'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
None						
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Al Hardesty		
1" PVC piezometer						

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW - Acid Area 2+3 RI	HOLE NO. AA3 - PZ02

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ02

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-4", OL, organic silt, dark brown (10YR, 3/2) soft, loose, moist to dry.					
	1	4"-7", GM, silty gravel backfill, light to med. brown (10YR, 4/3), loose dry					
	2	7"-2', ML ~~SM~~, clayey silt, light to med brown (10YR, 4/3), firm, no plasticity, dry to moist.					
	3	2'-2.25', ML ~~SM~~, silt, light brown (10YR, 5/4) soft loose, dry.					
	4	2.25'-2.75, ML ~~SM~~, clayey silt, light to medium brown (10YR, 4/3), firm to stiff, moist					
	5	2.75-4.25', OL/OH, organic clayey silt to organic silty clay, dark brown, (10YR, 3/1) soft to firm, loose, moist to dry.					
	6						
	7	4.25-5.0', ML, clayey silt, med to dark brown (10YR, 4/2), firm, low plasticity, moist					
	8	5.0-5.25, ML, silt, medium brown (10YR, 4/4) soft, loose, moist					
	9	5.25'-6.0, CL, silty clay, med brown (10YR, 5/3) firm to stiff, low plast., moist					
	10	6.0-7', ML, clayey silt (10YR, 5/3), soft to firm moist to wet					

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-PZ02

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ02

PROJECT: PBOW- Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	RECOVERED SAMPLES OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		7.0-8.0', CL, clay medium brown (10YR, 5/3) soft, low to medium plasticity, moist to wet					
	11	8.0'-9.4', ML, slatey silt, medium brown (10YR, 5/3), soft to firm, moist to wet.					
	12	9.4'-18', CL, clay medium brown (10YR, 5/3) changing to medium gray (10YR, 4/1) at 10.25', soft to firm, medium plasticity, wet.					
	13						
		silty at 13.3' to 14.2'					
	14						
	15						
	16						
	17						
	18	18'-25.2', CH, Clay. medium gray (10YR, 4/1) soft to firm, medium to high plasticity, wet to moist					
	19						
	20						

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AA3-PZ02

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ02

PROJECT: PBOW-Acid Area 2+3

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SELECTED SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	21	increased plasticity at 21'; soft.					
	22						
	23	rock fragment increasing downwards from 23' to bottom.					
	24	firm at 24', decreased plasticity to bottom.					
	25	TD - 25.2' hit refusal on bedrock.					
	26						
	27						
	28						
	29						
	30						

PROJECT: PBOW- Acid Area 2+3 RI

HOLE NO. AA3-PZ02

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

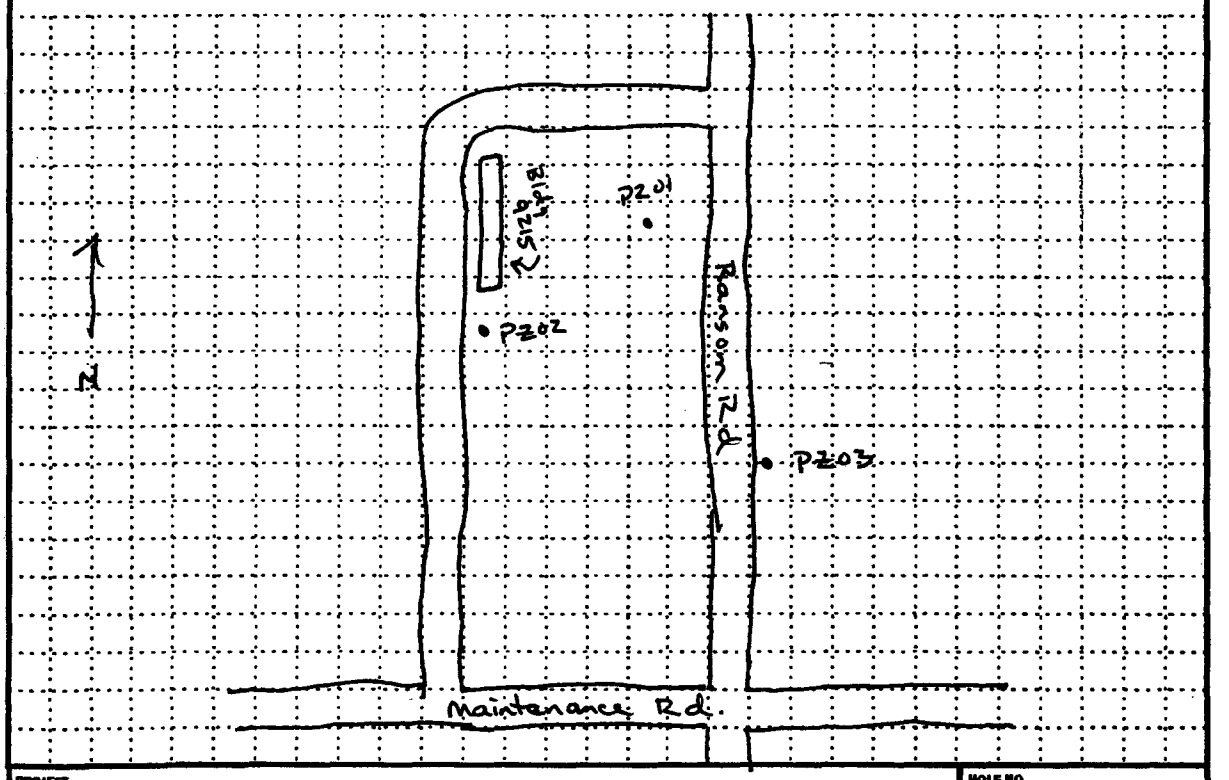
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-PZ03
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 4 SHEETS
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA3 - PZ03
5. NAME OF DRILLER	Jeremy Leckrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro core 2 1/8"
8. HOLE LOCATION	AA3 - PZ03 N-624457.186 E-1914945.487
9. SURFACE ELEVATION	636.43
10. DATE STARTED	11-3-04
11. DATE COMPLETED	11-3-04
12. OVERBURDEN THICKNESS	24.9'
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	24.9'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC piezometer				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Area 2+3 RI	AA3 - PZ03

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER AA3-PZ03

PROJECT PBOW - Acid Area 2+3

INSPECTOR

SHEET 2 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-4", OL, organic silt, dark brown (10YR, 3/2), soft, loose, moist.					
	1	4" - 5.1', ML, silt, w/ minimal clay, medium brown (10YR, 4/4), firm to stiff, no plasticity. loose in places, dry.					
	2						
	3						
	4						
	5						
		5.1' - 8.7', CL, silty clay, medium brown (10YR, 5/3), firm to stiff, low plasticity, moist.					
	6						
		silt lense from 6.7' to 6.8'.					
	7						
	8						
		8.7' - 11.4, CL, clay, silty med brown (10YR, 5/3) changing to (10YR/5/1) at 10.4', soft to firm, firm at places,					
	9						
	10						

PROJECT PBOW - Acid Area 2+3

HOLE NO. AA3-PZ03

ENG FORM 5056A-R, AUG 94

(Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER AA3-PZ03

PROJECT PBOW - Acid Area 2+3

INSPECTOR

SHEET 3 OF 4 SHEETS

ELEV. (1)	DEPTH (2)	DESCRIPTION OF MATERIALS (4)	FIELD SCREENING RESULTS (5)	REPRESENTATIVE SAMPLE OR CORE BOX NO. (6)	ANALYTICAL SAMPLE NO. (7)	BLOW COUNT (8)	REMARKS (9)
		silt lense from 10.1 to 10.3'					
	11						
		11.4' to 13.3', ML, clayey, dark to med gray (10YR, 4/1), firm, wet.					
	12						
	13						
		13.3 - 18.25', ML/SM, silt and fine sand, dark to med gray (10YR 4/1), saturated.					
	14						
	15						
	16						
	17						
	18						
		18.25'-24.9', CH, clay medium gray (10YR 4/1) soft, high plasticity, wet.					
	19						
	20						

PROJECT PBOW - Acid Area 2+3

HOLE NO. AA3-PZ03

ENG FORM 5098A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ03

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (ft)	FIELD SCREENING RESULTS (ft)	DEPTH/ SAMPLE OR CORE RUN NO. (ft)	ANALYTICAL SAMPLE NO. (ft)	BLOW COUNT (ft)	REMARKS (ft)
	21						
	22						
	23						
	24	rock fragments at 24', sand and gravel size, subangular					
	25	TD - 24.9' - hit refusal on bedrock					
	26						
	27						
	28						
	29						
	30						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-PZ03

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

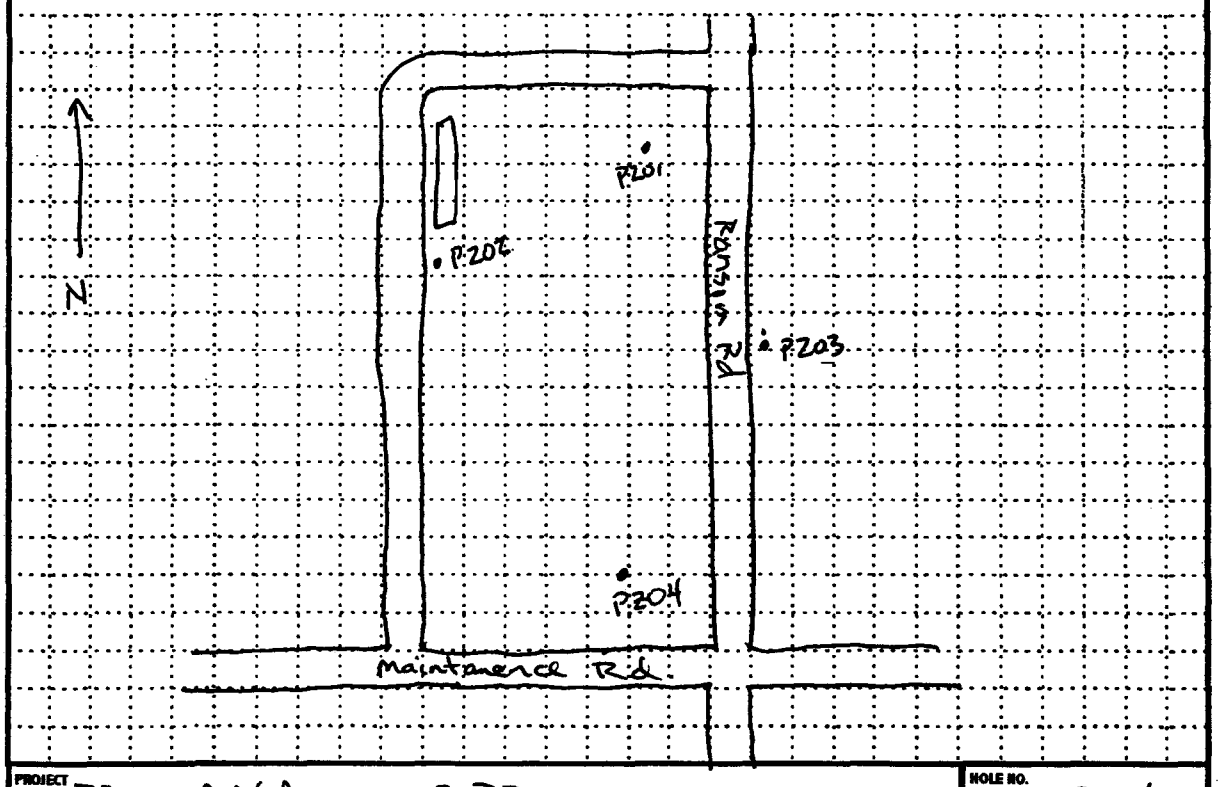
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-PZ04
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 4
3. PROJECT	PBOW - Acid Area 2+3 RI
4. LOCATION	AA3 - PZ04
5. NAME OF DRILLER	Jeremy Lockrone
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Macro core 2 7/8"
8. HOLE LOCATION	AA3 - PZ04 N - 623953.73 E - 1914745.301
9. SURFACE ELEVATION	635.84
10. DATE STARTED	11-4-04
11. DATE COMPLETED	11-4-04
12. OVERBURDEN THICKNESS	24.3'
13. DEPTH DRILLED INTO ROCK	
14. TOTAL DEPTH OF HOLE	24.3'
15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC Peizo				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
PBOW - Acid Areas 2+3 RI	AA3-PZ04

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ04

PROJECT: PBOW - Acid Areas 2+3RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (+)	DEPTH (+)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	GROUNDWATER SAMPLE OR CORE SAMPLE NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0"-9", OL, organic silt, dark brown (10YR, 3/2) soft, loose, moist			NONE		
	1	9"-21", ML, silt with fine sand, yellowish brown (10YR, 5/3), soft to firm, loose, moist.					
	2	1.75'-4.5, ML, clayey silt, medium brown (10YR, 4/3), wood fragments from 1.75'-1.9', firm, low plasticity, moist.					
	3						
	4						
	5	4.5'-7.25', CL, silty clay, soft to firm, medium brown (10YR, 4/4) low to medium plasticity, moist to wet.					
	6						
	7						
	8	7.25-8.1', ML, clayey silt, medium brown (10YR, 5/4), stiff, moist					
	9	8.1'-19.4, CL, clay, medium gray (10YR, 4/1) soft to firm, low to medium plasticity, moist to wet.					
	10						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ04

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (d)	DISTURB. SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (ft)	REMARKS (m)
	11						
	12	same as above					
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20	19.4' - 23.0', CH, clay medium gray (10YR, 4/1) high plasticity, soft					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ04

PROJECT: PBOW-Acid Areas 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		moist to wet.					
	21						
	22	small percentage of rock fragments, sand and gravel size, sub angular.					
	23	23.0'-24.3', CL, clay, with rock fragments, increasing in percentage downward, medium gray (10YR, 4/1), stiff, moist to dry.					
	24						
	25	TD - 24.3 - hit refusal on bedrock					
	26						
	27						
	28						
	29						
	30						

PROJECT: PBOW-Acid Areas 2+3 RI

HOLE NO. AA3-PZ04

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG	DISTRICT USACE - Nashville	HOLE NUMBER AA3-PZ05
1. COMPANY NAME Jacobs Eng	2. DRILLING SUBCONTRACTOR Frontz Drilling	SHEET 1 OF 4 SHEETS

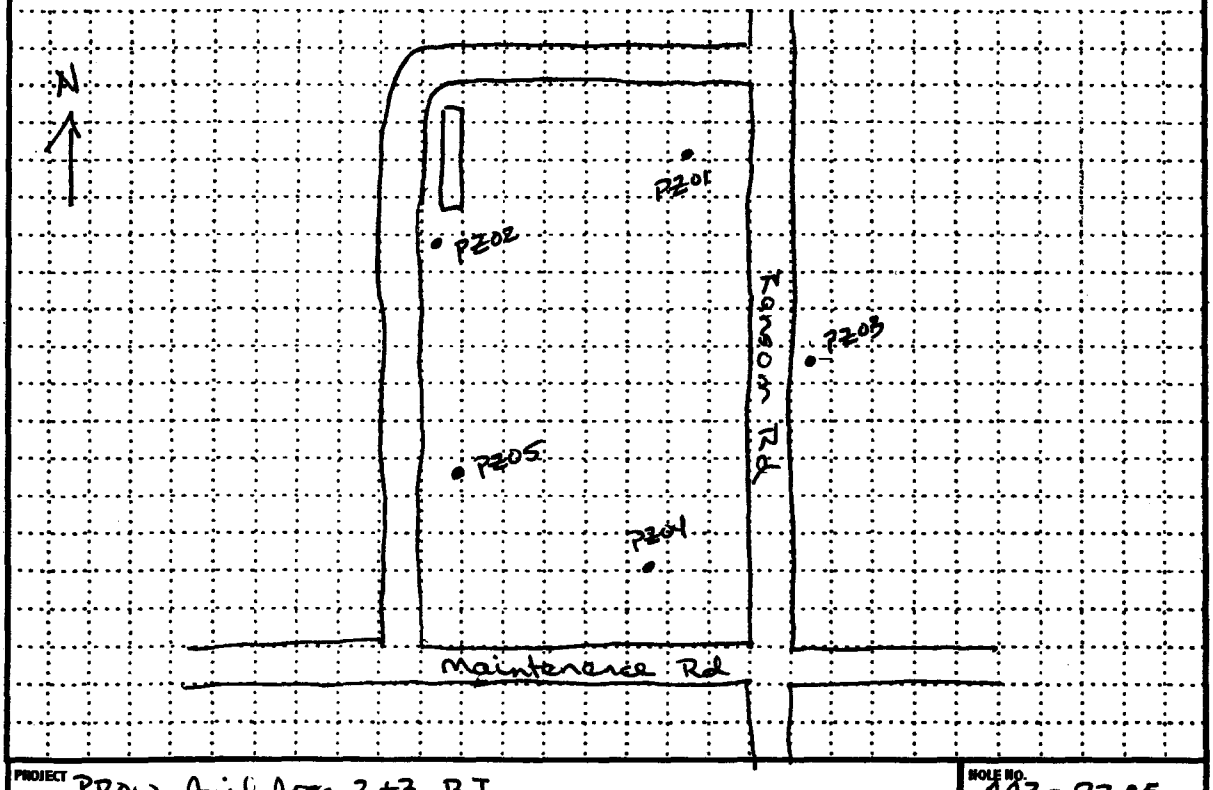
3. PROJECT PBOW - Acid Area 2+3 RI	4. LOCATION AA3-PZ05
5. NAME OF DRILLER Jeremy Lackrone	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Macro core 2"x8"	8. HOLE LOCATION AA3-PZ05 N-624220.053 E-1914500.491
	9. SURFACE ELEVATION 636.17
	10. DATE STARTED 11-4-04 / 11. DATE COMPLETED 11-4-04
12. OVERBURDEN THICKNESS 24.0'	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 24.0'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
1" PVC Piezometer				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT PBOW-Acid Area 2+3 RI | HOLE NO. AA3-PZ05

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ05

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (4)	SCREENED SAMPLE OR CORE BOX NO. (4)	ANALYTICAL SAMPLE NO. (7)	BLOW COUNT (8)	REMARKS (9)
	1	0"-8", OL, organic silt, dark brown (10YR, 3/2) black granular burn material or cinders from 5"-7", firm, moist.					
	2	8"-13", ML, silt, dark brown (10YR, 3/3), firm to stiff, loose, dry to moist					
	3	13"-2.5', ML, clayey silt stiff, low plasticity, dark brown (10YR, 3/3) changing to medium brown (10YR, 4/4) at 2'.					
	4	2.5'-6.2', CL, silty clay, medium brown (10YR, 5/3) firm to stiff, med to low plasticity, moist.					
	5						
	6						
	7	6.2'-16.75, CL, clay medium brown (10YR, 4/4) changing to medium gray (10YR, 4/1) at 8.0', soft to firm, low to medium plasticity, moist to wet					
	8						
	9						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-PZ05

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ05

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SEQUENCE SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	11						
	12						
	13						
	14						
	15						
	16						
	17	16.75 - 19.2, CH, clay light to med gray (10YR, 5/1), soft, medium to high plasticity, wet.					
	18						
	19						
	20	19.2 - 24.0, CL, clay med grey (10YR, 4/1), soft to firm, medium plasticity moist to dry.					

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3 - PZ05

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-PZ05

PROJECT: PBOW - Acid Area 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	GEOTECH SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	21	rock fragments at 20.8' increasing in percentage downward					
	22						
	23						
	24	TD - 24.0 - hit refusal on bedrock at 24.0'					
	25						
	26						
	27						
	28						
	29						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3 - PZ05

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

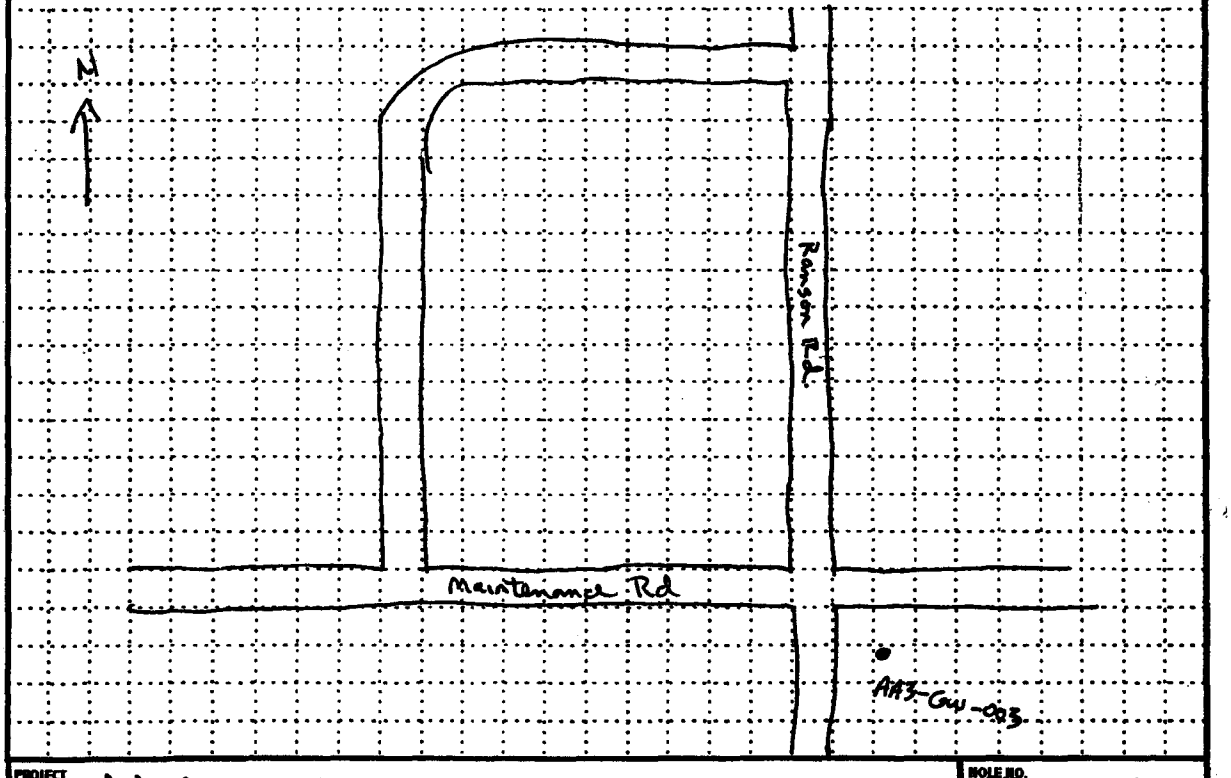
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-GW-003
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / SHEETS	1 OF 4
3. PROJECT	AA3 RI
4. LOCATION	AA3-GW-003
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	CME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	4¼ Augers 2" Split spoon
8. HOLE LOCATION	AA3-GW-003 N-623677.6863 E-1915004.5541
9. SURFACE ELEVATION	635.86
10. DATE STARTED	12-3-04
11. DATE COMPLETED	12-3-04
12. OVERBURDEN THICKNESS	24'
15. DEPTH GROUNDWATER ENCOUNTERED	2.5
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	24'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Installed 2" PVC well				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
Acid Area 2+3 RI	AA3-GW-003

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-003

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (1)	DEPTH (2)	DESCRIPTION OF MATERIALS (3)	FIELD SCREENING RESULTS (4)	MOISTURE SAMPLE OR CORE BOX NO. (5)	ANALYTICAL SAMPLE NO. (6)	BLOW COUNT (7)	REMARKS (8)
		0"-6", OL, organic silt, dark brown (10YR, 3/2), soft to firm, loose, moist	0ppm			2,2,2,2	
	1	6"-9", ML, fine sandy silt, medium brown (10YR 5/3), soft, loose, moist.					
	2	9"-2'-CL, silty clay, medium brown (10YR, 5/3) soft to firm, low plasticity moist.				1,1,4,4	
	3	2'-3.5, ML, silt, soft to firm, loose, medium brown (10YR, 5/3), moist					
	4	3.5-10.25', ML, clayey silt, medium brown (10YR, 4/3), moist, wet at 4.0 feet, soft to firm, low plasticity.				1,1,2,4	
	5						
	6					4,4,6,7	
	7						
	8	color change to medium gray at 8.0' (10YR, 4/1).				4,4,2,2	
	9						
	10						

PROJECT: Acid Area 2+3 R

HOLE NO. AA3-GW-003

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (4)	DEPTH (5)	DESCRIPTION OF MATERIALS (4)	FIELD SCREENING RESULTS (4)	DEPTH/SAMPLE OR CORE RUN NO. (4)	ANALYTICAL SAMPLE NO. (7)	BLOW COUNT (10)	REMARKS (9)
		10.25' - 17', CL, silty clay with small silt lenses, less than 1/8", medium gray (10YR, 4/1) soft to firm, low plasticity, wet.	0ppm			weight of tool, 2,3,4	
	11						
	12					weight of tool, 1,2,1	
	13						
	14					weight of tool, 2,3,2	
	15						
	16					2,3,3,3	
	17	17' - 23', CL/CH, clay, medium gray (10YR, 4/1) soft, medium to high plasticity, wet.					
	18					WT, WT WT, 2	
	19						
	20						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-GW-003

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

* WT, - weight of tool.

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
			0ppm			WT, WT, WT, 2	
	21						
	22					1,5,7,6	
	23	23-24', CL, clay, with rock fragments, olive gray (10YR, 4/6), firm to stiff, low plasticity, moist to dry.					
	24	TD-24'					

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-GW-003

ENG FORM 5056A-R, AUG 94 (Proponent: CEGW-EG)

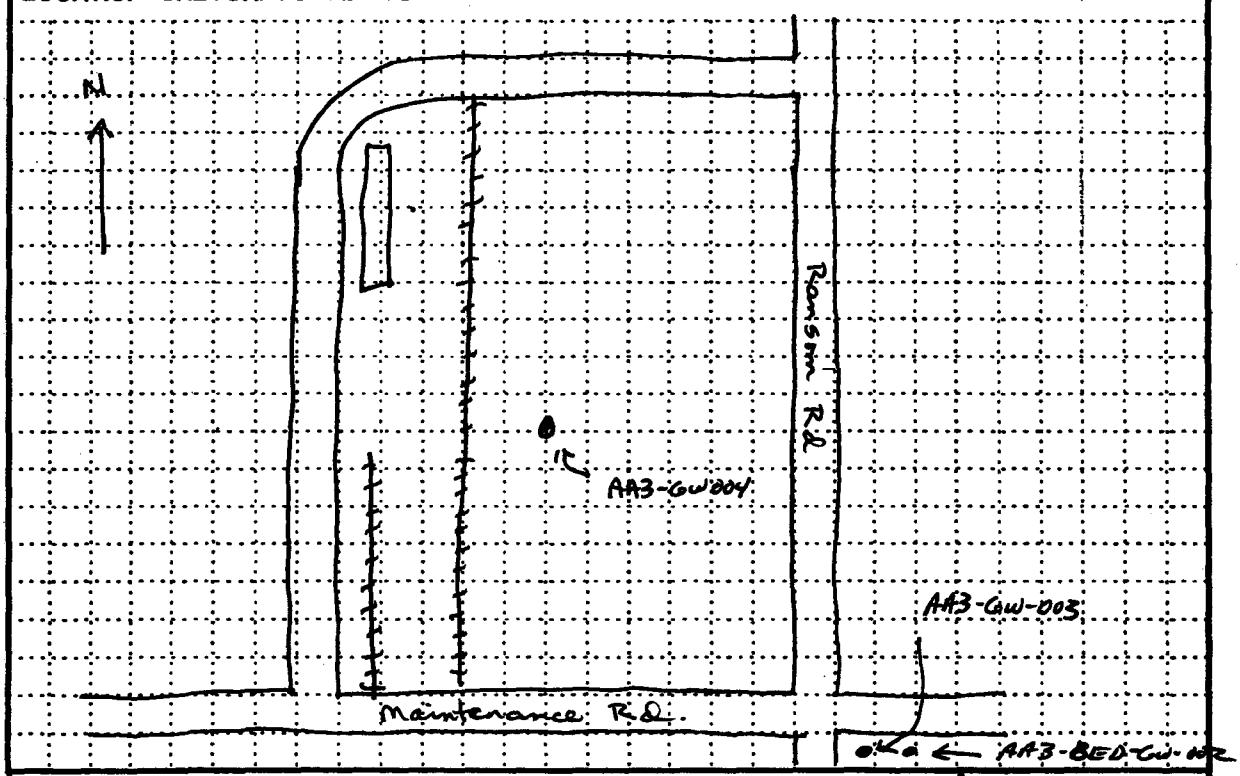
Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-GW-004
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 4
3. PROJECT	Acid Areas 2+3 RI
4. LOCATION	AA3-GW-004
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	CME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	4"ID Hollow Stem Auger; 2" split spoons
8. HOLE LOCATION	AA3-GW-004 N-624497.9775 E-1914651.8770
9. SURFACE ELEVATION	635.97
10. DATE STARTED	12-4-04
11. DATE COMPLETED	12-4-04
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	21'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	None
20. SAMPLES FOR CHEMICAL ANALYSIS	None
VOC	
METALS	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	set 2" PVC well
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	Acid Areas 2+3 RI
HOLE NO.	AA3-GW-004

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-004

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 4 SHEETS

ELEV. (+)	DEPTH (+)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SECTION SAMPLE OR CORE RUN NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		0"-12", OL, organic silt, dark brown (10YR, 3/2), firm, loose, moist	0 ppm			2,3,2,4	
	1	12"-2.25', ML, clayey silt, medium brown (4/3, 10YR), firm, low plasticity, moist					
	2	2.25'-4.5', ML, silt, medium brown (10YR, 5/3) soft to firm, loose, moist. moist to wet at 3.5'				3,3,4,6	
	3						
	4					3,3,6,4	
	5	4.5'-7.5', CL, silty clay, with numerous silt lenses 1/8" to 1/4" thick, medium brown (10YR, 5/3), soft to firm, low plasticity, moist to wet. gradual change to medium gray (10YR, 5/1) from 6.5' to 7.5'					
	6					2,3,2,2	
	7						
	8	7.5'-8.5', CL/CH, clay, medium gray (10YR, 5/1) soft, medium ~~plas~~ AER to high plasticity, wet.				2,3,5,4	
	9	8.5'-10', ML, clayey silt, with silt partings, medium gray (10YR, 5/1) soft to firm low plasticity moist to wet.					
	10						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-GW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV. (c)	DEPTH (b)	DESCRIPTION OF MATERIALS (e)	FIELD SCREENING RESULTS (d)	REPRESENTATIVE SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		10'-11', CL/CH, clay medium brown (10YR, 5/1) soft, medium to high plasticity, wet.	0ppm			WT, WT, 2, 3	
	11	11'-15.5', CL, silty clay with silt partings medium gray (10YR, 5/1) soft, low plasticity, wet.					
	12	silt lenses 1/2" thick at 14.5'				WT, 2, 3 3	
	13	decreasing silt partings from 14.5' down					
	14					3, 4, 4, 3	
	15						
	16	15.5'-21' CL/CH, clay medium brown (10YR, 5/1) soft to firm, medium to high plasticity, moist to wet.				WT, 1, 3, 2	
	17	silt parting at 17.0'					
	18						
		rock fragments at 18.75'				2, 3, 3, 2	
	19	augered to 19' only splitspoon sampled to TD from 19' on.					
	20						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-GW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

WT - weight of tool

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 4 OF 4 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		increasing rock fragments moist to dry.	0ppm ↓			6, 7 20' to 21'	
	21	TD - 21' near bedrock surface					
	22						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-GW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CEOR-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

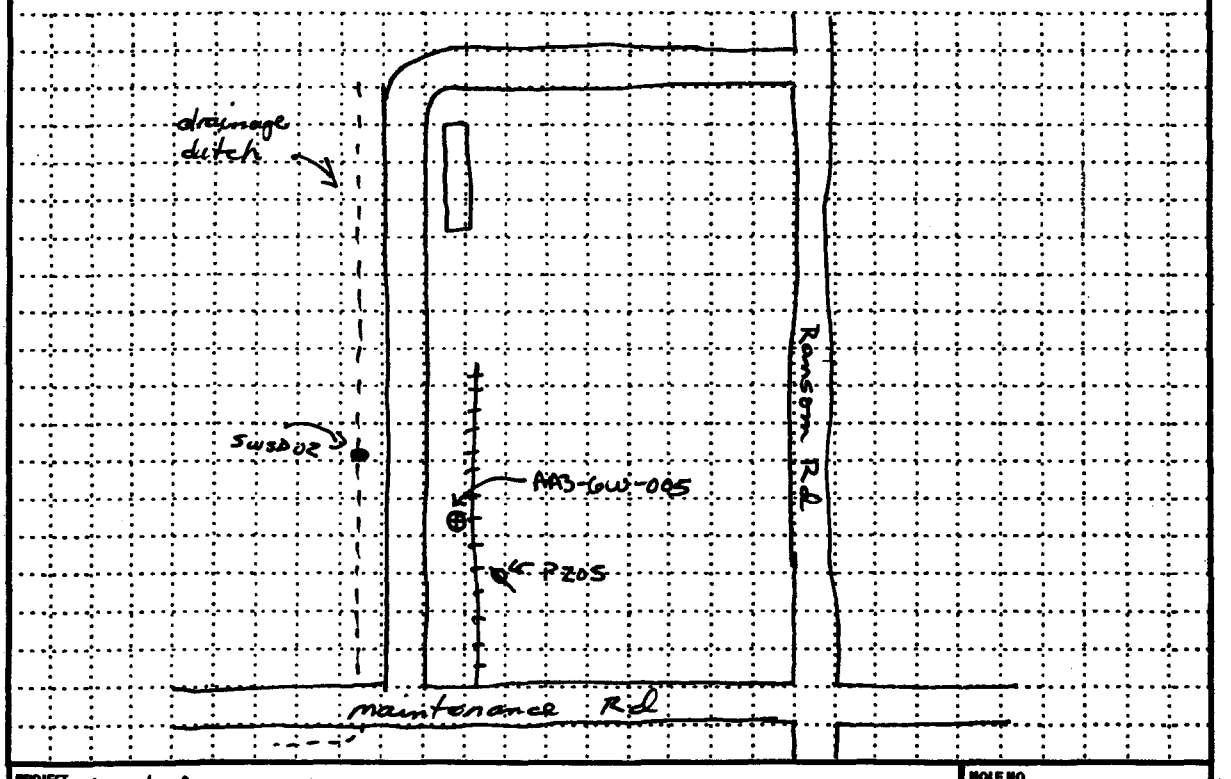
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-GW-005
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1
3. PROJECT	Acid Areas 2+3 RI
4. LOCATION	PBOW - Acid Area 3
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	CME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	4 1/4" hollow stem auger; 2" split spoon
8. HOLE LOCATION	AA3-GW-005 N-624311.3158 E-1914463.4575
9. SURFACE ELEVATION	~~638.31~~ NFH 636.24
10. DATE STARTED	12-6-04
11. DATE COMPLETED	12-6-04
12. OVERBURDEN THICKNESS	est at 24'-25'
15. DEPTH GROUNDWATER ENCOUNTERED	4.5'
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	19'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
set 2" PVC well				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
Acid Areas 2+3 RI	AA3-GW-005

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-005

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 2 OF SHEETS

ELEV. (4)	DEPTH (5)	DESCRIPTION OF MATERIALS (6)	FIELD SCREENING RESULTS (7)	GEOTECH SAMPLE OR CORE RUN NO. (8)	ANALYTICAL SAMPLE NO. (9)	BLOW COUNT (10)	REMARKS (11)
		0"-2", OL, organic silt, dark brown (10YR, 2/1), soft loose, moist to wet.				1,3,2,4	
	1	2"-9", coal fragments, black, loose, coarse.					
		9"-12", ML, silt, medium brown (10YR, 4/3), soft, loose, moist to wet.					
	2	1'-2', ML, clayey silt, firm, low plasticity, moist, medium brown (10YR, 4/4).				5,4,8,9	
	3	2'-3', ML, clayey silt with silt lenses 1"-2" thick, medium brown (10YR, 4/3), soft to firm, loose, moist.					
	4	3'-3.5, ML, silt, medium brown (10YR, 4/3) soft, loose, moist to dry				4,6,7,5	
	5	3.5'-6.0', ML, clayey silt, medium brown (10YR, 4/3), firm to soft, low plasticity, moist to dry. wet at 4.5'.					
	6	6.0'-12', CL, silty clay, with few silt partings, medium brown (10YR, 4/3), soft to firm low plasticity, wet.				3,5,6,6	
	7	change in color to medium gray (10YR, 5/1) at 7.75'					
	8					1,2,4,4	
	9						
	10						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-GW-005

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-GW-005

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (ft)	FIELD SCREENING RESULTS (ft)	GEOTECH SAMPLE OR CORE BOX NO. (ft)	ANALYTICAL SAMPLE NO. (ft)	BLOW COUNT (ft)	REMARKS (ft)
						4,5,4,6	
	11						
	12	12'-19', CH, clay medium gray (10YR,5/1) soft, medium to high plasticity, moist to wet				3,4,5,6	
	13						
	14					4,4,5,7	
	15						
	16						
	17						
	18						
	19	TD - 19'					
	20						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-GW-005

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

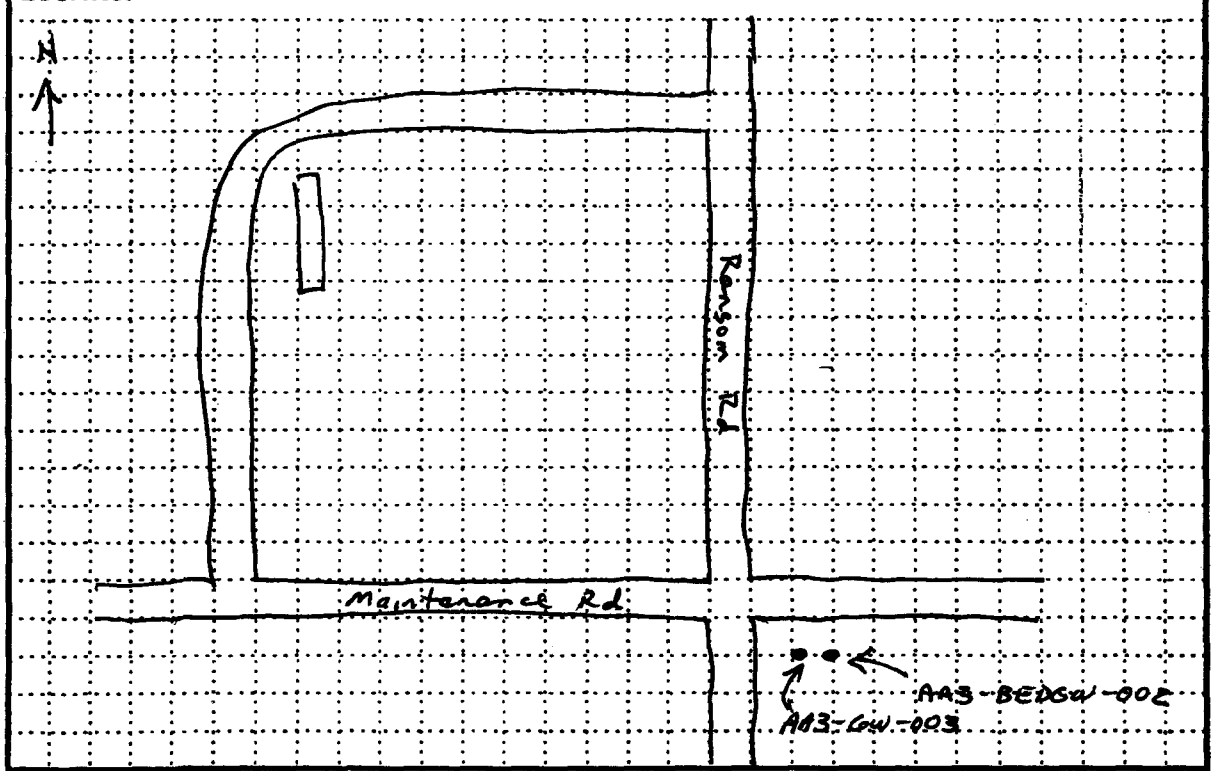
DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-BEDGW-002
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / OF SHEETS	1 OF 7
3. PROJECT	Acid Area 2+3 RI
4. LOCATION	AA3-BEDGW-002
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	CME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8"/4 hollow stem Augus 6" steel surface casing 4" casing to 40' using 5 7/8 roller bit. Used 3 7/8" core bit from 41' - 56'
8. HOLE LOCATION	AA3-BEDGW-002 N-623679.9571 E-1915019.2792
9. SURFACE ELEVATION	~~TBD~~ 635.91
10. DATE STARTED	12-3-04
11. DATE COMPLETED	12-16-04
12. OVERBURDEN THICKNESS	24'
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	32'
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	56'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None			4

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
None						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Set 2" PVC well				Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	HOLE NO.
Acid Area 2+3 RI	AA3-BEDGW-002

Figure 5-1

14.6
3.7
10.9

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-002

PROJECT: Acid Areas 2+3

INSPECTOR:

SHEET 2 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE FOR LOG. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
			0 ppm				
	1					N/A	
						Augured	
	2	see log for AA3-GW-003					
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-002

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 3 OF 7 SHEETS

ELEV. (+)	DEPTH (m)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	REPRESENTATIVE SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
			0ppm				
	11						
	12	see log for AA3-GW-003					
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-002

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 4 OF 7 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SEVERED SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	21	see log for AA3-GW-003	0ppm				
	22						
	23						
	24	24'-27', Augered to set 4" ~~ea~~ surface casing - no descriptions					
	25	Plum Brook Shale					
	26						
	27	27'-38', limestone, shaly, with liney shale, well consolidated, not fridolle, medium gray, very fine laminae throughout, laminae are dark gray-shaly.		core box #1 27'-35'			
	28						
	29						
	30						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-002

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 5 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE OR CORE RUN NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	31			core box #1 27'-35'			
	32						
	33						
	34						
	35			core box #2 35'-40'			
	36						
	37						
	38	38'-56', Limestone, massive, fossiliferous, petroliferous, stylolites, light gray with light tan. Delaware Limestone					
	39						
	40						

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDOW-002

PROJECT: PBOW - Acid Areas 2+3 RI

INSPECTOR:

SHEET 6 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	DISTURB. SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
				ream hole 1" after setting 4" casing			
	41			core box #3 41'-51'			
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDOW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-002

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 7 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	DISTURB. SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
				core box #3			
	51						
	52			core box #4 51'-56'			
	53						
	54						
	55						
	56	TD - 56'					
	57						
	58						
	59						
	10						

PROJECT: PBOW - Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-002

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

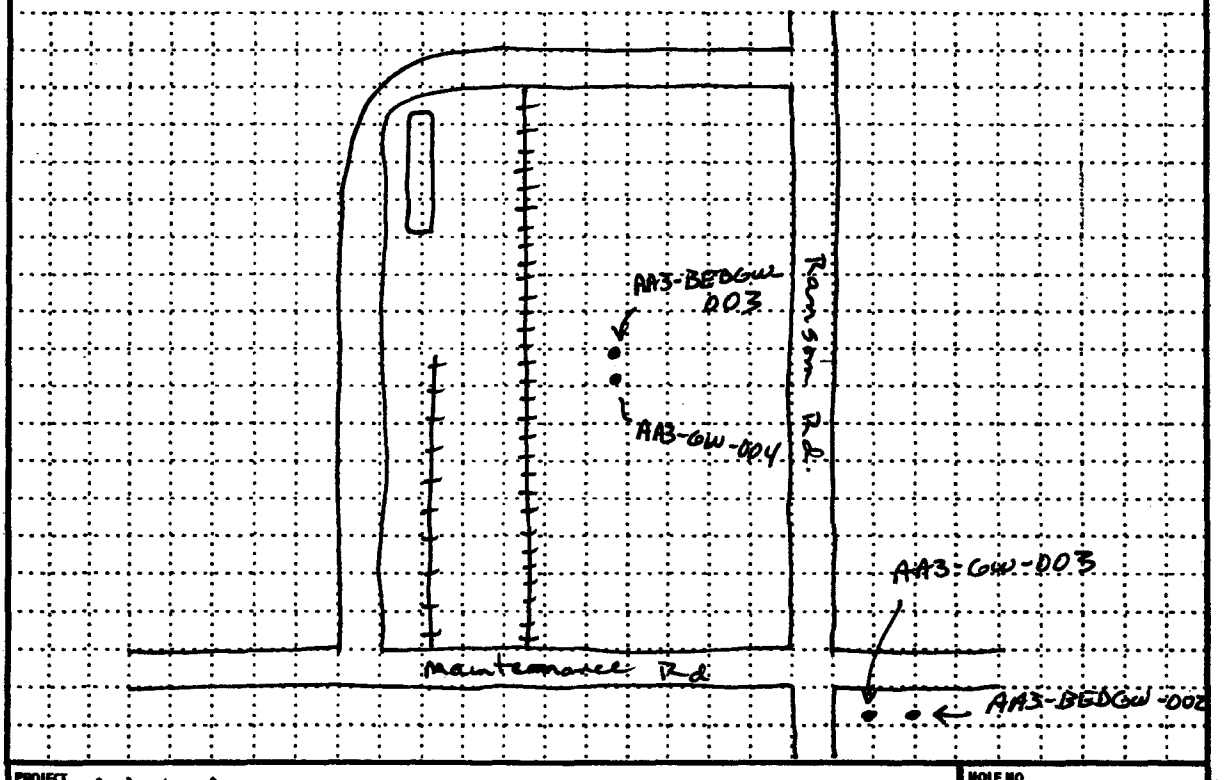
Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-BEDGW-003
1. COMPANY NAME	Jacobs Eng.
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET / SHEETS	1 OF 7
3. PROJECT	Acid Areas 2+3 RI
4. LOCATION	AA3-BEDGW-003
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	CME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8 1/4" hollow stem 6" steel surface casing 5 7/8" roller bit to 35' after coring set 4" steel casing 3 7/8 core bit from 36' - 51'
8. HOLE LOCATION	N-624612.9214 E-1914651.507 AA3-BEDGW-003
9. SURFACE ELEVATION	635.92
10. DATE STARTED	12-4-04
11. DATE COMPLETED	12-17-04
12. OVERBURDEN THICKNESS	21'
13. DEPTH DRILLED INTO ROCK	30'
14. TOTAL DEPTH OF HOLE	51'
15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	4
20. SAMPLES FOR CHEMICAL ANALYSIS	None
VOC	
METALS	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	set 2" PVC well
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	Acid Areas 2+3 RI
HOLE NO.	AA3-BEDGW-003

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BED6W-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 2 OF 7 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (a)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
			0ppm				
	1	see log for AA3-6W-004				N/A Augered	
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BED6W-003

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BED6W-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
			0ppm				
	11	see log for AA3-GW-004					
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BED6W-003

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EQ)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-003

PROJECT: Acid Areas 2+3 RI | INSPECTOR: | SHEET 3 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		see log for AA3-GW-004					
	21	21'-24', bedrock, no recovery - augured to refusal to set surface casing upper portion of Plum Brook Shale					
	22						
	23						
	24	24'-32'.5, Shaly Limestone, with Limy shale, well consolidated, ~~friable~~ not friable, medium gray, very fine laminae through out laminae are darker gray Plum Brook Shale		core box #1 24'-30', 9"			
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: Acid Areas 2+3 RI | HOLE NO. AA3-BEDGW-003

ENG FORM 5056A-R, AUG 94 (Proponent: CEOR-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BED6W-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 5 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
				core box #1			
	31	friable shale layer from 30', 9" to 31', 1" darker gray		core box #2 30', 9" - 35'			
	32	friable shale layer from 31', 7" to 31', 9"					
		32', 5" - 51', Limestone Dolomite Limestone, massive, fossiliferous, petroliferous, stylolites throughout, light gray with light tan areas					
	33						
	34						
	35			reamed hole 1' below 4" casing			
	36			core box #3 36'-45'			
	37						
	38						
	39						
	40						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BED6W-003

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-003

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 6 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
				core box #3 30'-45'			
	41						
	42						
	43						
	44						
	45			core box #4 45'-51'			
	46						
	47						
	48						
	49						
	50						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-003

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-003

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 7 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
				Core box #4 45'-51'			
	51	TD - 51'					
	52						
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	60						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-003

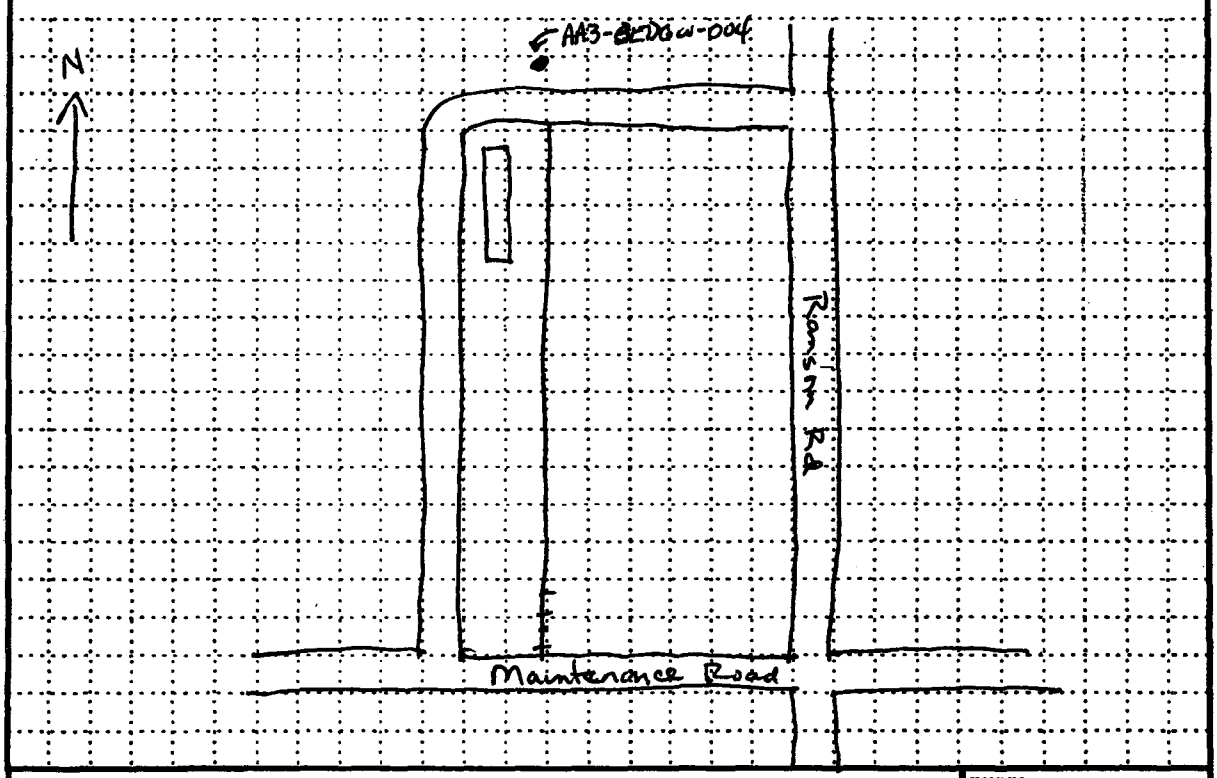
ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

DISTRICT	USACE - Nashville
HOLE NUMBER	AA3-BEDGW-004
1. COMPANY NAME	Jacobs Eng
2. DRILLING SUBCONTRACTOR	Frontz Drilling
SHEET	1 OF 9 SHEETS
3. PROJECT	Acid Areas 2+3 RI
4. LOCATION	AA3-BEDGW-004
5. NAME OF DRILLER	Rob Hamilton
6. MANUFACTURER'S DESIGNATION OF DRILL	BME 75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8 1/4" hollow stem auger 2" split spoon 6" surface casing 3 7/8" roller bit after coring to 34.5 set 4" casing 3 7/8" core bit from 34.5 to 75.5'
8. HOLE LOCATION	N-625570.6443 E-1914523.5696 AA3-BEDGW-004
9. SURFACE ELEVATION	636.21
10. DATE STARTED	12-5-04
11. DATE COMPLETED	12-14-04
12. OVERBURDEN THICKNESS	25.25'
13. DEPTH DRILLED INTO ROCK	50.25'
14. TOTAL DEPTH OF HOLE	75.5'
15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	None
DISTURBED	
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	5
20. SAMPLES FOR CHEMICAL ANALYSIS	None
VOC	
METALS	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY	%
22. DISPOSITION OF HOLE	open hole
BACKFILLED	
MONITORING WELL	
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Al Hardesty

LOCATION SKETCH/COMMENTS SCALE:



PROJECT	Acid Area 2+3 RI
HOLE NO.	AA3-BEDGW-004

Figure 5-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Area 2+3 RI

INSPECTOR:

SHEET 2 OF 9 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		0"-6", OL, organic silt, dark brown (10YR, 3/2), soft to firm, loose, moist.	0 ppm			3,2,4,3	
	1	6"-2.5', ML, clayey silt, firm, loose, low plasticity, dry. medium brown (10YR, 4/3)					
	2					11,36,26 34	
	3	2.5'-2.75', ML, silt medium brown (10YR, 5/3) soft, loose, dry.				—	
	4	2.75'-3.5', concrete and rubble, gravel, loose on top, hard concrete at bottom.					
		3.5'-4.0'-OL, organic silt, dark brown (10YR, 3/2), firm, loose, dry.				8,5,5,9	
	5	4.0'-6.0', ML, clayey silt, firm to stiff, low plasticity, dry to moist, medium brown (10YR, 4/3)					
	6	6.0'-7.25', ML, silt, no clay, soft to firm, very loose, dry to moist, medium brown (10YR, 5/4)				4,5,5,8	
	7						
	8	7.25'-8.25', ML, clayey silt, medium brown (10YR, 4/3), firm to stiff, low plasticity, dry to moist.				2,3,2,3	
	9	8.25-8.5', ML, silt w/ very fine sand, medium brown (10YR, 5/4), soft, loose, dry to moist.					
	10	8.5'-9.75', ML, clayey silt, with silt lenses 1/2" to 1" thick, medium					

PROJECT: Acid Area 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 3 OF 9 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		brown (10YR, 4/3), firm, low plasticity, dry to moist				2,4,5,7	
	11	9.75' - 19.5', CL, clay, medium gray (10YR, 5/1), soft, medium plasticity, moist to wet, small silt partings throughout, 1/8" or less in thickness.					
	12	increasing plasticity at 12.0' - 15.0'				4,5,5,5	
	13						
	14					3,4,4,5	
	15						
	16					WT, WT WT, 2	
	17	no silt partings from 17' - 19.5'					
	18					3,3,3,4	
	19						
	20	19' - 24.9, CH, Clay, med. gray (10YR, 5/1), soft					

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 4 OF 9 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	PROTECTIVE SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
		high plasticity, wet.				6,5,4,4	
	21						
	22					4,4,4,4	
	23						
	24	rock fragments at 24' increasing in percentage down wards				2,3,4,7	
	25	dry at 24.9'					
		25.25 - 27' Augured hole for surface casing no desciptions					
	26	Plum Brook Shale					
	27	27' - 29.75', Shaly limestone, well consolidated, numerous laminae. Plum Brook Shale, med to dark gray.		core box #1 27' - 34.5'			
	28						
	29						
	30	29.75 - 35.5', Limestone					

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 5 OF 9 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		massive, fossiliferous, petroliferous, stylolites throughout, light gray to light tan. Delaware Limestone					
	31			core box #1 27'-34.5'			
	32						
	33						
	34						
	35			reamed hole after setting 4" casing			
	36						
	37			core box #2 36'-45.5'			
	38						
	39						
	40						

PROJECT: Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 6 OF 9 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	41						
	42			core box #2			
	43			36' - 45.5'			
	44						
	45						
	46						
	47			core box #3			
	48			45.5' - 55.5'			
	49						
	50						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 7 OF 9 SHEETS

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (ft)	FIELD SCREENING RESULTS (ft)	DISPOSITION SAMPLE OR CORE BOX NO. (ft)	ANALYTICAL SAMPLE NO. (ft)	BLOW COUNT (ft)	REMARKS (ft)
	51						
	52			core box #3			
	53			45.5'-55.5'			
	54						
	55						
	56			core box #4			
	57			55.5'-65.5'			
	58						
	59						
	60						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 8 OF 9 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	MONITOR SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	61						
	62			Core box #4 55.5' - 65.5'			
	63						
	64						
	65						
	66			Core box #5 65.5' - 75.5'			
	67						
	68						
	69						
	70						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: AA3-BEDGW-004

PROJECT: Acid Areas 2+3 RI

INSPECTOR:

SHEET 9 OF 9 SHEETS

ELEV. (+)	DEPTH (ft)	DESCRIPTION OF MATERIALS (+)	FIELD SCREENING RESULTS (+)	SAMPLE OR CORE BOX NO. (+)	ANALYTICAL SAMPLE NO. (+)	BLOW COUNT (+)	REMARKS (+)
	71						
	72			CORE BOX #5 65.5'-76.5'			
	73					—	
	74						
	75						
	76	TD - 75.5'					
	77						
	78						
	79						
	80						

PROJECT: PBOW - Acid Areas 2+3 RI

HOLE NO. AA3-BEDGW-004

ENG FORM 5056A-R, AUG 94 (Proponent: CEOW-EG)

Figure 5-1 (continued)

HTRW DRILLING LOG

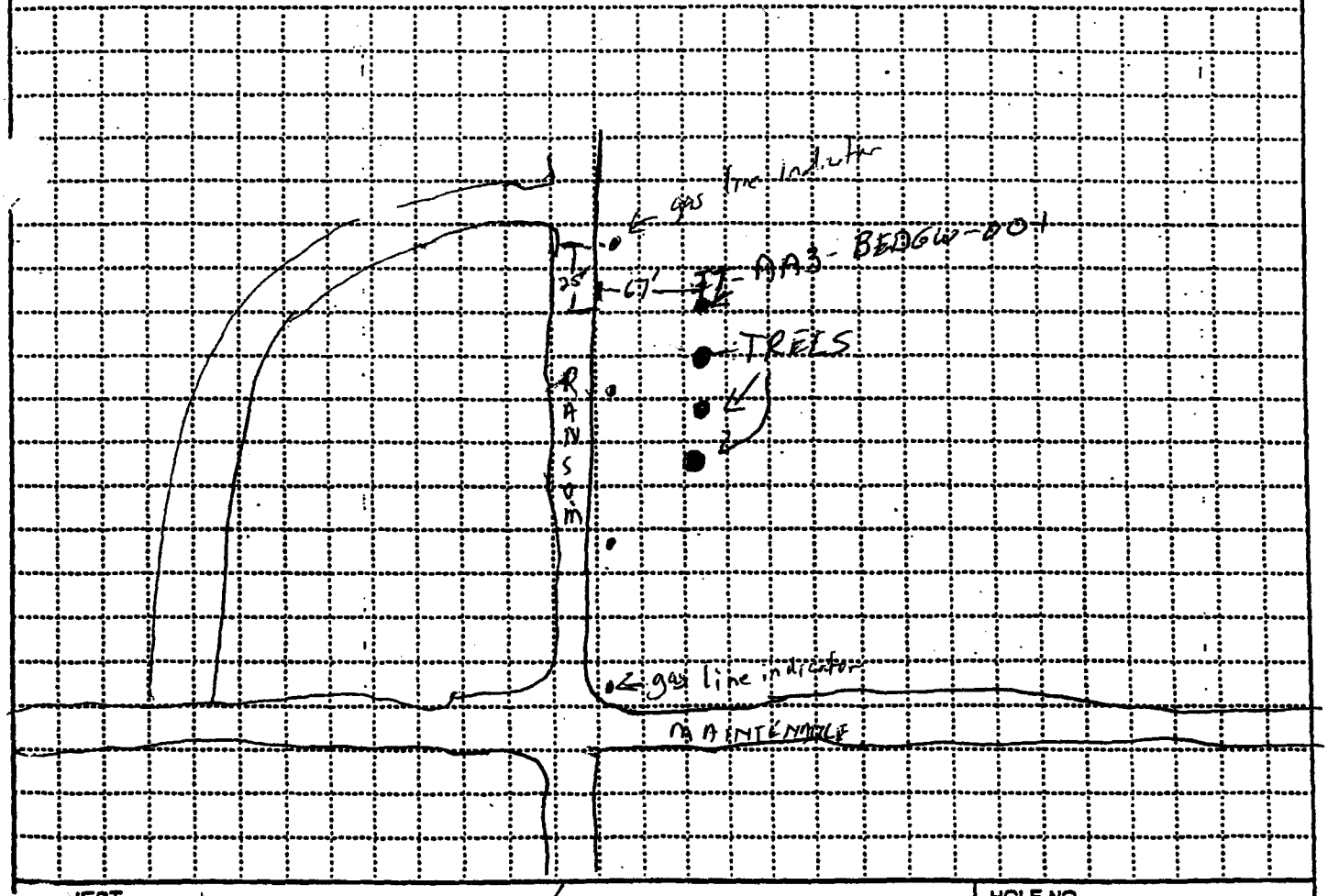
DISTRICT: USACE / Nashville		HOLE NUMBER: IT-AA3-BEDGW-001
1. COMPANY NAME: IT Corp	2. DRILL SUBCONTRACTOR: Belasco Drilling	SHEET 1 OF 7 SHEETS
3. PROJECT: AA3 / Plum Brook Ordnance Works	4. LOCATION: Sandusky, Ohio	
5. NAME OF DRILLER: Allen Dudley	6. MANUFACTURER'S DESIGNATION OF DRILL: Diedrich D-120	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Diedrich D-120 drilling; 12.25" ID HSA, 9"x3" split spoon sampler; 140 lb hammer; 10" & 6" Roller Cone Bit; 3" x 10' Core Barrel	8. HOLE LOCATION: N=625030.61, E=1914957.28 See sketch	
	9. SURFACE ELEVATION: 634.10 Ft. ~~635.0~~ / (From Topo) DKK	
	10. DATE STARTED: 9/6/97	11. DATE COMPLETED: 10-5-97
12. OVERBURDEN THICKNESS: 25.9'	15. DEPTH GROUNDWATER ENCOUNTERED: 11.0' (Overburden) / w 44.0 Bedrock	
13. DEPTH DRILLED INTO ROCK: 28.1	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 20.00 on 10-7-97	
14. TOTAL DEPTH OF HOLE: 54.0	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
2	X		1

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Greg Buckner / Ed Karvevsky

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



JECT	HOLE NO.
AA3 / Plum Brook Ordnance Works	IT-AA3-BEDGW-001

NG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NUMBER: GW-001

PROJECT: Plum Brook Ordnance Works

INSPECTOR: G. Buckner

SHEET 2 OF 2 SHEETS 7

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	634.9	Grassy Surface 0.25'	Hnu		Blow Count	Sample thru 4 1/4" ID augers using 2" ID split spoon - (07:50)
634.0	1	Silt br-dk sl dmp low plasticity ML	PID 26ppm		1/3 3/3	Run 2.0 Rec 1.0 Loss 1.0
	2					Auger to 2' 2.0
632.3		2.7' Gravel (Ls) Float wea dry, wht-gr, sd GW 3.1	PID 12ppm		3/4 26/17	Run 2.0 Rec 1.5 Loss 0.5
631.9	3	Cly-Silt (80%) br(orangish) + gr sl dmp mottled, low plastcity ML				
	4					Auger to 4' 4.0
	5		PID 14ppm		3/3 3/5	Run 2.0 Rec 1.3 Loss 0.7
629.0	6	(cl ~35%) 6.0' Becoming more clayey				Auger to 6' 6.0
	7	ML	PID 22ppm		2/2 3/3	Run 2.0 Rec 1.5 Loss 0.5
627.0	8	(cl ~10%) 8.0 Decreasing cl content		8.0		Auger to 8' 8.0
626.0	9	ML	PID 8ppm	Geotech Sample ~~IAK~~ Sample # IT-AA3-BED GW-001 8'-10'	2/3 3/7	Run 2.0 Rec 2.0 Loss 0.0
	10			10.0		Auger to 10' 10.0

PROJECT: AA3 / Plum Brook Ordnance Works

HOLE NO.: IT-AA3-BED0W-001

HTRW DRILLING LOG

HOLE NUMBER: GW-001

PROJECT: AA3 \ PlumBrook Ordnance Works

INSPECTOR: G. Buckner

SHEET 3 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
624.9		Cly-silt (85%) gr, homogeneous mst cl ~ 15% soft ML				
	11	11.0 Saturated	PID 0 ppm	-	2/3 2/2	Run 2.0 Rec 2.0 Loss 0.0
	12					Auger to 12' 12.0
	13		PID 6 ppm		2/3 2/2	Run 2.0 Rec 1.9 Loss 0.1
	14					Auger to 14' 14.0
620.6		14.4				
	15	Cly-silt gr, med plasticity clay ~ 25% soft ML	PID 2 ppm		0/1 2/3	Run 2.0 Rec 1.7 Loss 0.3
619.1	16	15.9				Auger to 16' 16.0
	17	Cly-silt ~ clay ~ 15% sl dmp soft gr, homogeneous ML			NA	Run 2.0 Rec. 0.0 Loss 2.0 missed 2' of sampl
	18					Auger to 18' 18.0
	19		PID 0 ppm		2/2 2/3	Run 2.0 Rec. 2.0 Loss 0.0
	20					Auger to 20' 20.0

PROJECT: AA3 \ Plum Brook Ordnance Works

HOLE NO.: FT-AA3-BED6W-001

HTRW DRILLING LOG

HOLE NUMBER: GW-001

PROJECT: PlumBrook Ordnance Works | INSPECTOR: G. Buckner | SHEET 4 OF 4 SHEETS 7

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
614.9		Clay-Silt, sof cl ~15% gr, homogenous sl dmp 20.8 V soft	PID: 0ppm		1/2 2/2	Run 2.0 Rec. 2.0 Loss 0.0
	21					
	22			22.0		Auger to 22' 22.0
		22.8		Geo tech Sample ~~SAB~~ 2 sample # IT-AA3-BEDGW-001 22'-24'	2/3 3/10	Run 2.0 Rec 2.0 Loss 0.0
612.2	23	Clay ~(90%) Silt ~(10%) Stiff gr, homogenous med plasticity CL	PID 2ppm			
611.0	24	24.0		24.0		Auger to 24' 24.0
		Clay med plasticity Very stiff CL sl dmp fine gravels (well rounded) present, s	PID 6ppm		2/23 26/50/5"	Run 1.9 Rec 1.9 Loss 0.1
	25	25.5				
609.5		Clay, med plasticity, v st, sl dmp, gr, fine + coarse gravels present CL 25.9				
609.1	26	Spoon refusal on bedrock				Auger to 26' 26.0 Auger refusal at 26', (0958) - Begin Polling 4 1/4" ID augers -
	27	Shale moderately weathered soft - to moderately hard damp GREY				Continue by ED KAWESKY
	28					
	29					
	30					

PROJECT: AA3 \ PlumBrook Ordnance Works | HOLE NO. IT-AA3-BEDGW-001

HTRW DRILLING LOG

HOLE NUMBER: IT-AA3-BEDGW-001

PROJECT: Plum Brook Ordnance | INSPECTOR: ED Kanesky | SHEET 5 OF 5 SHEETS 7

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		SHALE				
		Moderately weathered				
		soft- to moderately hard				
	31	grey				
		damp				
	32					
	33					
		~~siltstone~~ limestone				
		moderately weathered				
		grey, moderately hard				
	34	moist				
		~~Siltstone~~ Limestone				
		slightly weathered				
	35	soft- to moderately hard				
		grey				
		dry				
	36					
	37					
	38					
	39					

PROJECT: AA3 / Plum Brook Ordnance Works | HOLE NO. IT-AA3-BEDGW-001

HTRW DRILLING LOG

HOLE NUMBER: IT-AA3-BEDGW-001

PROJECT: Plum Brook Ordnance | INSPECTOR: ED KANEVSKY | SHEET 6 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		~~Siltstone~~ Limestone moderately wheathered soft-to moderately hard grey dry				Start 1530. Finish 1720 100% RECOVERY
	41					
	42					
	43					
	44	~~Siltstone~~ Limestone slightly-moderately wheathered soft-moderately hard grey wet				Start 0945 Finished 1000 100% RECOVER
	45					
	46					
	47					
	48					
	49					

PROJECT: AA3 / Plum Brook Ordnance Works | HOLE NO. IT-AA3-BEDGW-001

HTRW DRILLING LOG

PROJECT Plum Brook Ordnance Works	INSPECTOR Ed Kamenisky	HOLE NUMBER IT-AA3-BEDGW-001
		SHEET 1 OF 7 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		~~Siltstone~~ Limestone moderately weathered ~~too~~ soft to moderately hard grey wet				
	51					
	52					
	53					
	54					
		BOH @ 54				
	55					
	56					
	57					
	58					
	59					

PROJECT AA3 / Plum Brook Ordnance Works

HOLE NO. IT-AA3-BEDGW-001

HTRW DRILLING LOG

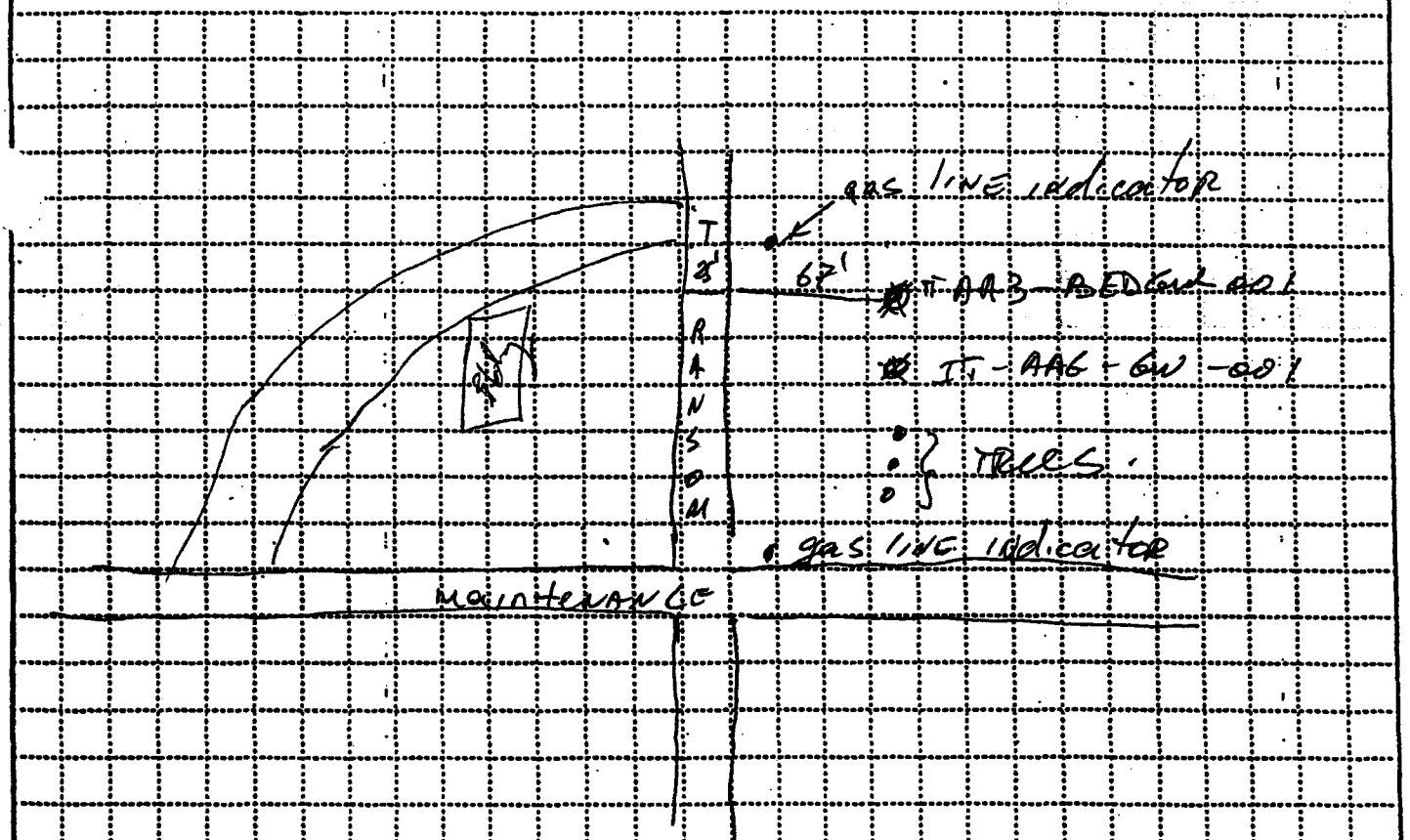
DISTRICT: USACE / Nashville	IT AA3-GW-002	HOLE NUMBER
1. COMPANY NAME: IT Corp	2. DRILL SUBCONTRACTOR: Belasco Drilling	SHEET 1 OF 3 SHEETS
3. PROJECT: AA3 / Plum Brook Ordnance Works	4. LOCATION: Sandusky, Ohio	
5. NAME OF DRILLER: Allen Dudley / Greg Conrad	6. MANUFACTURER'S DESIGNATION OF DRILL: Diedrich 50	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Diedrich 50, 8.25" HSA, 2" x 2' S.S. Split Spoon, 140 lb Hammer	8. HOLE LOCATION: N = 625027.71 E = 1914956.35 See sketch	
	9. SURFACE ELEVATION: 634.10 Ft. ~~635.0 (From Topo)~~ DKK	
	10. DATE STARTED: 9/18/97	11. DATE COMPLETED: 9/18/97
12. OVERBURDEN THICKNESS: unknown	15. DEPTH GROUNDWATER ENCOUNTERED: ~8.0	
13. DEPTH DRILLED INTO ROCK: None	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 5.75 on 10/4/97	
14. TOTAL DEPTH OF HOLE: 17.0	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
3	X		NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
						NA

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Greg Buckner / Ed Krumsky

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT: AA3 / Plum Brook Ordnance Works — HOLE NO. IT-AA3-GW-002

HTRW DRILLING LOG

PROJECT: IT CORP Plum Brook Ordnance Works | INSPECTOR: Ed Kanensky | IT-AA | HOLE NUMBER: GW-002 | SHEET 2 OF 2 SHEETS 3

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
	1	Top soil Silty sand Black dry Loose	HNU ppm Ø	2 6 6 8		10% recovery
	2					
	3	Silty Clay Low plasticity Medium dense Brown ~~damp~~ slightly damp	2 ppm	2 3 14 13		50% recovery
	4				4.0'	
	5	Clayey silt Medium plasticity Loose Yellowish brown moist	4 ppm	2 3 5 6	Geotech sample Sample # IT-AA3-GW-002 4'-6' 9-12-97	100% recover
	6				6.0	
	7	Clayey silt Medium plasticity Yellowish brown Loose moist	2 ppm	2 3 1 4		
	8				8.0'	
	9	Clayey silt Medium plasticity Some fine sand Yellowish brown Loose saturated	4 ppm	2 2 4 5	Geotech sample Sample # IT-AA3-GW-002 8'-10'	50% recover water table at 10'

PROJECT: Plum Brook Ordnance Works | HOLE NO. IT-AA3-GW-002

HTRW DRILLING LOG

HOLE NUMBER IT-AA3-GW-002

PROJECT

INSPECTOR

SHEET 3 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	REMARKS (g)
		Silty sand Fine Loose Low plastisity Yellowish Brown wet	2 ppm	4 4 4 4		50% recovery
	11					
	12	Clayey silt medium plastisity Grey Saturated	10 ppm	1 1 2 3	12' Geotech sample sample IT-AA3-GW-002 12'-14'	90% recovery
	13					
	14	Same as above	2 ppm	1 2 3 4	14'	100% recovery
	15					
	16					
	17	BOH @ 17				
	18	BOH @ 18'				
	19					

PROJECT

HOLE NO. IT-AA3-GW-002

APPENDIX G

Appendix G
Well Sealing Reports

DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155459

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)

Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/2 miles (n, e, s, w) west of Campbell St. or Patrol Rd (N) (nearest intersection)

on the South (n, e, s, w) side of Patrol Rd (road name)

Location of Well in either: State Plane N ☑ S ☐ X 623550.83 +/- ____ ft. or m Y 1908693.25 +/- ____ ft. or m

OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 644.43 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AAZ-PZ-01 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 4/21/05

Depth of Well 19' Static Water Level 3.8'

Size of Casing 1" PVC Length of casing 20.7'

Well Condition Good, sand filterpack from 20.7' to 6" bgs. Bentonite chips from 0"-6" (surface seal)

SEALING PROCEDURE

Method of Placement tremie grout from bottom up - removed all casing

Placement:	From	To	Sealing Material	Volume
	0	19'	bentonite-slurry grout	6 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good

Perforations: From 9' To 19'
From ____ To ____

Date Sealing Performed 4/21/05

Reason(s) for Sealing temporary monitoring well / piezometer - investigation completed.

CONTRACTOR

Name Frontier Drilling ODH Registration # 120

Address 2031 Millersburg Rd.

City/State/Zip Wooster, OH 44691

Signature Al Hardesty - Jacobs Eng (customer)

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155460

LOCATION

County: Erie Township: Oxford Circle One or Both Section/Lot Number:
Owner/Builder (Circle One or Both): Plum Brook Station

Address of Well Location: 6100 (Number) Columbus Ave (Street Name)

City: Sandusky Zip Code: 44870

Property Location Description: 1/2 miles W (n, e, s, w) of Campbell St + Patrol Rd (CN) (nearest intersection)
on the S (n, e, s, w) side of Patrol Rd. (road name)

Location of Well in either: State Plane N ☑ S ☐ X 6230833.19 +/- ____ ft. or m Y 19087577.39 +/- ____ ft. or m
OR
Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 645.61 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other

ORIGINAL WELL ODNR Well Log Number: AAZ-PZOZ Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements: 4/21/05

Depth of Well: 18' Static Water Level: 4.71'
Size of Casing: 1" PVC Length of casing: 20.1'
Well Condition: Good, sand filterpack from 18' to 6" bgs. bentonite chips 0"-6" (surface casing)

SEALING PROCEDURE

Method of Placement: tremmie grout from bottom up

Placement:	From	To	Sealing Material	Volume
	0'	18'	bentonite slurry grout	6 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing: Good
Perforations: From 8' To 18'
From ____ To ____

Date Sealing Performed: 4/21/05
Reason(s) for Sealing: temporary monitoring well / piezometer - investigation completed

CONTRACTOR

Name: Frontz Drilling ODH Registration #: 120
Address: 2031 Millersburg Rd
City/State/Zip: Wooster, OH 44691

Signature: Al Hankoty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155461

LOCATION

County: Erie Township: Oxford Section/Lot Number (Circle One or Both):

Owner/Builder (Circle One or Both): Plum Brook Station

Address of Well Location: 6100 (Number) Columbus Ave (Street Name)

City: Sandusky Zip Code: 44870

Property Location Description: ½ miles w (n, e, s, w) of Campbell St + Patrol Rd (nearest intersection) on the S (n, e, s, w) side of Patrol Rd (road name)

Location of Well in either: State Plane ☑ N ☐ S X 623238.24 +/- ____ ft. or m Y 1909110.32 +/- ____ ft. or m
OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 646.15 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AAZ-P203 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements: 4/21/05

Depth of Well: 20.2' Static Water Level: 4.84'
Size of Casing: 1" PVC Length of casing: 22.71
Well Condition: Good, sand pack 20.2' - 6" bgs. bentonite chips 0"-6" (surface seal)

SEALING PROCEDURE

Method of Placement: tremmie grout from bottom up

Placement:	From	To	Sealing Material	Volume
	20.2'	0'	bentonite slurry	65 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing: Good
Perforations: From 10.2' To 20.2'
From ____ To ____

Date Sealing Performed: 4/21/05
Reason(s) for Sealing: temporary piezometer - investigation completed.

CONTRACTOR

Name: Frontz Drilling ODH Registration #: 120
Address: 2031 Millersburg Rd
City/State/Zip: Wooster, Ohio 44691

Signature: Al Handsby - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155462

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave. (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/2 miles (n, e, s, w) W of Campbell St + Patrol Rd (N) (nearest intersection)
on the S (n, e, s, w) side of Patrol Rd (road name)

Location of Well in either: State Plane (N ☐ S ☐) X 623474.48 +/- ____ ft. or m Y 1910053.39 +/- ____ ft. or m
OR Latitude/Longitude {Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.} Latitude ____ Longitude ____

Elevation of Well 643.06 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA2-PZ-04 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS Date of measurements 4/21/05

Depth of Well 21.5' Static Water Level 5.84'
Size of Casing 1" PVC Length of casing 24.02'
Well Condition Good, sandpack from 21.5' - 6" bgs., bentonite chips from 0"-6" (surface seal)

SEALING PROCEDURE
Method of Placement tremie grout from bottom up.

Placement:	From	To	Sealing Material	Volume
	0'	21.5'	bentonite slurry	7 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good
Perforations: From 11.5 To 21.5'
From ____ To ____

Date Sealing Performed 4/21/05
Reason(s) for Sealing temporary piezometer - investigation completed

CONTRACTOR
Name Frontz Drilling ODH Registration # 120
Address 2031 Millersburg Rd.
City/State/Zip Wooster, OH 44691

Signature Al Handerty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155463

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)

Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave. (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/2 miles (n, e, s, w) W of Campbell St. + Patrol Rd (N) (nearest intersection) on the S (n, e, s, w) side of Patrol Rd. (road name)

Location of Well in either: State Plane N ☑ S ☐ X 623047.14 +/- ____ ft. or m Y 1910004.02 +/- ____ ft. or m
OR Latitude/Longitude {Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec. Latitude ____ Longitude ____}

Elevation of Well 642.04 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AAZ-P205 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 4/21/05

Depth of Well 19' Static Water Level 4.76'
Size of Casing 1" PVC Length of casing 20.12'
Well Condition Good, sand filterpack from 19' - 6" bgs. Bentonite chips from 0" - 6" (surface seal)

SEALING PROCEDURE

Method of Placement tremie grout from bottom up

Placement:	From	To	Sealing Material	Volume
	19'	0'	bentonite slurry	6 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good

Perforations: From 9' To 19'
From ____ To ____

Date Sealing Performed 4-21-05

Reason(s) for Sealing temporary piezometer - investigation complete

CONTRACTOR

Name Frontz Drilling ODH Registration # 120

Address 2031 Millersburg Rd

City/State/Zip Wooster, OH 44691

Signature Al Handesty - Jacobs Eng (customer)

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.

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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155464

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/2 miles N (n, e, s, w) of Ransom Rd + Maintenance Rd (nearest intersection)
on the W (n, e, s, w) side of Ransom Rd. (road name)

Location of Well in either: State Plane (N ☑ S ☐) X 625292.47 +/- ____ ft. or m Y 1914712.80 +/- ____ ft. or m
OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 634.84 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA3-P201 Copy attached? Yes or (No) (circle one)

MEASURED CONSTRUCTION DETAILS Date of measurements 4-20-05

Depth of Well 21.0 Static Water Level ~~22~~ 3.22'
Size of Casing 1" PVC Length of casing 23.2
Well Condition Good, sandpack from 21.0 - 6" bgs. bentonite chips from 0"-6" (surface seal)

SEALING PROCEDURE
Method of Placement tremmie grout

Placement:	From	To	Sealing Material	Volume
	0'	21.0'	bentonite slurry	6.5 gallons

Was Casing Removed? (Yes) or No (circle one)
Condition of Casing Good
Perforations: From 11.0' To 21.0'
From ____ To ____

Date Sealing Performed 4-21-05
Reason(s) for Sealing temporary piezometer - investigation complete

CONTRACTOR
Name Frontz Drilling ODH Registration # 120
Address 2031 Millersburg Rd
City/State/Zip Wooster OH 44691

Signature Ole Handerty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155465

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) Plum Brook Station
Address of Well Location 6100 (Number) Columbus Ave (Street Name)
City Sandusky Zip Code 44870
Property Location Description: 1 1/2 miles N (n, e, s, w) of Ransom Rd + Maintanence Rd. (nearest intersection) on the W (n, e, s, w) side of Ransom Rd. (road name)

Location of Well in either: State Plane (N ☑ S ☐) X 624900.05 +/- ____ ft. or m Y 1914186.03 +/- ____ ft. or m
OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 638.62 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA3-PZ-02 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS Date of measurements 4-20-05

Depth of Well 25.2 Static Water Level 6.51
Size of Casing 1" PVC Length of casing 26.8'
Well Condition Good, sand pack 25.2-6" bgs. bentonite chips 0"-6" (surface seal)

SEALING PROCEDURE
Method of Placement trammie grout from bottom up

			Sealing Material	Volume
Placement: From 0'	To 25.2'		bentonite slurry	27.5 gallons
From	To			
From	To			

Was Casing Removed? Yes or No (circle one)
Condition of Casing Good
Perforations: From 15.2' To 25.2'
From ____ To ____

Date Sealing Performed 4.21.05
Reason(s) for Sealing temporary piezometer - investigation complete

CONTRACTOR
Name Frontz Drilling ODH Registration # 120
Address 2031 Millersburg Rd
City/State/Zip Wooster, OH 44691
Signature Al Hardesty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155466

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)

Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/2 miles N (n, e, s, w) of Ransom Rd + maintanence Rd (nearest intersection) on the W (n, e, s, w) side of Ransom Rd. (road name)

Location of Well in either: State Plane N ☑ S ☐ X 624457.19 +/- ____ ft. or m Y 1914945.49 +/- ____ ft. or m
OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 639.19 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA3 - PZ03 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 4·20·05

Depth of Well 24.9 Static Water Level 7.12'
Size of Casing 1" PVC Length of casing 27.7'
Well Condition Good, sand pack 6"-24.9', bentonite chip surface seal

SEALING PROCEDURE

Method of Placement tremmie grout from bottom up

Placement:	From	To	Sealing Material	Volume
	0'	24.9'	bentonite slurry	~ 7.5 gallons
	From	To		
	From	To		

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good
Perforations: From 14.9' To 24.9'
From ____ To ____

Date Sealing Performed 4-21-05
Reason(s) for Sealing temporary piezometer - investigation complete

CONTRACTOR

Name Frontz Drilling ODH Registration # 120
Address 2031 Millersburg Rd
City/State/Zip Wooster, OH 44691

Signature Al Hardesty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155467

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) Plum Brook Station
Address of Well Location 6100 (Number) Columbus Rd. (Street Name)
City Sandusky Zip Code 44870
Property Location Description: 1/4 miles N (n, e, s, w) of Ransom Rd + Maintanence Rd. (nearest intersection) on the W (n, e, s, w) side of Ransom Rd. (road name)

Location of Well in either: State Plane N ☑ S ☐ X 623953.73 +/- ____ ft. or m Y 1914904.13 +/- ____ ft. or m
OR
Latitude/Longitude {Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.
Latitude ____ Longitude ____}

Elevation of Well 638.71 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA3-PZ04 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 4-20-05

Depth of Well 24.3' Static Water Level 6.04'
Size of Casing 1" PVC Length of casing 27.2'
Well Condition Good. sand pack from TD to 6" bgs, bentonite chips from 0"-6" (surface seal)

SEALING PROCEDURE

Method of Placement tremie grout from bottom up

Placement:	From	To	Sealing Material	Volume
	0'	24.3	bentonite slurry	7 gallons

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good
Perforations: From 14.3' To 24.3'
From ____ To ____

Date Sealing Performed 4-21-05
Reason(s) for Sealing temporary piezometer - investigation complete

CONTRACTOR

Name Fronta Drilling ODH Registration # 120
Address 2031 Millersburg Rd
City/State/Zip Wooster, OH 44691

Signature Al Hardesty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0155468

LOCATION

County Erie Township Oxford Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) Plum Brook Station

Address of Well Location 6100 (Number) Columbus Ave (Street Name)

City Sandusky Zip Code 44870

Property Location Description: 1/4 miles N (n, e, s, w) of Ransom Rd + Maintenance Rd. (nearest intersection)
on the W (n, e, s, w) side of Ransom Rd. (road name)

Location of Well in either: State Plane N ☑ S ☐ X 624220.05 +/- ____ ft. or m Y 1914500.49 +/- ____ ft. or m
OR
Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude ____ Longitude ____

Elevation of Well 638.37 +/- ____ ft. or m Datum Plain: ☐ NAD27 ☑ NAD83

Source of Coordinates: ☐ GPS ☑ Survey ☐ Other ____

ORIGINAL WELL ODNR Well Log Number AA3-PZ05 Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 4-20-05

Depth of Well 24.0' Static Water Level 6.23'
Size of Casing 1" PVC Length of casing 26.2'
Well Condition Good. Sandpack from 6"-24.0', bentonite chip surface seal 0"-6".

SEALING PROCEDURE

Method of Placement tremmie grout from bottom-up

			Sealing Material	Volume
Placement: From 0'	To 24.0		bentonite slurry	6.5 gallons
From	To			
From	To			

Was Casing Removed? Yes or No (circle one)

Condition of Casing Good
Perforations: From 14.0' To 24.0'
From ____ To ____

Date Sealing Performed 4.21.05
Reason(s) for Sealing temporary piezometer - investigation completed

CONTRACTOR

Name Frontz Drilling ODH Registration # 120
Address 2031 Millersburg Rd.
City/State/Zip Wooster, OH 44691

Signature Al Hardesty - Jacobs Eng (customer)
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

APPENDIX H

Appendix H

Monitoring Well Construction Diagrams.

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Fronte Drilling

DRILLING TECHNIQUE: CME 75 Auger Rig

AUGER SIZE AND TYPE: 4"/4" hollow stem

BOREHOLE IDENTIFICATION: AA3-CW-003

BOREHOLE DIAMETER: ~~8"~~ 6"

WELL IDENTIFICATION: AA3-CW-003

WELL CONSTRUCTION START DATE: 12-3-04

WELL CONSTRUCTION COMPLETE DATE: 12-3-04

SCREEN MATERIAL: PVC - 0.010

SCREEN DIAMETER: 2"

STRATUM-SCREENED INTERVAL (FT): 8'-18'

CASING MATERIAL: PVC

CASING DIAMETER: 2"

TYPE OF FILTER PACK: Sand

GRADIATION: 20/40

AMOUNT OF FILTER PACK USED: 375 lbs

TYPE OF BENTONITE: Hole plug - barrod

AMOUNT BENTONITE USED: 200 lbs (100 bottom, 100 top)

TYPE OF CEMENT: N/A

AMOUNT CEMENT USED: N/A

GROUT MATERIALS USED: N/A

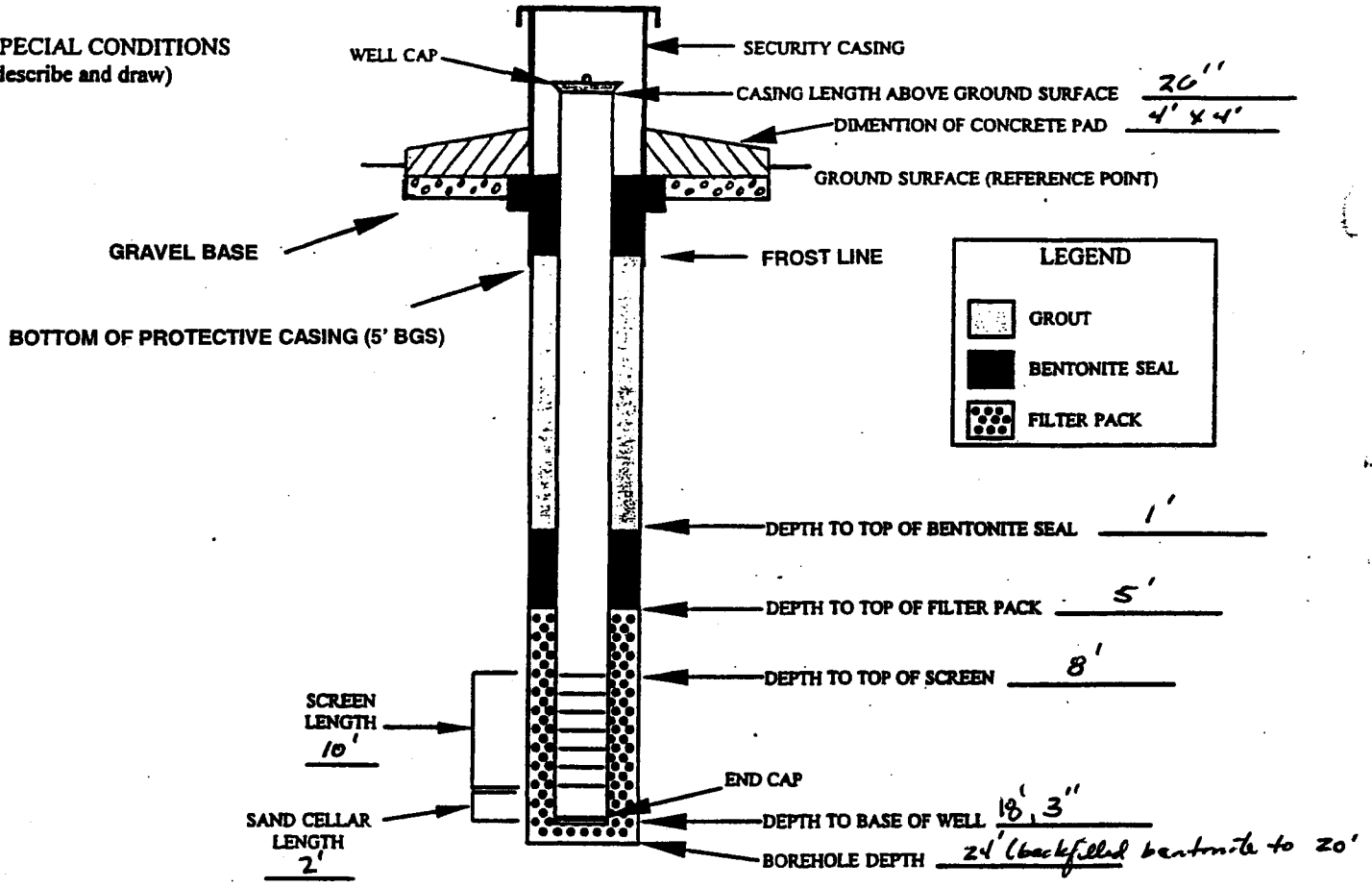
DIMENSIONS OF SECURITY CASING: 6" Steel

TYPE OF WELL CAP: threaded cap

TYPE OF END CAP: Flat - threaded

COMMENTS:

SPECIAL CONDITIONS
(describe and draw)



NOT TO SCALE

INSTALLED BY: Rob Hamilton (Fronte) INSTALLATION OBSERVED BY: Al Hardesty

DISCREPANCIES:

Figure 5-2

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Frontz Drilling

DRILLING TECHNIQUE: Hollow Stem Auger
AUGER SIZE AND TYPE: 4 1/4" hollow stem

BOREHOLE IDENTIFICATION: AA3-GW-004
BOREHOLE DIAMETER: ~~2~~ 6"
WELL IDENTIFICATION: AA3-GW-004

WELL CONSTRUCTION START DATE: 12-4-04
WELL CONSTRUCTION COMPLETE DATE: 12-4-04

SCREEN MATERIAL: PVC - 0.010 slot
SCREEN DIAMETER: 2"
STRATUM-SCREENED INTERVAL (FT): 8'-18'

CASING MATERIAL: PVC - schedule 40
CASING DIAMETER: 2"

TYPE OF FILTER PACK: Sand - Silica
GRADIATION: 20/40
AMOUNT OF FILTER PACK USED: 500 lbs

TYPE OF BENTONITE: hole plug - baroid
AMOUNT BENTONITE USED: 100 lbs

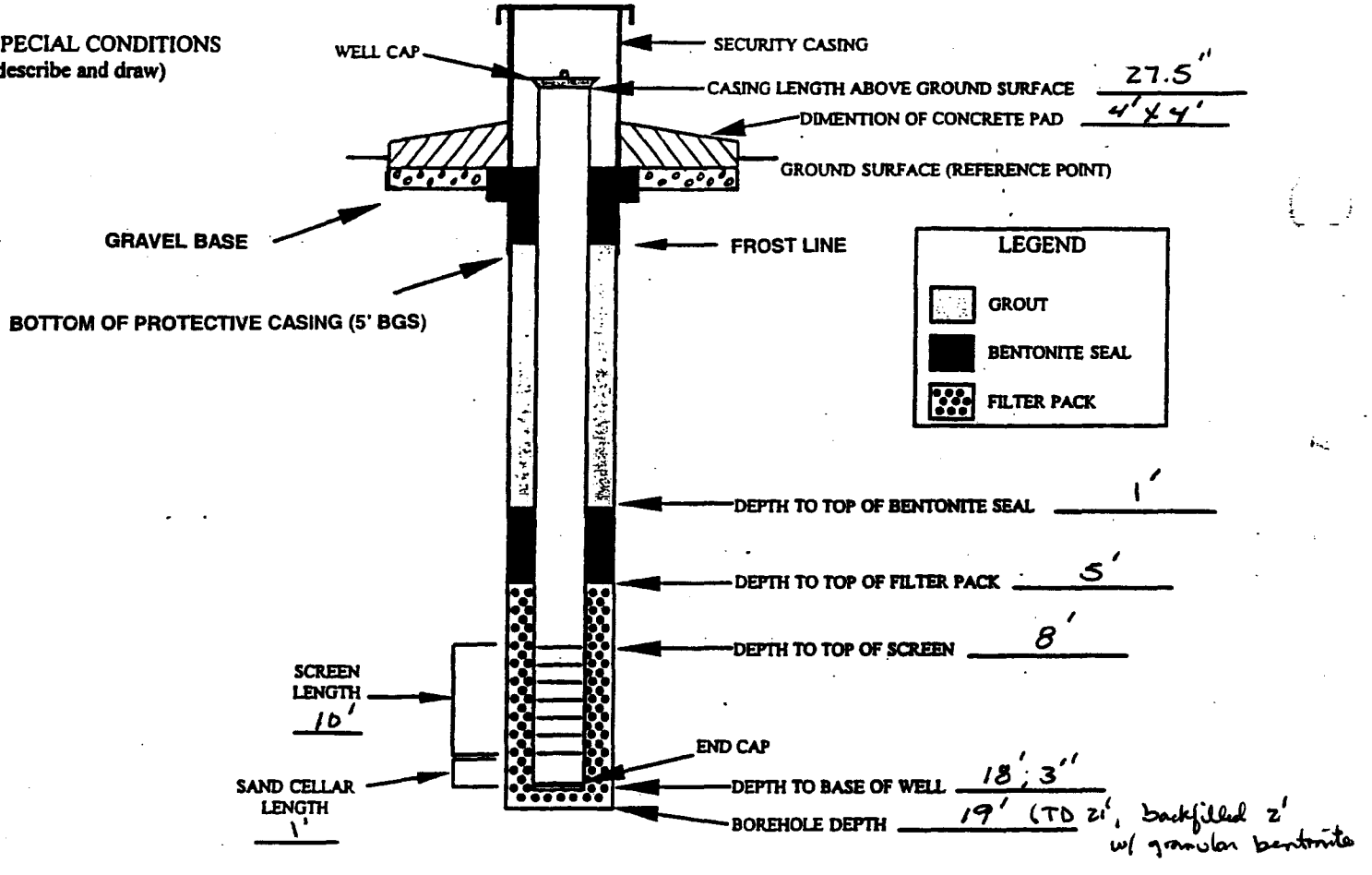
TYPE OF CEMENT: N/A
AMOUNT CEMENT USED: N/A
GROUT MATERIALS USED: N/A

DIMENSIONS OF SECURITY CASING: 6" steel

TYPE OF WELL CAP: threaded cap
TYPE OF END CAP: Flat - threaded

COMMENTS:

SPECIAL CONDITIONS
(describe and draw)



NOT TO SCALE

INSTALLED BY: Rob Hamilton INSTALLATION OBSERVED BY: Al Hardesty

DISCREPANCIES:

Figure 5-2

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Frontz Drilling

DRILLING TECHNIQUE: Hollow Stem Auger
AUGER SIZE AND TYPE: 4"4 hollow stem

BOREHOLE IDENTIFICATION: AA3-GW-005
BOREHOLE DIAMETER: 6"
WELL IDENTIFICATION: AA3-GW-005

WELL CONSTRUCTION START DATE: 12-6-04
WELL CONSTRUCTION COMPLETE DATE: 12-6-04

SCREEN MATERIAL: PVC - 2" ID - 0.010
SCREEN DIAMETER: 2"
STRATUM-SCREENED INTERVAL (FT): 8'-18'

CASING MATERIAL: PVC - schedule 40
CASING DIAMETER: 2"

TYPE OF FILTER PACK: Sand
GRADIATION: 20/40
AMOUNT OF FILTER PACK USED: 375 lb

TYPE OF BENTONITE: bentonite hole plug
AMOUNT BENTONITE USED: 100 lbs

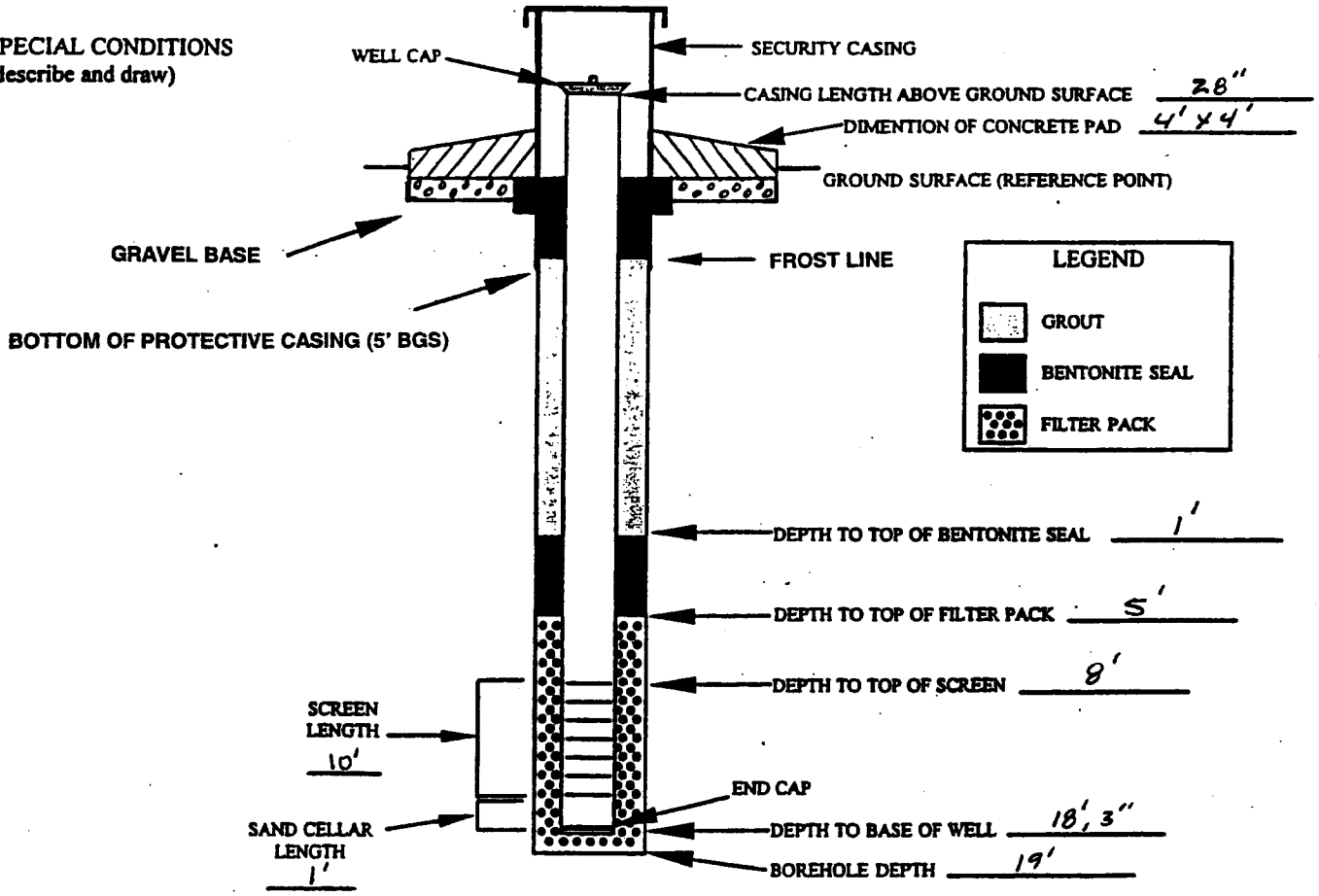
TYPE OF CEMENT: N/A
AMOUNT CEMENT USED: N/A
GROUT MATERIALS USED: N/A

DIMENSIONS OF SECURITY CASING: 6" steel

TYPE OF WELL CAP: threaded cap
TYPE OF END CAP: flat-threaded

COMMENTS:

SPECIAL CONDITIONS
(describe and draw)



NOT TO SCALE

INSTALLED BY: Rob Hamilton

INSTALLATION OBSERVED BY: Al Hardesty / Jim Beaujon

DISCREPANCIES:

Figure 5-2

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Frontz Drilling

DRILLING TECHNIQUE: Air Rotary
AUGER SIZE AND TYPE: 3 7/8 core bit

BOREHOLE IDENTIFICATION: AA3-BEDGW-002
BOREHOLE DIAMETER: 3 7/8"
WELL IDENTIFICATION: AA3-BEDGW-002

WELL CONSTRUCTION START DATE: 12-3-04
WELL CONSTRUCTION COMPLETE DATE: 12-16-04

SCREEN MATERIAL: PVC - 0.010 slot
SCREEN DIAMETER: 2"
STRATUM-SCREENED INTERVAL (FT): 45'-55'

CASING MATERIAL: PVC - schedule 40
CASING DIAMETER: 2"

TYPE OF FILTER PACK: sand
GRADIATION: 20/40
AMOUNT OF FILTER PACK USED: 150 lbs

TYPE OF BENTONITE: Hole plug
AMOUNT BENTONITE USED: 25 lbs

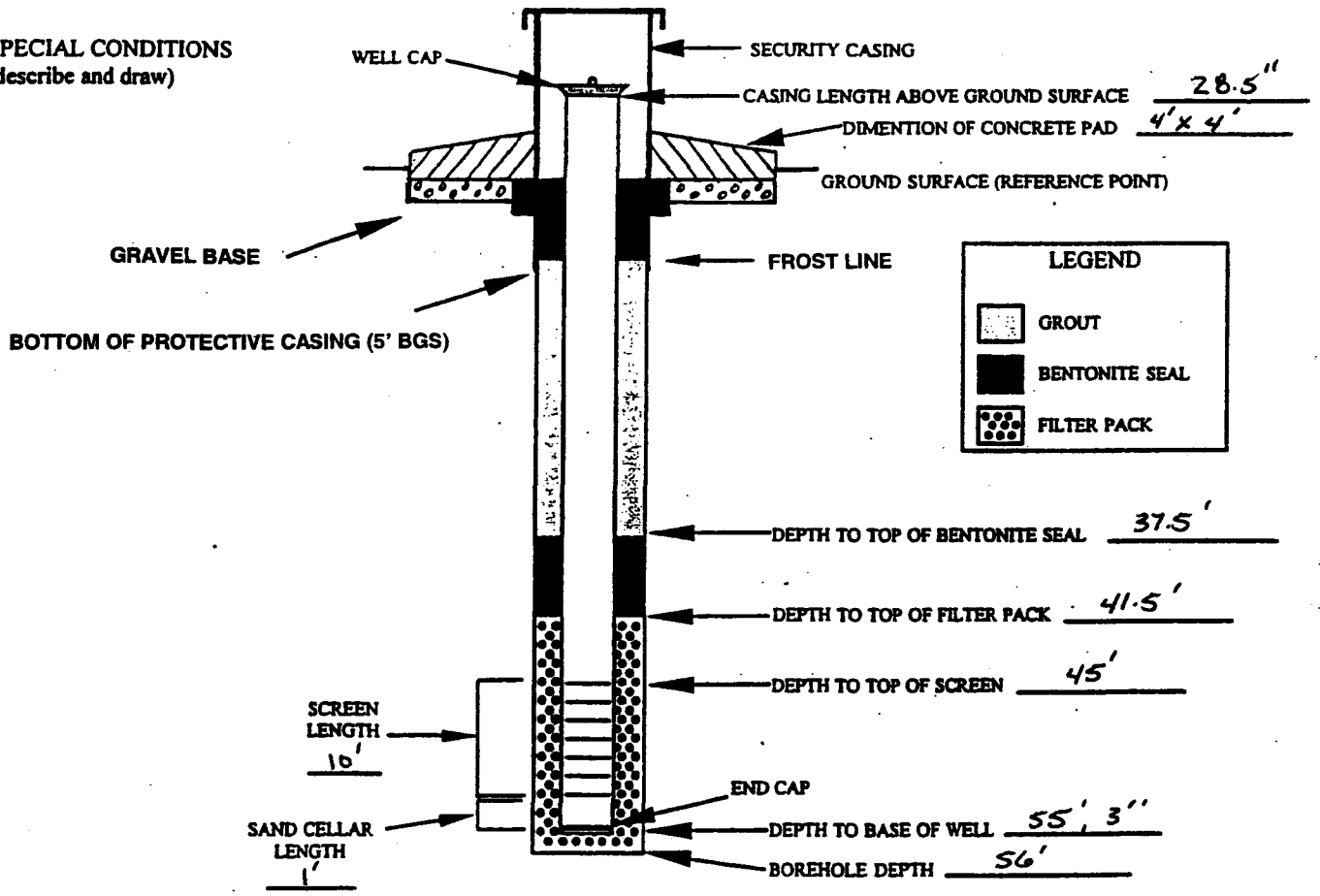
TYPE OF CEMENT: bentonite / portland mix
AMOUNT CEMENT USED: 15 gallons
GROUT MATERIALS USED: tremie from bottom up

DIMENSIONS OF SECURITY CASING: 6" steel

TYPE OF WELL CAP: j-plug pressure cap
TYPE OF END CAP:

COMMENTS: set 6" surface casing to 26.5'
set 4" casing to 40'
performed mud rotary from 27'-40'
performed air rotary from 40'-56'

SPECIAL CONDITIONS
(describe and draw)



INSTALLED BY: Rob Hamilton INSTALLATION OBSERVED BY: Al Hardesty

DISCREPANCIES:

Figure 5-2

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Frontz Drilling

DRILLING TECHNIQUE: Air Rotary

AUGER SIZE AND TYPE: 3 7/8" core bit

BOREHOLE IDENTIFICATION: AA3-BEDGW-003

BOREHOLE DIAMETER: 3 7/8"

WELL IDENTIFICATION: AA3-BEDGW-003

WELL CONSTRUCTION START DATE: 12-4-04

WELL CONSTRUCTION COMPLETE DATE: 12-17-04

SCREEN MATERIAL: PVC - 0.010 slot

SCREEN DIAMETER: 2"

STRATUM-SCREENED INTERVAL (FT): 40'-45'

CASING MATERIAL: PVC - schedule 40

CASING DIAMETER: 2"

TYPE OF FILTER PACK: sand

GRADIATION: 20/40

AMOUNT OF FILTER PACK USED: 125 lbs

TYPE OF BENTONITE: Hole plug

AMOUNT BENTONITE USED: 25lb

TYPE OF CEMENT: cement bentonite / portland mix

AMOUNT CEMENT USED: 12 Gal

GROUT MATERIALS USED: tremie from bottom up

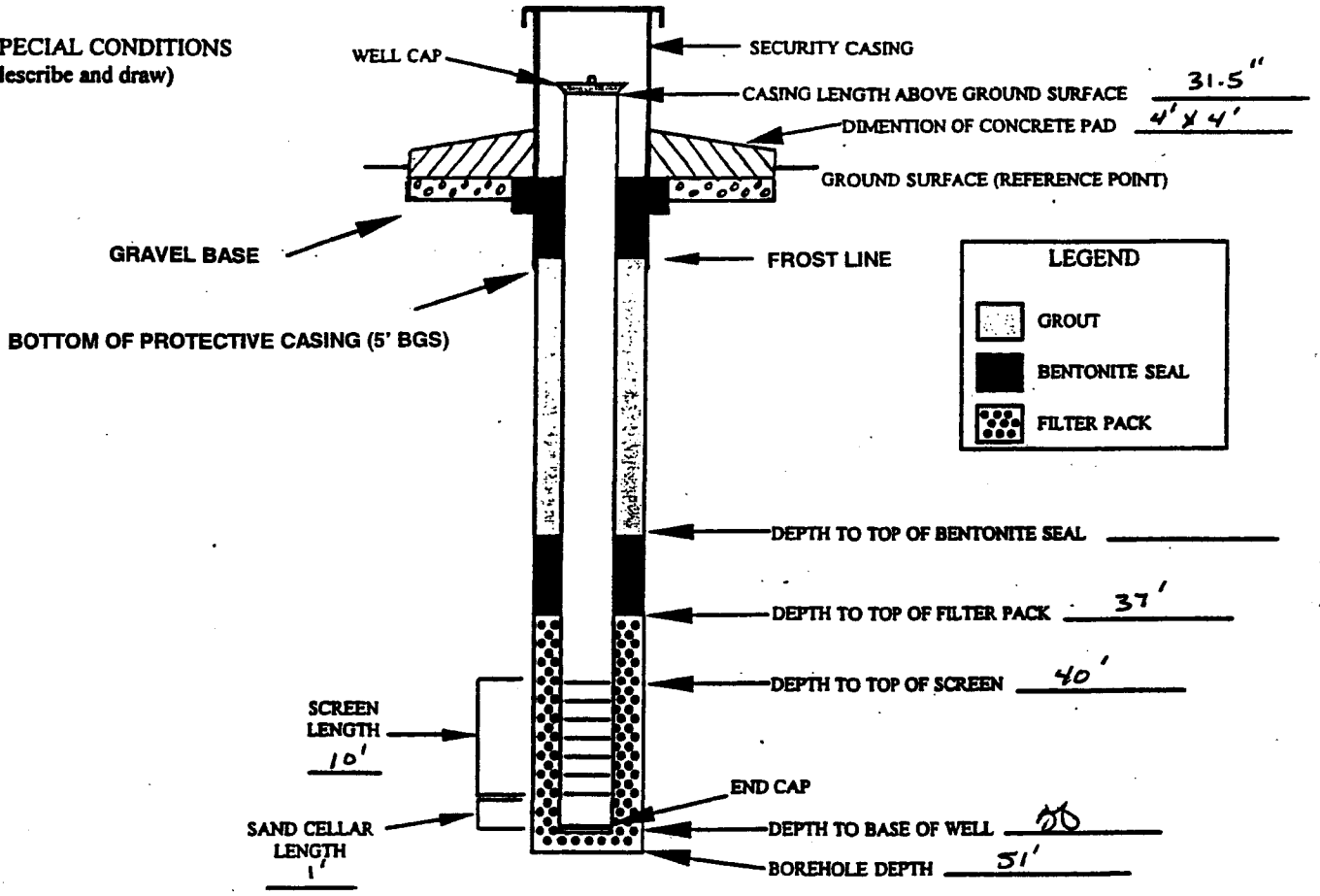
DIMENSIONS OF SECURITY CASING: 6" steel

TYPE OF WELL CAP:

TYPE OF END CAP:

COMMENTS: set 6" surface casing to 23.5'
set 4" casing to 35'
performed air rotary from ~~23.5~~ 31'-35'
performed air rotary from 23.5'-31'
and from 35'-56'

SPECIAL CONDITIONS
(describe and draw)



NOT TO SCALE

INSTALLED BY: Rob Hamilton

INSTALLATION OBSERVED BY: Al Hardesty

DISCREPANCIES:

Figure 5-2

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Al Hardesty

DRILLING CONTRACTOR: Fronte Drilling

DRILLING TECHNIQUE: Air rotary

AUGER SIZE AND TYPE: 3 7/8 coring bit

BOREHOLE IDENTIFICATION: AA3-BEDGW-004

BOREHOLE DIAMETER: 3 7/8"

WELL IDENTIFICATION: AA3-BEDGW-004

WELL CONSTRUCTION START DATE: 12/5/04

WELL CONSTRUCTION COMPLETE DATE: 12-14-04

SCREEN MATERIAL: None - open hole

SCREEN DIAMETER: N/A

STRATUM-SCREENED INTERVAL (FT): open-hole

CASING MATERIAL: 6" steel casing to 27'

CASING DIAMETER: 4" steel casing to 34.5'

TYPE OF FILTER PACK: none

GRADIATION: N/A

AMOUNT OF FILTER PACK USED: N/A

TYPE OF BENTONITE: bentonite seal in 6" annulus 23'-27'; bentonite seal in 4" annulus 30.5'-34.5

AMOUNT BENTONITE USED: 50 lbs

TYPE OF CEMENT: cement bentonite/portland mix

AMOUNT CEMENT USED: 150 gallons 6" annulus

GROUT MATERIALS USED: 80 gallons 4" annulus

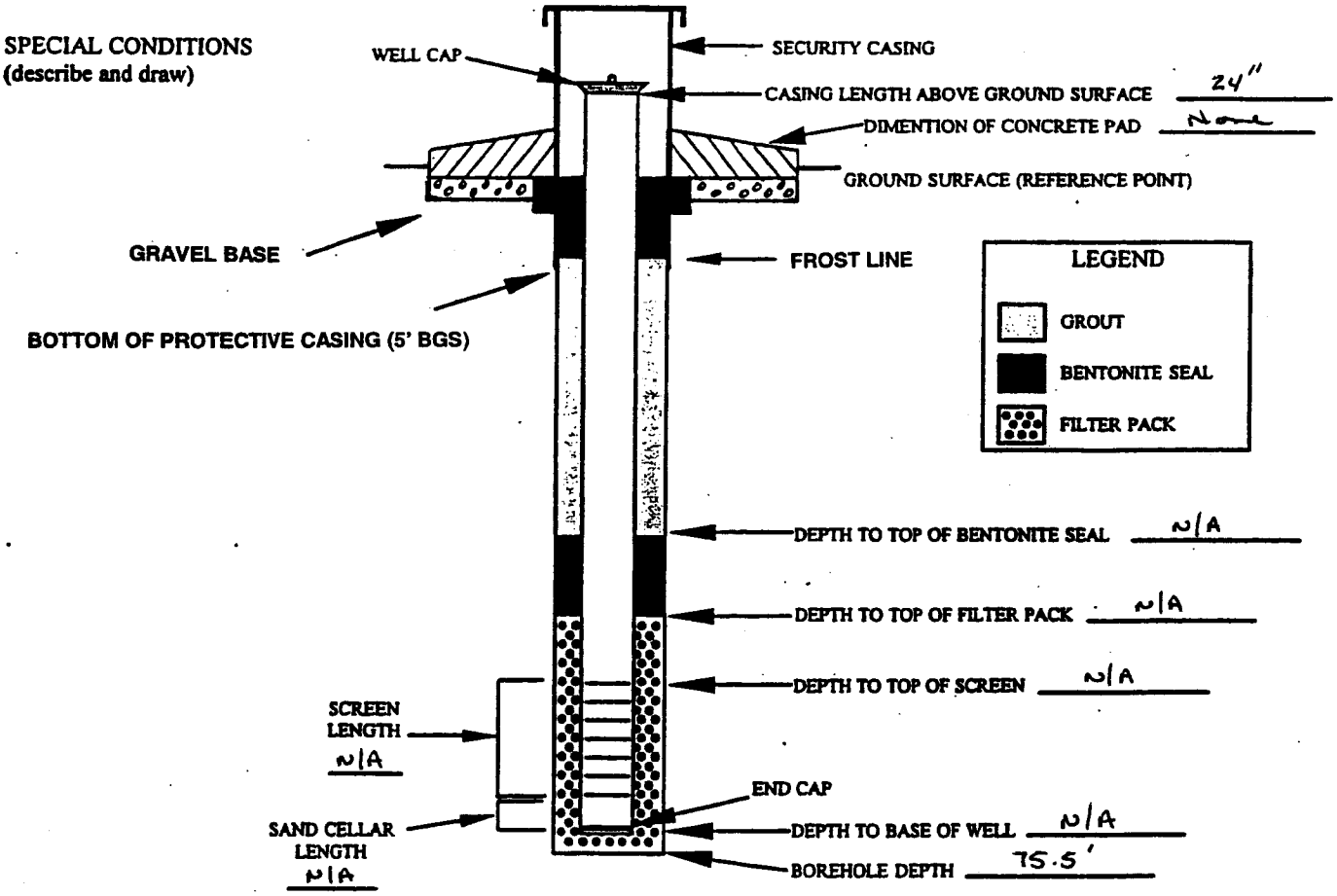
DIMENSIONS OF SECURITY CASING: 4" steel

TYPE OF WELL CAP: 4" pressure cap

TYPE OF END CAP: none

COMMENTS: Did not finish installation of PVC well due to lack of water

SPECIAL CONDITIONS
(describe and draw)



NOT TO SCALE

INSTALLED BY: Rob Hamilton

INSTALLATION OBSERVED BY: Al Hardesty

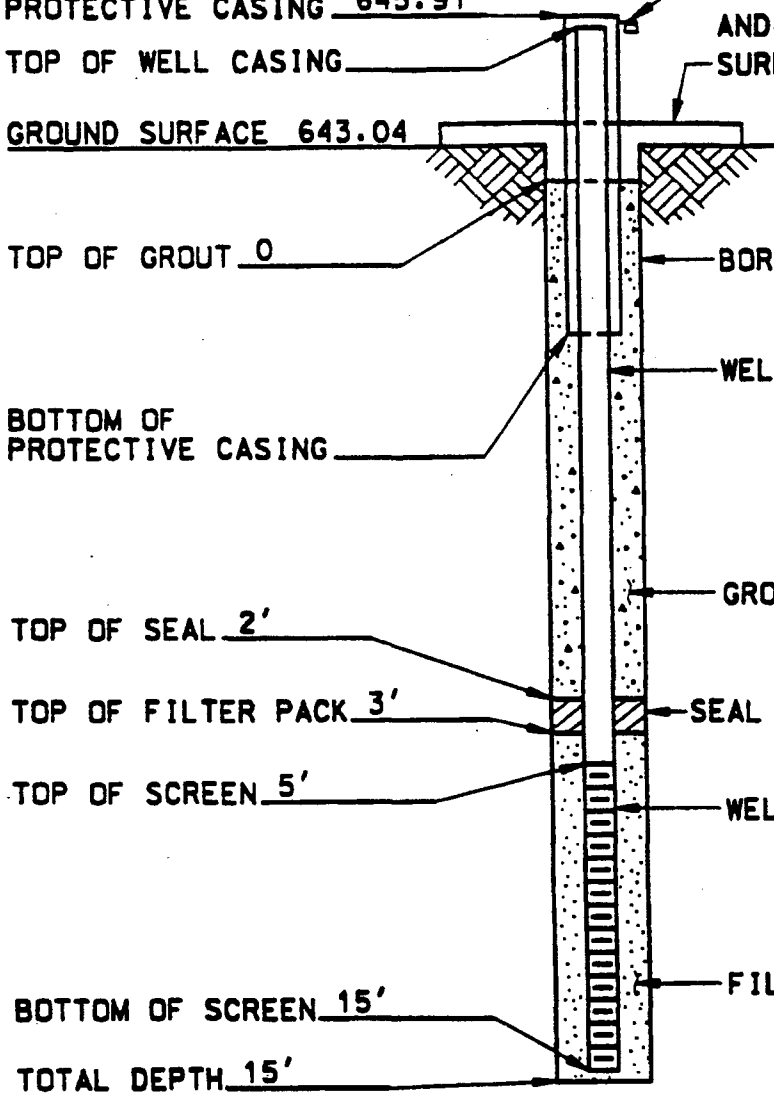
DISCREPANCIES: left as open bore hole from 34.5' to TD due to no formation water. left open to monitor future water levels.

Figure 5-2

MK-MW09

WELL COMPLETION RECORD

PROJECT PLUM BROOK SI
LOCATION SANDUSKY, OHIO
WELL NUMBER MW09
DATE INSTALLED 6/29/93
MKE REP. T. BENSON
DRILLER TOLTEST



COMMENTS

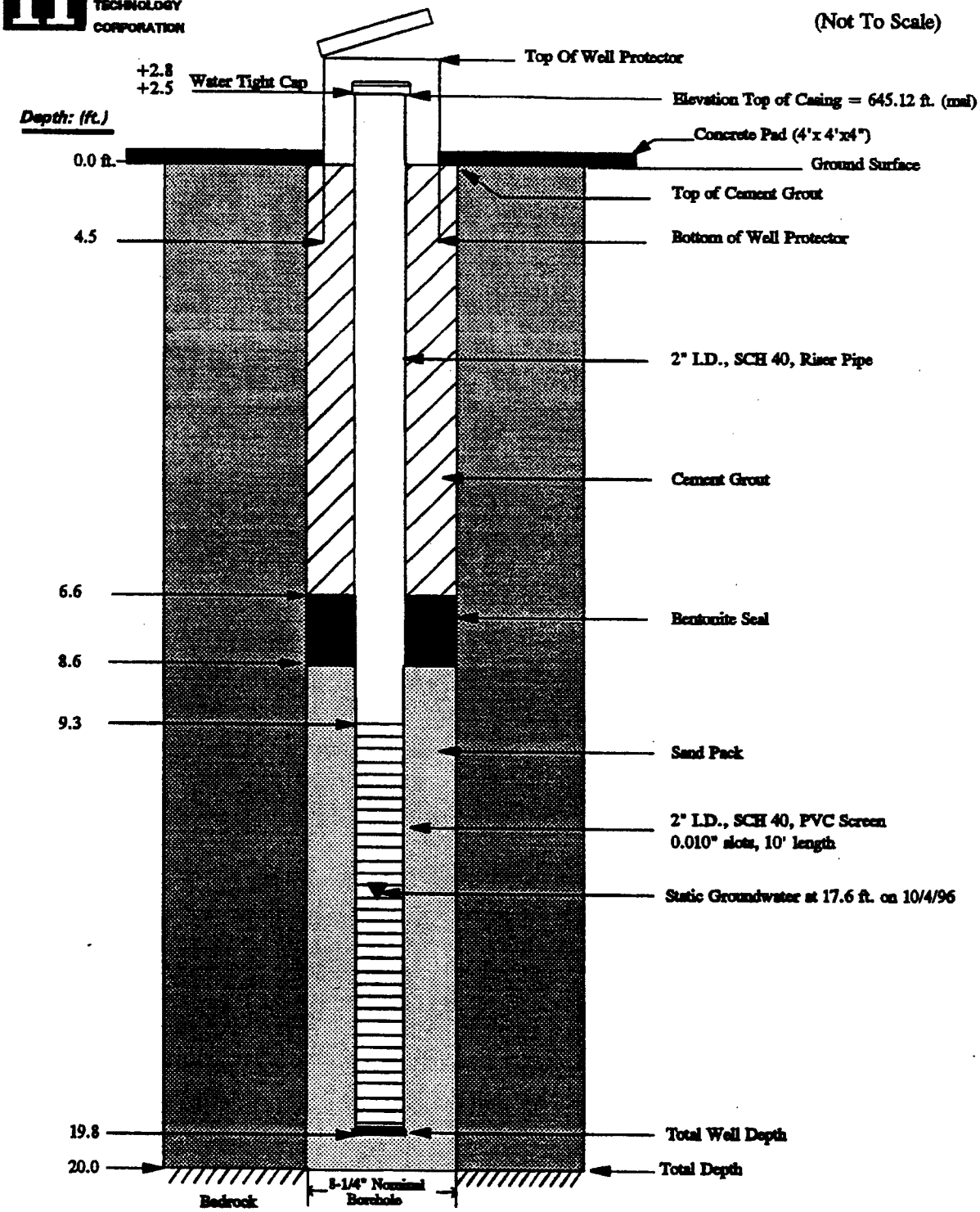
REP. SIGNATURE

DATE

MORRISON KNUDSEN CORP.
ENVIRONMENTAL SERVICES GROUP

INTERNATIONAL TECHNOLOGY CORPORATION

(Not To Scale)



Notes:

Well No.: IT-MW10

Date Installed: 9/26/96

Elevation Top of Casing*:

* Based on Mean Sea Level (MSL)

Well Construction Diagram
prepared for:

USACE - NASHVILLE

PLUM BROOK ORDNANCE WORKS

[illegible]

Pizometer

~~Monitoring Well~~ Construction Form (Overburden)

Project:	PBOW	Well Number:	IT-AA2-GW-002
Location:	Erie County, Sandusky Ohio	Site Location:	AA2 OU #
Client:	Nashville USACE	Installation Date	9-22-97
Subcontractor:	Bolasco Drilling	Northing:	
Driller:	Allen Drilling	Easting:	
IT Field Representative:	Greg Buchner	IT Project Number:	771481

Protective Cover Elevation (ft):

Top of Casing Elevation (ft):

Top of Casing Stickup (ft): 2.5

Land Surface Elevation (ft):

Approximate Diameter of Borehole (in): 8.25

Well Casing Diameter (in): 2

Depth to Water (ft):

During Drilling: No encountered

Date: 9-22-97

Post Development: NA TOC

Date: NA

Top of Bentonite Seal (ft): 2.5

Top of Filter Pack (ft): 5.5

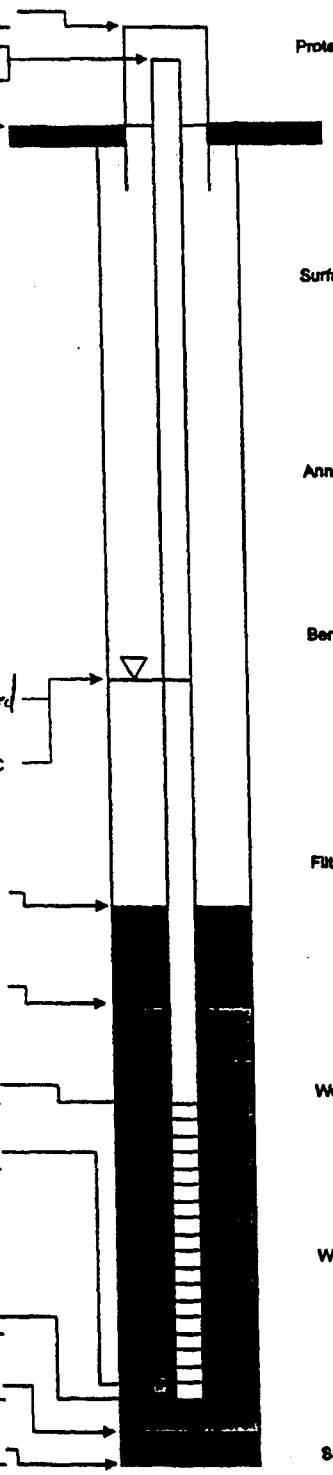
Top of Screen Interval (ft): 8.25

Bottom of Screen Interval (ft): 18.25

Bottom of Well (ft): 18.5

Bottom of Filter Pack (ft): 19.5

Bottom of Borehole (ft): 19.5



Protective Casing:

Type: None

Dimensions (in): NA

Length (ft): NA

Guard Post: NA

Surface Pad:

Dimensions: ~~NA~~ None

Type: ~~Concrete~~ NA

Annular Space Seal:

Type: Bentonite-Cement Grout

Installation: Gravity Tremie (Pumped)

Bentonite Seal:

Manufacturer: 1/4 inch Pellets

Type: (Pellets) Slurry

Installation: 6-in lifts One Section

Gravity Tremie Pumped

Hydration time (hrs): 48 hr

Filter Pack Material:

Manufacturer:

Product Name:

Size: #5

Volume Added (ft³): 300 lb

Installation: Gravity (Tremie)

Well Casing:

Manufacturer: Johnson

Type: PVC

Diameter (in): 2

Well Screen Casing:

Manufacturer: Johnson

Type: Wire Wrap

Slot Size (in): 0.010

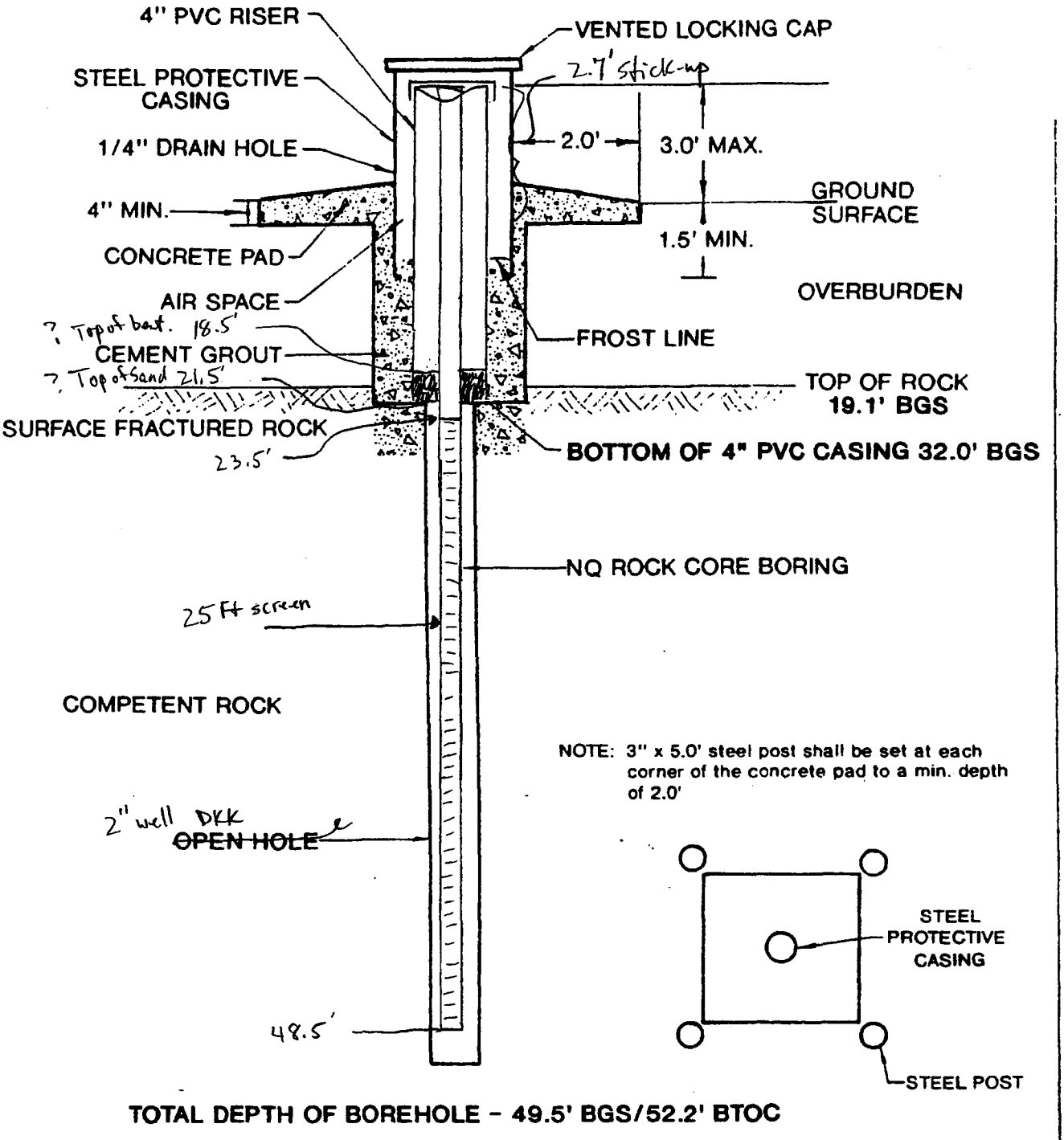
Slot Type: Continous Factory slot

Sump/End Cap: PVC

Backfill Material: —

Depths and heights are referenced to ground surface unless specified TOC.

All elevations are referenced to MSL (NAVD 88).



PB-Bed-MW-19
BEDROCK WELL DETAILS

Plum Brook Ordnance Works
Sandusky, Ohio

DAMES & MOORE

Monitoring Well Construction Form (Bedrock)

Project	PBOW	Well Number:	IT-AA2-BEDGW-001
Location:	Erie County, Sandusky Ohio	Site Location:	AA2 OU #
Client:	Nashville USACE	Installation Date	10-2-97
Subcontractor:	Layco Drilling	Northing:	
Driller:	Allen Dudlum	Easting:	
IT Field Representative:	Greg Buckner/Ed Kurowsky	IT Project Number:	771481

Protective Cover Elevation (ft):

Top of Casing Elevation (ft):

Top of Casing Stickup (ft): 2.5

Land Surface Elevation (ft):

Approximate Diameter of Section 1 Borehole (in): 14.25

Diameter of Surface Casing (in): 10.0

Depth to Bedrock (ft): 18.8

Bottom of Surface Casing (ft): 20.0

Very Hard Rock, Roller Cone used Not per. Very Deep.

Depth to Water (ft):

During Drilling: ~34.0

Date: 10-2-97

Post Development: 12.48 TOC

Date: 10-5-97

Approximate Diameter of Section 2 Borehole (in): 6

Well Casing Diameter (in): 2

Top of Bentonite Seal (ft): 18

Top of Filter Pack (ft): 23

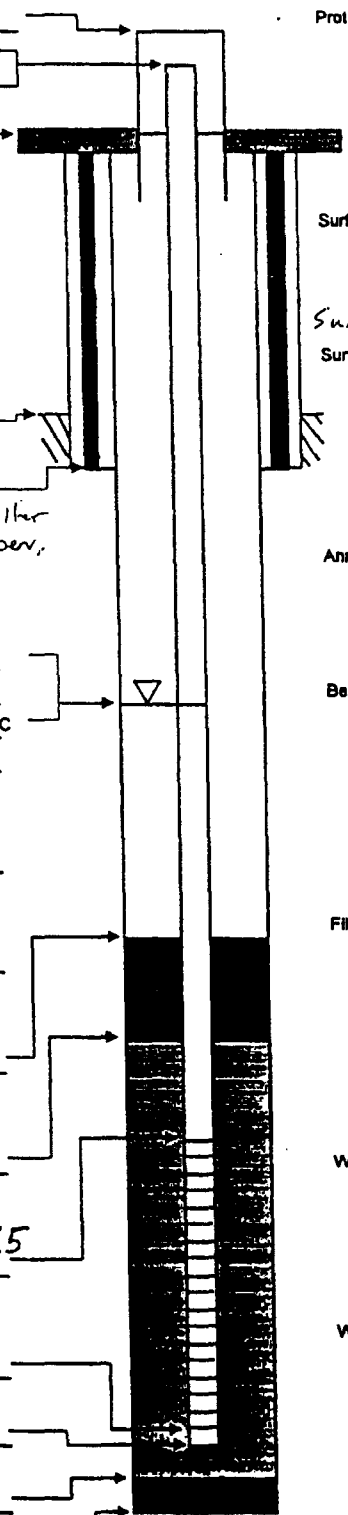
Top of Screen Interval (ft): 27.75

Bottom of Screen Interval (ft): 42.75

Bottom of Well (ft): 43.0

Bottom of Filter Pack (ft): 44.0

Bottom of Borehole (ft): 44.0



Protective Casing:

Type: steel

Dimensions (in): 6

Length (ft): 4.5

Guard Post: 8

Surface Pad:

Dimensions: 4'x4'x4'x4'

Type: Concrete

Subsurface Pad 6" of Gravel

Surface Casing:

Type: steel

Diameter (in): 10

Installation: Tremie Halliburton Cementing Plug Other Plug

Annular Space Seal:

Type: Bentonite-Cement Grout

Installation: Gravity Tremie (Pumped)

Bentonite Seal:

Manufacturer: 1/4 inch Pellets

Type: (Pellets) Slurry

Installation: 6-in lifts One Section (Gravity) Tremie Pumped

Hydration time (hrs): 48hr

Filter Pack Material:

Manufacturer:

Product Name:

Size: #5

Volume Added (ft^3): 400lb

Installation: (Gravity) (Tremie)

Well Casing:

Manufacturer: Johnson

Type: PVC

Diameter (in): 2

Well Screen Casing:

Manufacturer: Johnson

Type: Wire Wrap

Slot Size (in): 0.010

Slot Type: Continous Factory slot

Sump/End Cap: PVC

Backfill Material:

Depths and heights are referenced to ground surface unless specified TOC.

All elevations are referenced to MSL (NAVD 88).

Monitoring Well Construction Form (Bedrock)

Project:	PBOW	Well Number:	IT-AA3-BEDGW-001
Location:	Erie County, Sandusky Ohio	Site Location:	AA3 OU #
Client:	Nashville USACE	Installation Date	10-5-97
Subcontractor:	Belasco Drilling	Northing:	
Driller:	Allen Dudley	Easting:	
IT Field Representative:	Ed Kawerski Eng / Greg Smith	IT Project Number:	771481

Protective Cover Elevation (ft):

Top of Casing Elevation (ft):

Top of Casing Stickup (ft): 2.5

Land Surface Elevation (ft):

Approximate Diameter of Section 1 Borehole (in): 14.25

Diameter of Surface Casing (in): 10.0

Depth to Bedrock (ft): 25.9

Bottom of Surface Casing (ft): 28.0

Very Hard Rock

Depth to Water (ft):

During Drilling: ~44.0

Date: 10-4-97

Post Development: 28.00 TOC

Date: 10-7-97

Approximate Diameter of Section 2 Borehole (in): 6.0

Well Casing Diameter (in): 2.0

Top of Bentonite Seal (ft): 28.0

Top of Filter Pack (ft): 33.0

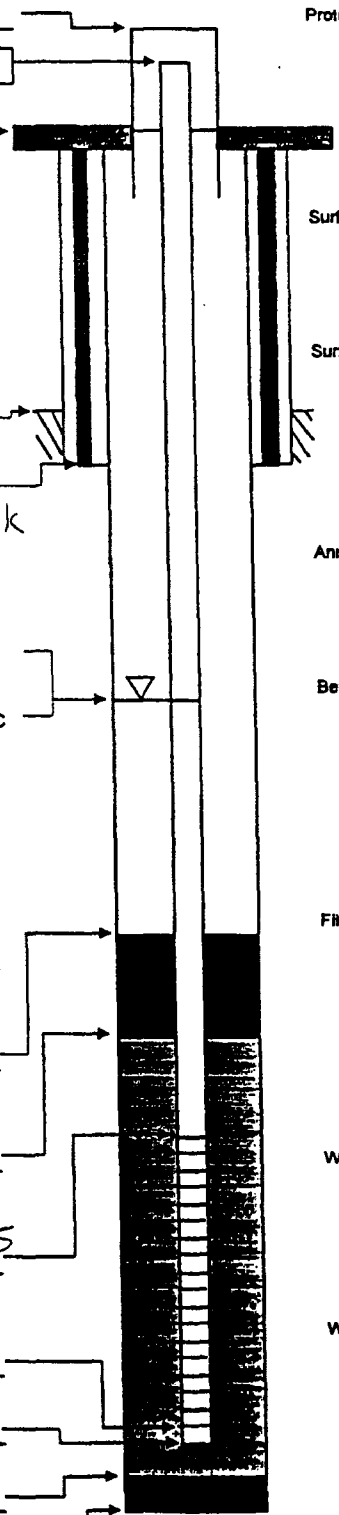
Top of Screen Interval (ft): 37.75

Bottom of Screen Interval (ft): 52.75

Bottom of Well (ft): 53.00

Bottom of Filter Pack (ft): 54.00

Bottom of Borehole (ft): 54.00



Protective Casing:

Type: Steel

Dimensions (in): 6.0

Length (ft): 9.5

Guard Post: 8.0

Surface Pad:

Dimensions: 4'x4'x4'x4'

Type: Concrete

Surface Casing:

Type: Low Carbon Steel

Diameter (in): 10.0

Installation: (Tremie) Halliburton Cementing Plug Other Plug

Annular Space Seal:

Type: Bentonite-Cement Grout

Installation: Gravity Tremie (Pumped)

Bentonite Seal:

Manufacturer: 1/4 inch Pellets

Type: (Pellets) Slurry

Installation: 6-in lifts One Section Gravity Tremie Pumped

Hydration time (hrs): 48 hrs

Filter Pack Material:

Manufacturer:

Product Name:

Size: #5

Volume Added (ft³): 400 lb

Installation: Gravity (Tremie)

Well Casing:

Manufacturer: Johnson

Type: PVC

Diameter (in): 2 in

Well Screen Casing:

Manufacturer: Johnson

Type: Wire Wrap

Slot Size (in): 0.01

Slot Type: Continous Factory slot

Sump/End Cap: PVC

Backfill Material:

Depths and heights are referenced to ground surface unless specified TOC.

All elevations are referenced to MSL (NAVD 88).

Monitoring Well Construction Form (Overburden)

Project:	PBOW	Well Number:	IT-AA3-GW-002
Location:	Erie County, Sandusky Ohio	Site Location:	AA3 OU#
Client:	Nashville USACE	Installation Date	9-18-97
Subcontractor:	Johnson Drilling	Northing:	
Driller:	Greg Conrad	Easting:	
IT Field Representative:	Ed Kunkel	IT Project Number:	771481

Protective Cover Elevation (ft):

Top of Casing Elevation (ft):

Top of Casing Stickup (ft): 2.5

Land Surface Elevation (ft):

Approximate Diameter of Borehole (in): 8.25

Well Casing Diameter (in): 2

Depth to Water (ft):

During Drilling: ~8.0

Date: 9-18-97

Post Development: 5.75 TOC

Date: 10-7-97

Top of Bentonite Seal (ft): 1.5

Top of Filter Pack (ft): 3.0

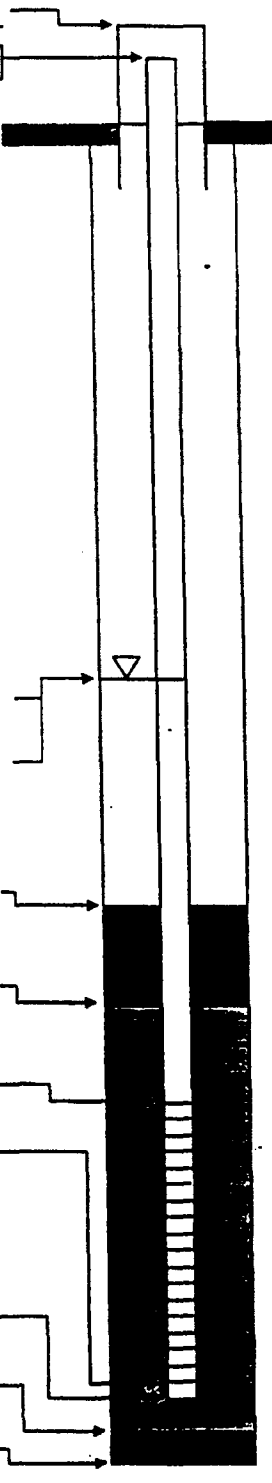
Top of Screen Interval (ft): 5.75

Bottom of Screen Interval (ft): 15.75

Bottom of Well (ft): 16.0

Bottom of Filter Pack (ft): 17.0

Bottom of Borehole (ft): 17.0



Protective Casing:

Type: Steel

Dimensions (in): ~~5.5~~ 6.0

Length (ft): 5.5

Guard Post: 8

Surface Pad:

Dimensions: 4'x4'x4'x4'

Type: Concrete

Subsurface Pad: 6' of gravel

Annular Space Seal:

Type: Bentonite-Cement Grout

Installation: Gravity Tremie Pumped

Bentonite Seal:

Manufacturer: 1/4 inch Pellets

Type: Pellets Slurry

Installation: 6-in lifts One Section

Gravity Tremie Pumped

Hydration time (hrs): 48

Filter Pack Material:

Manufacturer:

Product Name:

Size: #5

Volume Added (ft³): 300 lb

Installation: Gravity Tremie

Well Casing:

Manufacturer: Johnson

Type: PVC

Diameter (in): 2

Well Screen Casing:

Manufacturer: Johnson

Type: Wire Wrap

Slot Size (in): 0.010

Slot Type: Continous Factory slot

Sump/End Cap: PVC

Backfill Material:

Depths and heights are referenced to ground surface unless specified TOC.

All elevations are referenced to MSL (NAVD 88).

APPENDIX I

Appendix I

Well Development Records.

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-003
SHEET 1 of 3

PROJECT NAME: PBOW Acid Area 2+3RI PROJECT NO.: 35BH9304 DATE: 12-18-04 + 12-19-04

LOCATION: AA3-GW-003 DATE INSTALLED: 12-3-04

TOTAL DEPTH (FTOC) 20.09 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba U22XD w/ flow-thru cell

pH Meter EC Meter Turbidity Meter Thermometer

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) 20.09 ft

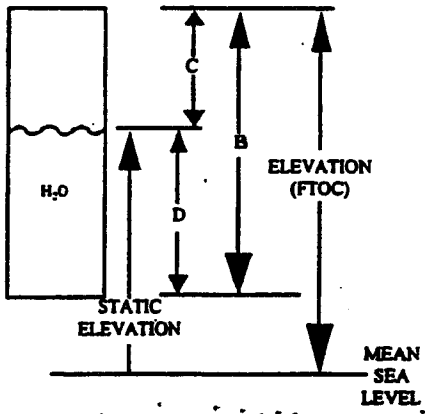
Measured Water Level Depth (C) 4.06 ft

Length of Static Water Column (D) (B) - (C) = 16.03 ft

13 x 0.56 = 7.28 , 3.03 x 0.16 = .48

Casing Water Volume (E) = (A) x (D) = 7.76 gal

Total Purge Volume = 38.8 (gal)



started purge at 1515 - surged well with bladder pump during initial pumping

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-18-04	~~1600~~ 1630	8.05	5.5	7.21	1.41	10.66	999	DO - 0.17 ORP (-3)
12-18-04	1645	7.75	7	7.23	1.39	10.59	999	DO - 2.88 ORP - 14
12-18-04	1700	6.25	8.5	7.21	1.33	10.59	999	DO - 8.34 ORP - 7
12-18-04	1730	7.23	10.75	7.23	1.36	10.73	999	DO - 4.12 ORP - 8 cleaned screen on pump - silt was clogging
12-19-04	0830	7.6'	12.25	7.35	1.34	8.61	895	DO - 0.12 ORP - 27
12-19-04	0900	7.4'	15.0	7.29	1.35	9.31	999	DO - 0.22 ORP - 21
12-19-04	0930	7.47	18.25	7.29	1.35	9.61	594	DO - 0.41 ORP - 20
12-19-04	1000	7.86	21.25	7.29	1.35	9.35	645	DO - 0.36 ORP - 20
12-19-04	1030	7.68	24.5	7.29	1.35	9.52	196	DO - 0.62 ORP - 20
12-19-04	1100	7.63	27.5	7.30	1.35	9.45	68.6	DO - 0.71 ORP - 21

calculated well yield at 375-400 ml/min.

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-003
SHEET 2 of 3

PROJECT NAME: PBOW - Acid Area 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-19-04

LOCATION: AA3-GW-003 DATE INSTALLED: 12-3-04

TOTAL DEPTH (FTOC) 20.09 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba ~~U-22~~ U22XD with flow-thru cell

pH Meter EC Meter Turbidity Meter Thermometer

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

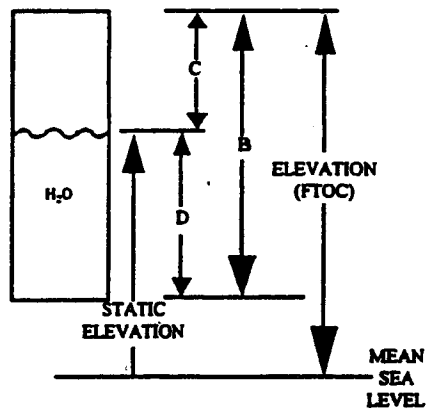
Measured Well Depth (B) 20.09 ft

Measured Water Level Depth (C) 4.06 ft

Length of Static Water Column (D) (B) - (C) = 16.03 ft.

Casing Water Volume (E) = (A) x (D) = 7.76 gal

Total Purge Volume = 38.8 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-19-04	1130	7.57'	30.5	7.30	1.35	9.73	51.6	DO - 0.78 ORP - 22
12-19-04	1200	7.56'	33.5	7.31	1.35	9.54	53.2	DO - 0.85 ORP - 23
12-19-04	1230	7.47'	36.5	7.31	1.35	9.09	106.0	DO - 1.00 ORP - 26
12-19-04	1300	6.58'	39.25	7.32	1.36	8.07	59.8	DO - 1.02 ORP - 29 reduced pumping rate to 200 ml/min
12-19-04	1330	6.40'	41.5	7.31	1.35	7.59	47.4	DO - 0.98 ORP - 33 reduced pumping intake rate to 200 ml/min AFH
12-19-04	1400	5.91'	~~41~~ 43.0 AFH	7.32	1.36	7.59	41.4	DO - 0.92 ORP - 33
12-19-04	1415	5.80'	44.0	7.31	1.35	7.18	34.1	DO - 0.72 ORP - 33
12-19-04	1445	4.88'	44.75	7.36	1.36	3.79	22.0*	DO - 2.43* ORP - 51* flushed out flow-thru cell - removed sediment
12-19-04	1500	4.95'	45.5	7.33	1.36	2.91	28.1	DO - 0.59 ORP - 42
12-19-04	1515	5.39'	46.25	7.31	1.36	6.26	22.6	DO - 0.62 ORP - 38

opening flow thru cell and cleaning affected DO and ORP but improved turbidity

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-003
SHEET 3 of 3

PROJECT NAME: PBOW - Acid Area 2+3 RI PROJECT NO.: 35 BH9304 DATE: 12-19-04

LOCATION: AA3-GW-003 DATE INSTALLED: 12-3-04

TOTAL DEPTH (FTOC) 20.09 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba - U22XD w/ flow-thru cell

pH Meter EC Meter Turbidity Meter Thermometer

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

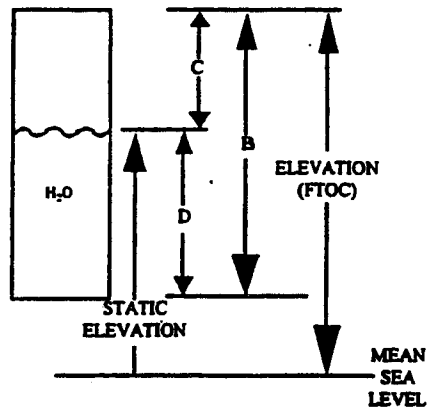
Measured Well Depth (B) 20.09 ft

Measured Water Level Depth (C) 4.06 ft

Length of Static Water Column (D) (B) - (C) = 16.03 ft

Casing Water Volume (E) = (A) x (D) = 7.76 gal

Total Purge Volume = 38.8 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-19-04	1530	5.62'	47	7.32	1.35	7.02	20.7	DO - 0.62 ORP - 35
12-19-04	1545	5.57'	47.75	7.32	1.35	6.60	18.5	DO - 0.61 ORP - 35
12-19-04	1555	5.54'	48.25	7.32	1.36	6.43	17.2	DO - 0.62 ORP - 35

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-004
SHEET 1 of 2

PROJECT NAME: PBOW - Acid Area 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-18-04 to 12-21-04

LOCATION: AA3-GW-004 DATE INSTALLED: 12-4-04

TOTAL DEPTH (FTOC) 20.06' CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe Deconned bladder pump and tubing 12-17-04 after completing development on AA3-GW-005

EQUIPMENT NUMBERS: Horiba U-22xD w/ flow-thru cell

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) ~~8.82~~ AFH 20.06 ft

Measured Water Level Depth (C) 8.82 ft

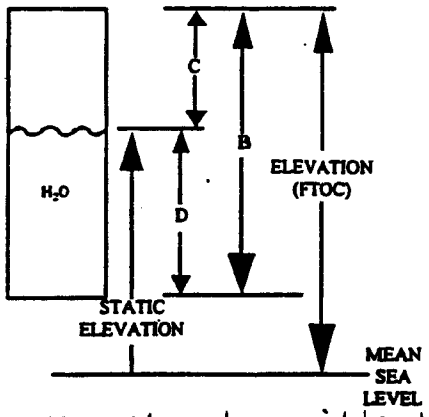
Length of Static Water Column (D) _____ (B) - _____ (C) = 11.24 ft.

11.24' x 0.56 gal/ft =

Casing Water Volume (E) = _____ (A) x _____ (D) = 6.29 gal

x 5

Total Purge Volume = 31.47 (gal)



Started purge at 1158 on 12-18-04 Started purge at 1125 on 12-21-04. set pump intake at 18'

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C *	Turb. (NTU) Sand (ppm)	Comments
12-18-04	1300	11.55	2.5	7.43	0.852	9.60	217	surged well prior to pumping and frequently during pumping
12-18-04	1330	11.88	2.94	7.42	0.861	9.92	96.1	DO - 7.11 ORP - 125 pumping at 55 ml/min
12-18-04	1345	13.65	4.95	7.39	0.875	11.09	52.1	DO - 6.34 ORP - 117 increased pump rate
12-18-04	1400	15.91	7.0	7.42	0.829	11.21	98.8	DO - 5.48 ORP - 94
12-18-04	1415	18.54	8.25	7.49	0.794	10.92	142	DO - 5.04 ORP - 45
12-19-04	1645 to 1730	9.52 - start 18.52 - end	15.75	N/A	N/A	N/A	N/A	purging well to bottom to remove all water
12-20-04	0830 to 0955	11.83 start 18.04 - end	23.75	N/A	N/A	N/A	N/A	purging well to bottom to remove all water
12-21-04	1200	13.36'	26.25	7.39	1.91	9.68	0.7	DO - 4.15 ORP - 15 pump rate 200 ml/min
12-21-04	1230	14.47	28.25	7.44	2.07	10.55	1.8	DO - 4.57 ORP - 15
12-21-04	1300	>15' *	29.75	7.50	1.98	10.89	0.6	DO - 4.04 ORP - (-4)

980 ml + 670 ml

First hour 1300 - DO - 7.59 - ORP - 129

will purge dry

* top of pump @ 15'

* set up equipment inside of van - temperature readings reflect ambient air conditions in van not downhole well conditions.

calculated well yield at 31 ml/min.

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-004
SHEET 2 of 2

PROJECT NAME: PBOW-Acid Area 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-21-04

LOCATION: AA3-GW-004 DATE INSTALLED: 12-4-04

TOTAL DEPTH (FTOC) 20.06 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba - U22XD w/ flow-thru cell

pH Meter EC Meter Turbidity Meter Thermometer

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

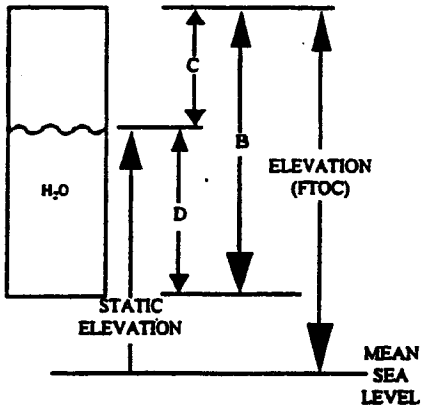
Measured Well Depth (B) 20.06 ft

Measured Water Level Depth (C) 8.82 ft

Length of Static Water Column (D) (B) - (C) = 11.24 ft

Casing Water Volume (E) = (A) x (D) = 6.29 gal

Total Purge Volume = 31.47 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-21-04	1345	>15'	30.75	7.54	1.75	10.35	0.4	DO - 4.47 ORP - (-15)
12-21-04	1400	>15'	31.75	7.53	1.71	10.71	0.2	DO - 4.58 ORP - (-7)
12-21-04	1415	> 15'	32.5	7.53	1.69	10.79	0.2	DO - 4.45 ORP - (-11)

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-005
SHEET 1 of 2

PROJECT NAME: PBOW - Acid Areas 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-13-04 - 12-17-04

LOCATION: AA3-GW-005 DATE INSTALLED: 12-6-04

TOTAL DEPTH (FTOC) 20.08 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☑ Yes ☐ NO

Describe Decontaminated equipment on 12-13-04 using alguinox, potable rinse, and DI by pumping 5 min each in all 3 solutions.

EQUIPMENT NUMBERS: Horiba U22XD w/ flow thru cell.

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) 20.08 ft

Measured Water Level Depth (C) 4.85' ft

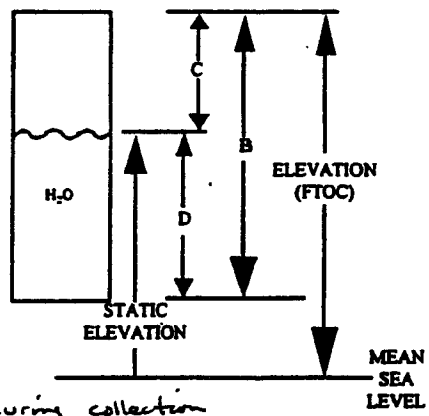
Length of Static Water Column (D) _____ (B) - _____ (C) = 15.23 ft

13' at 0.56 gal/ft. = 7.3 gal 2.23 ft at 0.16 gal/ft = .36 gal

Casing Water Volume (E) = _____ (A) x _____ (D) = 7.66 gal

x5 volumes

Total Purge Volume = 38.3 (gal)



* set pump intake at 15' below TOC on 12-17-04 during collection of water parameters. Pump controller settings max - 60 sec on recharge - 5 sec on charge

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-13-04	1415 to 1600	4.85 - Start >17.0 - End	8.5	N/A	N/A	N/A	N/A	purged to bottom of well. WL below top of pump
12-14-04	0844 to 0936	5.40 - start >17.0 - End	16.0 ~~7.5~~	N/A	N/A	N/A	N/A	purged to bottom of well. WL below top of pump
12-15-04	1057 to 1155	5.17' - Start >17' - End	24.0	N/A	N/A	N/A	N/A	purged to bottom. WL below top of pump
12-16-04	0820 to 0855	5.22' - start >17.0' - End	32.0	N/A	N/A	N/A	N/A	purged to bottom. WL below top of pump.
12-16-04	1610 to 1640	8.39 - Start >17.0' - End	37.0	N/A	N/A	N/A	N/A	purged to bottom - WL below top of pump.
12-17-04	1000	5.38' - start	37.0	N/A	N/A	N/A	N/A	waiting for flow thru cell to fill up.
* 12-17-04	1035	8.48'	37.75	7.24	0.815	8.19°C	10.8	DO - 10.29 ORP - 197
12-17-04	1100	8.60'	38.1	7.53	0.886	4.11°C	7.6	DO - 10.03 ORP - 189
12-17-04	1130	8.78'	38.25	7.59	0.925	2.77°C	6.0	DO - 9.55 ORP - 182
12-17-04	1200	9.02'	38.6	7.60	0.933	2.79°C	4.7	DO - 9.09 ORP - 177

note: Due to very low flow of 50 ml/min - temp readings reflect ambient air temperatures rather than groundwater conditions
estimated volume of water above the pump intake is 5.6 gallons
therefore at least 5.6 gallons may need to be purged for parameters to stabilize

2.23 / .16 / 1338 / 23 / 1.8

.66 / 5 / 3.30

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-GW-005
SHEET 2 of 2

PROJECT NAME: PBOW - Acid Areas 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-17-04

LOCATION: AA3-GW-005 DATE INSTALLED: 12-6-04

TOTAL DEPTH (FTOC) 20.08 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba U22XD w/ flow thru cell

pH Meter EC Meter Turbidity Meter Thermometer

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

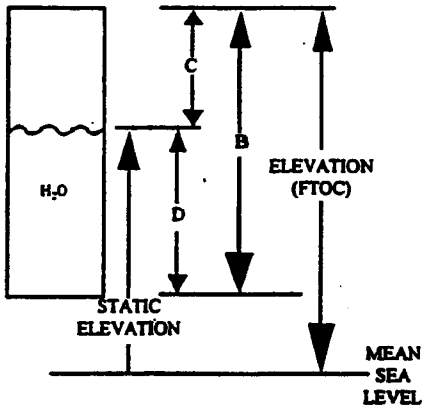
Measured Well Depth (B) 20.08 ft

Measured Water Level Depth (C) 4.85 ft

Length of Static Water Column (D) (B) - (C) = 15.23 ft

Casing Water Volume (E) = (A) x (D) = 7.66 gal

Total Purge Volume = 38.3 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-17-04	1230	9.14'	38.95	7.61	0.942	2.27°C	4.3	DO - 8.60 ORP - 166
12-17-04	1300	9.26'	39.25	7.61	0.934	3.82°C	2.6	DO - 8.42 ORP - 127
12-17-04	1330	9.30'	39.6	7.59	0.935	3.86°C	1.5	DO - 8.24 ORP - 93
12-17-04	1400	9.38'	39.9	7.60	0.929	4.22°C	1.3	DO - 8.01 ORP - 72
12-17-04	1430	9.43'	40.25	7.60	0.931	3.45°C	0.8	DO - 7.80 ORP - 61
12-17-04	1500	9.44'	40.6	7.59	0.936	2.62°C	0.5	DO - 7.46 ORP - 51
12-17-04	1530	9.44'	40.95	7.59	0.941	2.03°C	0.7	DO - 7.28 ORP - 45
12-17-04	1600	9.44'	41.3	7.58	0.938	1.64°C	0.6	DO - 6.99 ORP - 41

calculations for future sampling
well yield is approximately 40 ml/min
purge volume - 4.8 gal (9 hours)
sample volume - 5 L (2 hours)
total estimated time - 11 hours

recharge matches withdrawal rate of 40 ml/min at 9.5'
set top of pump at 10' - intake at 13' to adequately flush upper well volume prior to sampling.
It is assumed productive zone is at or above the top of screen.

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-BEDGW-002
SHEET 1 of 1

PROJECT NAME: PBOW - Acid Areas 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-20-04

LOCATION: AA3-BEDGW-002 DATE INSTALLED: 12-16-04

TOTAL DEPTH (FTOC) 57.47 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe Decontaminated bladder pump and tubing after developing AA3-BEDGW-003

EQUIPMENT NUMBERS: Horiba - U22XD w/ flow-thru cell

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) 57.47 ft

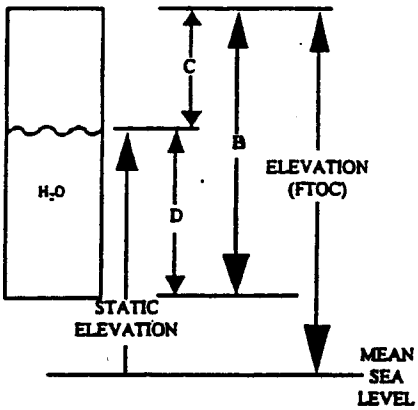
Measured Water Level Depth (C) 31.31 ft

Length of Static Water Column (D) _____ (B) - _____ (C) = 26.16 ft

13 x 0.31 = 4.0 gal + 13.16 x 0.16 = 2.1

Casing Water Volume (E) = _____ (A) x _____ (D) = 6.1 gal

Total Purge Volume = 30.5 (gal)



Started pumping at 1653 12-20-04. Resumed at 0755 12-21-04

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-20-04	1730	~~7.5~~ 32.40'	7.5	7.20	.793	10.99	62.7	DO - 0.00 ORP ~~-70~~ - (-318)
12-20-04	1750	32.42'	11.75	7.22	.827	10.82	21.6	DO - 0.00 ORP - (-319)
12-21-04	0815	31.82'	15.25	7.32	.763	11.20	58.8	DO - 0.00 ORP - (-286)
12-21-04	0830	32.10'	18.5	7.31	.790	11.20	30.8	DO - 0.00 ORP - (-283)
12-21-04	0845	32.10'	22.25	7.29	.804	11.20	21.5	DO - 0.00 ORP - (-279)
12-21-04	0900	32.05'	24.0	7.28	.831	10.81	19.5	DO - 1.07 ORP - (-270) reduced pump rate and fill rate
12-21-04	0915	31.91'	25.75	7.26	.832	10.83	13.4	DO - 0.33 ORP - (-274)
12-21-04	0930	31.91'	27.5	7.26	.862	10.2	3.1	DO - 0.00 ORP - (-273)
12-21-04	0945	31.91'	29.25	7.25	.855	10.8	2.5	DO - 0.00 ORP - (-275)
12-21-04	1000	31.91'	31.0	7.24	.869	10.77	1.9	DO - 0.00 ORP - (-276)

volume of sand pack interval = (0.65 - 0.16) * .3 = 0.15 + 0.16 = .31 gal/ft

calculated well yield at 880 ml/min.

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-BEDGW-00
SHEET 1 of 2

PROJECT NAME: PBOW-Acid Areas 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-20-04

LOCATION: AA3-BEDGW-003 DATE INSTALLED: 12-17-04

TOTAL DEPTH (FTOC) 52.76 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe Deconned equipment - WL meter and bladder pump prior to use

EQUIPMENT NUMBERS: Horiba - U22XD with flow-thru cell

pH Meter ______ EC Meter ______ Turbidity Meter ______ Thermometer ______

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) 52.76' ft

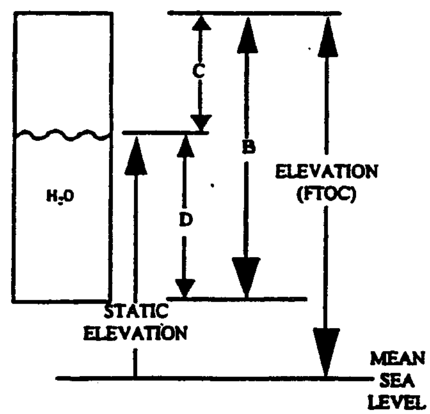
Measured Water Level Depth (C) ~~12.70'~~ AFH ft 12.70'

Length of Static Water Column (D) ______ (B) - ______ (C) = 40.1 ft

13 × 0.31 = 4.0 gal + 27.1 × 0.16 = 4.3 gal

Casing Water Volume (E) = ______ (A) x ______ (D) = 8.3 gal

Total Purge Volume = 41.5 (gal)



started purge at 1205. Set pump rate sufficient to draw WL down to top of screen so as to flush the upper layer out of the well.

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-20-04	1230	20.91'	4.5	7.14	1.27	10.41	28.5	DO - 0.00 ORP - (-359)
12-20-04	1300	26.73'	12.25	7.09	1.32	~~11.3~~ 10.1 AFH	11.3	DO - 0.00 ORP (-380)
12-20-04	1330	30.41'	19.0	7.04	1.40	10.14	12.2	DO - 0.00 ORP (-391)
12-20-04	1400	33.76'	26.75	7.06	1.40	9.98	19.4	DO - 0.00 ORP - (-396)
12-20-04	1415	36.24	30.25	7.04	1.41	9.98	12.8	DO - 0.11 * [illegible] upper layer ORP - (-396)
12-20-04	1430	38.6'	34.0	7.05	1.41	9.84	13.9	DO - 0.27 ORP - (-396)
12-20-04	1445	40.23'	37.5	7.04	1.43	9.96	3.9	DO - 0.37 ORP - (-397) reduced pump rate to allow well to recover.
12-20-04	1500	37.99'	39.5	7.02	1.43	9.82	0.6	DO - 0.44 ORP - (-397)
12-20-04	1515	36.29'	42.5	7.02	1.41	9.39	0.2	DO - 0.58 ORP - (-398)
12-20-04	1530	33.66'	43.75	7.01	1.41	9.61	0.4	DO - 0.61 ORP - (-398)

volume of sand pack interval - (0.65 (4") - 0.16 (2")) × 0.3 (porosity) = 0.15 + 0.16 (2") = .31 gal/ft

calculated well yield at 630 ml/min

Figure 5-4

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID AA3-BEDGW-003
SHEET 2 of 2

PROJECT NAME: PBOW-Acid Areas 2+3 RI PROJECT NO.: 35BH9304 DATE: 12-20-04

LOCATION: AA3-BEDGW-003 DATE INSTALLED: 12-17-04

TOTAL DEPTH (FTOC) 52.76 CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☑ Pumping ☐ Describe Bladder Pump

Equipment decontaminated prior to development ☐ Yes ☐ NO

Describe

EQUIPMENT NUMBERS: Horiba - U22XD w/ flow-thru cell

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION.

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

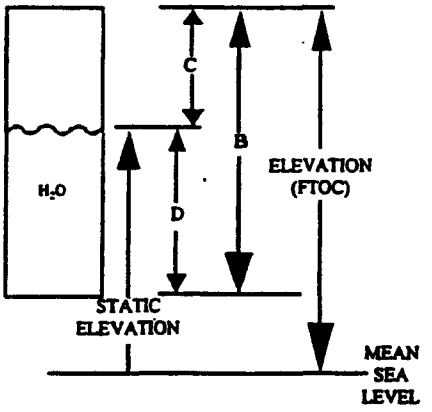
Measured Well Depth (B) 52.76 ft

Measured Water Level Depth (C) 12.70 ft

Length of Static Water Column (D) _____ (B) - _____ (C) = 40.1 ft

Casing Water Volume (E) = _____ (A) x _____ (D) = 8.3 gal

Total Purge Volume = 41.5 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turb. (NTU) Sand (ppm)	Comments
12-20-04 ~~1545~~	1545		44.5	7.02	1.40	9.72	0.2	DO - 0.63 ORP - (-398)

Figure 5-4

APPENDIX J

Appendix J

Chemical Data Quality Report

(evaluation of the primary analytical laboratory data).

CHEMICAL DATA QUALITY REPORT

SOIL AND SEDIMENT DATA FOR THE REMEDIAL INVESTIGATION, PART 1, AT ACID AREAS 2 and 3

FORMER PLUM BROOK ORDNANCE WORKS SANDUSKY, OHIO

Prepared for:

DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
NASHVILLE, TENNESSEE
CONTRACT DACW62-03-D-0004-0004

Prepared by:

JACOBS ENGINEERING
Engineers and Constructors

JACOBS ENGINEERING GROUP, INC.
125 BROADWAY
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August 2005

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ATTACHMENT 1 SAMPLE INFORMATION TABLES

ATTACHMENT 2 TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Abbreviations and Acronyms

C	Celsius
CCV	Continuing Calibration Verification
CDQR	Chemical Data Quality Report
CLP	USEPA Contract Laboratory Program
COC	Chain of Custody
CQAR	Chemical Quality Assurance Report
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
DQA	Data Quality Assessment
DQO	Data Quality Objectives
GC	Gas Chromatograph or Gas Chromatography
HTRW-CX	Hazardous, Toxic, and Radioactive Waste - Center of Expertise
HTW	Hazardous and Toxic Waste
ICV	Initial Calibration Verification
IS	Internal Standard
Jacobs	Jacobs Engineering Group Inc
LCG	Louisville Chemistry Guidance
LCS	Laboratory Control Sample
LDP	Laboratory Data Package
LRL	USACE - Louisville District
MD	Matrix Duplicate
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PAH	Polynuclear Aromatic Hydrocarbon Compounds
PARCC	Precision, Accuracy, Representativeness, Completeness, and Comparability
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl Compounds
PQL	Practical Quantitation Limit
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
QC/MRL	Method Reporting Limit QC sample
QAPP	Quality Assurance Project Plan
%R	Percent Recovery
RL	Reporting Level
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SD	Serial Dilution QC sample
SDG	Sample Delivery Group
SM	Standard Methods
SPLP	Synthetic Precipitation Leaching Procedure
SUR	Surrogate Spike
SVOC	Semi-volatile Organic Compound
SW-846	Solid Waste Analytical Protocols
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
TOC	Total Organic Carbon
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

This Chemical Data Quality Report (CDQR) presents an evaluation of the quality and usability of the analytical data generated in support of the soil and sediment remedial investigation at Acid Areas 2 and 3 at the former Plum Brook Ordnance Works (PBOW). Jacobs Engineering (Jacobs) performed this remedial investigation for the United States Army Corps of Engineers (USACE) Nashville District under contract number DACW62-03-D-0004, task order 0004.

Both primary and quality assurance (QA) environmental samples were collected by Jacobs and were submitted to approved laboratories for chemical analyses. Jacobs provided data quality evaluation services for the primary data, and Stratum Engineering, Inc. was subcontracted to evaluate the QA data and prepare the subsequent Chemical Quality Assurance report (CQAR). This CDQR covers Jacobs' evaluation of the primary data.

This evaluation meets and completes the requirement of Step 2 "data verification" of the project data quality assessment (DQA) process. Completion of this step completes Jacob's portion of the requirement in the DQA process. A description of the DQA process is included in Section 8.2.2 of the approved Quality Assurance Project Plan (QAPP). As specified in the QAPP, the findings of this evaluation were discussed in terms of data precision, accuracy, representativeness, sensitivity and completeness.

1.1 REPORT ORGANIZATION

The CDQR has been organized into four sections and two attachments:

- Section 1 - Report organization and data quality program including: analytical laboratory used, analytical samples included in the evaluation, analytical protocols/methods employed, data evaluation procedures followed, and summary of data reporting formats.
- Section 2 - Definitions of qualifiers that may be assigned to data based on this evaluation.
- Section 3 - Statement of the project overall data quality and summary of qualifiers applied to the data as a result of this evaluation.
- Section 4 - Data quality narratives.
- Attachment 1 - Sample information tables including field and laboratory ID cross-reference.
- Attachment 2 - Test result tables with review qualifiers applied.

1.2 DATA QUALITY ASSURANCE PROGRAM

In order to verify compliance with project objectives, it was required that certain measurements of chemical constituents in environmental samples be made that met definitive data quality standards. This CDQR is applicable to those data.

Definitive data standards are specified by the USEPA in *"Data Quality Objectives Process for Superfund,"* EPA540-R-93-071, USEPA Office of Emergency and Remedial Response, September 1993. Definitive data are defined as follows:

> "Definitive data are generated using rigorous analytical methods, such as approved EPA reference methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data (e.g., chromatograms, spectra, digital values) in the form of paper printouts or computer-generated electronic files. Data may

be generated at the site or at an off-site location, as long as the QA/QC requirements are satisfied. For the data to be definitive, either analytical or total measurement error must be determined."

Specific project data quality objectives (DQOs) and procedures to achieve the DQOs are documented in the approved project Sampling and Analysis Plan Addendum (SAP). Key elements of the quality program relating to this evaluation include:

- Use of approved, USACE-validated laboratories.
- Use of a sampling program designed to meet the project objectives.
- Use of appropriate analytical methods and measurement parameters.
- Evaluation of reported QA/QC to verify compliance with DQOs.
- Use of appropriate analytical data reporting formats.

These elements are discussed in the following paragraphs.

1.2.1 Project Analytical Laboratories

The analytical laboratories employed on this project were evaluated by the USACE Hazardous, Toxic and Radioactive Waste Center of Expertise (HTRW-CX) and hold current letters of validation from HTRW-CX to perform sample analyses in support of the USACE HTRW Program. This validation confirms their ability to produce reliable and defensible data. The primary analytical laboratory used was:

Ecology and Environment, Inc. (E&E)(Primary PAHs and PCBs)
Analytical Services Center
Contact: Alan Laffin
4493 Walden Avenue
Lancaster, NY 14086
Phone: 716-685-8080
Fax: 716-685-0852

1.2.2 Sampling Program Design/Project Samples

The sampling program was designed to collect samples representative of site conditions at the time of sampling and to generate data of sufficient quality and quantity to make the intended decisions. Project analytical samples were collected using standardized, USACE approved procedures documented in the sampling and analysis plan (SAP). The SAP was approved by the USACE prior to collection of the associated project samples and included the basis for selecting the sampling locations, sample collection procedures, frequency and type of samples collected, and the analytical parameters for each sample. There were no known deviations to the sample collection procedures presented in the SAP.

Definitive data measurements were required for the samples collected in support of this investigation. The investigation utilized the EPA Target Analyte List/Target Compound List (TAL/TCL) of analytes as the constituents of concern. The rationale for required analytical measurements and resulting data use is specified in the project QAPP.

Project samples included in this evaluation consist of primary surface and subsurface soils, sediments, and associated field QC samples collected in October and November 2004. The

primary analytical subcontractor reported the soil, sediment, and field QC analyses in several sample delivery groups (SDGs). The SDGs included in this evaluation are:

1. E&E SDG # 0410348
2. E&E SDG # 0410359
3. E&E SDG # 0410374
4. E&E SDG # 0411017
5. E&E SDG # 0411088
6. E&E SDG # 0411103
7. E&E SDG # 0411142
8. E&E SDG # 0411143
9. E&E SDG # 0411164

A listing of specific project samples contained in each SDG, along with a cross reference of sample field ID numbers to laboratory ID numbers, is included in the Sample Information Table at the beginning of each SDG. The respective Sample Information tables have been compiled into a single table listing the samples evaluated from each SDG, and are included with this report as Attachment 1.

1.2.3 Project Analytical Methods and Measurement Parameters

In order to obtain definitive data and promote data comparability, the laboratory was required to perform testing within the guidelines of standardized, USEPA and USACE approved methods and procedures included in the following protocols:

- *"Test Methods for Evaluating Solid Waste,"* SW-846, 3rd Edition, Update III, U.S. EPA, November 1986, (SW-846).
- "*Shell for Analytical Chemistry Requirements*," Appendix I, from EM 200-1-3 "*Requirements for the Preparation of Sampling and Analysis Plans*" USACE HTRW-CX, February 2001.

The project included collection of definitive data for all soil and sediment samples for all measurement parameters. Specific analytical methods used in the analysis of each project sample were included in the laboratory case narratives included in each SDG and are summarized below for each primary sample type.

Surface and Subsurface Soil Samples

- TCL Volatile organic compounds (VOCs) by 5035/8260B
- TCL Semi-volatile organic compounds (SVOCs) by 3540C/8270C
- Polychlorinated biphenyls (PCBs) by 3540C/8082
- Nitroaromatics by SW-846 8330
- TAL Metals by 3050B/6010B/7471A

Sediment Samples

- TCL Volatile organic compounds (VOCs) by 5035/8260B
- TCL Semi-volatile organic compounds (SVOCs) by 3540C/8270C
- Polychlorinated biphenyls (PCBs) by 3540C/8082
- Nitroaromatics by SW-846 8330
- TAL Metals by 3050B/6010B/7471A

1.2.4 Data Evaluation Procedure

The quality of this data set has been evaluated following the "data verification" procedure included in the QAPP as Step 2 of the five-step USACE DQA process. The procedure was derived from the USACE "*Shell for Analytical Chemistry Requirements*" and considers the project DQOs, QC requirements of the analytical methods, and informed professional judgment of the evaluator. Qualified Jacobs personnel, experienced in validation and verification of analytical data quality, performed the data evaluation.

A brief description of the procedure followed in the evaluation is presented below.

Data Verification Procedure

At a minimum, the following data quality issues were addressed in this evaluation with respect to 100% of the sample data.

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.
- Review of field QC blank data to detect contamination from outside sources.
- Review of field QC duplicates to evaluate data reproducibility.
- Review of laboratory QC including laboratory blanks, spike recoveries, and duplicates.
- Verification of calibrations as summarized by the laboratory on the CLP-like reporting forms and within their case narratives.
- Qualification of unusable data as rejected and attachment of appropriate qualifiers to usable data.
- Presentation of data evaluation findings in terms of the data quality parameters precision, accuracy, representativeness, sensitivity and completeness.

Data quality parameters were evaluated as follows:

- Precision - by evaluation of Matrix Spike/Matrix Spike Duplicate (MS/MSD), laboratory duplicate, and field duplicate relative percent differences (RPD).
- Accuracy - by evaluation of surrogate (SUR), Laboratory Control Sample (LCS), and MS/MSD percent recoveries (%R).
- Representativeness - by evaluation of sample receipt records, technical holding times, and blank sample results (field and laboratory).
- Sensitivity - by evaluation of laboratory detection limits, reporting units, and the overall performance of the chosen methods.
- Completeness - by comparing the number of valid measurements obtained to the number of measurements planned for these samples.

1.2.5 Data Reporting Formats

1.2.5.1 Laboratory Data Packages and Analytical Results

The laboratory reported field sample and supporting QC data in a format consistent with the USEPA Contract Laboratory Program (CLP) data reporting requirements. This "CLP-like" format included the applicable report summary forms and was sufficient to complete Step 2 of the DQA process. In a few cases the raw quantitation reports had to be reviewed to evaluate dilutions, manual integrations, and to check for proper quantitation.

The supplied reports did include chromatograms and other raw data that are necessary to complete a third party validation of the DQA process for all parameters of interest. However, third party validation is not currently planned for the Acid Areas. Jacobs has supplied copies of the complete QA data packages and the associated primary sample data to Stratum Engineering to complete the assessment of the QA data and CQAR report.

The complete analytical data packages received from the project laboratories and evaluated in this review are available from Jacobs upon request from the CELRN.

1.2.5.2 Data Quality Non-Conformances

Data quality non-conformances identified as a result of this review are presented in Section 4.0, Data Quality Narratives. The data quality narratives are detailed explanations of the findings of this evaluation in terms of precision, accuracy, representativeness, sensitivity and completeness. The data quality narratives are intended to present a compilation of laboratory QC results found outside project acceptance criteria and provide an assessment of the potential impact those results had on the analytical data. Typically, the bulk of the project analytical protocol requirements are fulfilled and, therefore, are not summarized in the narratives.

Tabular presentations of the analytical sample results were included in each SDG. The respective laboratory test results tables were compiled into Data Summary Tables from the Electronic Data Deliverable (EDD) and were included with this report as Attachment 2. In addition, the validation qualifiers were applied to sample data to indicate data use limitations based on the findings of this evaluation.

2.0 DATA QUALIFIER DEFINITIONS

The following definitions provide explanations of the data qualifiers that may be assigned to results based on this evaluation. The data qualifier definitions are consistent with those used within the USEPA NFG referenced in Section 1.2.3 of this report.

U- The analyte was analyzed for but not detected (ND). The value preceding the U is the Contract Required Quantitation Limit (CRQL).

J- The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).

UJ- This flag is a combination of the U and J qualifiers. This indicates that the analyte is not present and the reported value is considered to be an estimated CRQL.

R- Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample.

B- The B flag is to be used for organic analyses when the analyte is found in the associated blank as well as the in the sample.

N- There is presumptive evidence that the analyte is present, but it has not been confirmed. The analyte is tentatively identified. There is an indication that the reported analyte is present, however, all quality control requirements necessary for confirmation were not met.

3.0 DATA EVALUATION SUMMARY

3.1 OVERALL ASSESSMENT OF PROJECT DATA QUALITY

In general, QA/QC results associated with this data indicated that the data met "definitive data" standards and were of known quality. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site conditions at the time sampled.

Data reported are acceptable for the uses as intended with the required qualifications and limitations. The data users are urged to review the Data Quality Narratives and associated data qualifications before utilizing this data for decision-making.

Summary Of Required Data Qualifications

This section provides a summary of qualifiers applied to the data as a result of this evaluation. Attachment 2 includes tabular presentations of the analytical sample results with data qualifiers applied based on the findings of this evaluation. The data qualifier definitions applied during this review are presented in Section 2.0. Section 4.0, Data Quality Narratives, contains discussion of the evaluation findings along with an assessment of the impact on project data. Data qualified as estimated due to detection at a level below the laboratory quantitation limit but above the method detection limit were not included in this summary since they were not qualified due to QC non-conformance.

SDG E&E 0410348

1. For the VOC (method 8260) analysis of all seven soil samples, methyl acetate was qualified as estimated ("J" for detects and "UJ" for non-detects) due to a marginal low biased ICV recovery.
2. For the VOC (method 8260) analysis of all seven soil samples, 1,2,4-trichlorobenzene was qualified as estimated ("J" for detects and "UJ" for non-detects) due to a low biased LCS recovery.
3. For the SVOC (method 8270) analysis of samples PBOW-04-SD-AA2-SWSD-01A and PBOW-04-SD-AA3-SWSD-01ATR05-1-D, all the base neutral analytes were qualified as estimated ("J" for detects and "UJ" for non-detects) due to a marginal low base neutral surrogate recovery.
4. For the SVOC (method 8270) analysis of all seven soil samples, nine target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
5. For the SVOC (method 8270) analysis of all seven soil samples, hexachlorocyclopentadiene was qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
6. For the SVOC (method 8270) analyses of all seven soil samples, at least one internal standard had high recovery. In most cases two internal standards had high recoveries. The positive results for the analytes associated with the high biased internal standards were qualified as estimated ("J").
7. For the nitroaromatic (method 8330) analysis of all seven soil samples, tetryl was qualified as estimated detects ("J" for detects and "UJ" for non-detects) due to a marginally low biased ICV recovery for the analyte.
8. For the metals (method 6010B/7471A) analysis of all seven samples in this SDG, potassium and manganese were qualified as estimated detects ("J") due to exceedances to the MS

recovery and duplicate precision criteria.

9. For the metals (method 6010B/7471A) analysis of all seven samples in this SDG, antimony was qualified as estimated ("J" for detects and "UJ" for non-detetcs) due to an MS recovery exceedance.

SDG E&E 0410359

1. For the VOC (method 8260) analysis of all twelve soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to a marginal low biased ICV recovery.
2. For the VOC (method 8260) analysis of five of the twelve soil samples, trichlorofluoromethane was qualified as estimated "UJ" for non-detect results due to a marginal low biased CCV recovery.
3. For the VOC (method 8260) analysis of samples PBOW-04-SO-AA2-SB-16A (8-10) and PBOW-04-SO-AA2-SB-17A (8-10), one internal standard had marginally low recoveries. The compounds associated with the internal standard were qualified as estimated ("J" for detects and "UJ" for non-detects) in both samples.
4. For the VOC (method 8260) analysis of sample PBOW-04-SO-AA2-SB-18A (8-10), two internal standards had marginally low recoveries. The compounds associated with the internal standards were qualified as estimated ("J" for detects and "UJ" for non-detects) in the sample.
5. For the SVOC (method 8270) analysis of all twelve soil samples, eight target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
6. For the SVOC (method 8270) analysis of all twelve soil samples, hexachlorocyclopentadiene and 4-nitroaniline were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
7. For the nitroaromatic (method 8330) analysis of all twelve soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.
8. For the metals (method 6010B/7471A) analysis of all twelve samples in this SDG, arsenic, cadmium, and zinc were qualified as estimated "J" for the detects in all twelve samples due to serial dilution exceedances for the compounds.
9. For the metals (method 6010B/7471A) analysis of samples PBOW-04-SO-AA2-SB-16A (3-5) and PBOW-04-SO-AA2-SB-16D(3-5), calcium had a high RPD for the field duplicate precision criteria. The detects for calcium were qualified as estimated ("J") in both the parent sample and field duplicate.
10. For the metals (method 6010B/7471A) analysis of samples PBOW-04-SO-AA2-SB-18A (3-5) and PBOW-04-SO-AA2-SB-18D(3-5), arsenic had a high RPD for the field duplicate precision criteria. The detects for arsenic were qualified as estimated ("J") in both the parent sample and field duplicate.

SDG E&E SDG 0410374

1. For the VOC (method 8260) analysis of all eleven soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to a marginal low biased ICV recovery.
2. For the VOC (method 8260) MS/MSD analysis of soil sample PBOW-04-SO-AA2-SB-22-A(3-5), 1,2,4-trichlorobenzene had marginally low biased recoveries and was qualified as estimated ("UJ") for the ND result in the parent sample.
3. For the VOC (method 8260) analysis of soil sample PBOW-04-SO-AA2-SB-22-A(3-5), one internal standard had a marginally low biased recovery. The compounds associated with the failing internal standard were qualified as estimated ("J" for detects and "UJ" for non-

detects).

4. For the SVOC (method 8270) analysis of all eleven soil samples, five target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
5. For the SVOC (method 8270) analysis of all eleven soil samples, four compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
6. For the nitroaromatic (method 8330) analysis of all eleven soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.
7. For the nitroaromatic (method 8330) analysis of all eleven soil samples, 2,4-dinitrotoluene and 4-nitrotoluene were was qualified as estimated non-detect ("UJ") due to marginally low biased CCV recoveriesy.
8. For the metals (method 6010B/7471A) serial dilution analysis associated with this SDG, arsenic, cadmium, copper, thallium, and zinc had high %D recoveries and the detects for the compounds were qualified as estimated "J".
9. For the metals (method 6010B/7471A) MS/MSD analysis of sample PBOW-04-SO-AA2-SB-22A, potassium and zinc had high biased recoveries. The detects for the compounds were qualified as estimated "J" in the parent sample.

SDG E&E 0411017

1. For the VOC (method 8260) analysis of all ten soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to marginally low biased ICV and CCV recoveries.
2. For the VOC (method 8260) MS/MSD analysis of soil sample PBOW-04-SO-AA2-SB-25-A(3-5), four compounds had marginally low biased recoveries and were qualified as estimated ("UJ") for the ND result in the parent sample.
3. For the VOC (method 8260) analysis of soil samples PBOW-04-SO-AA2-SB-23-A(8-10), PBOW-04-SO-AA2-SB-24-A(0.5-1.5), and PBOW-04-SO-AA2-SB-24-A(3-5), one internal standard had a marginally low biased recoveries. The compounds associated with the failing internal standard were qualified as estimated ("J" for detects and "UJ" for non-detects).
4. For the SVOC (method 8270) analysis of all ten soil samples, seven target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
5. For the SVOC (method 8270) analysis of all ten soil samples, three compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
6. For the SVOC (method 8270) analysis associated with this SDG, an MS/MSD was performed on sample PBOW-04-SO-AA2-SB-25A(3-5). Six PAH compounds had high recoveries and were qualified as estimated "J" for the detects in the parent sample. Four compounds had low biased recoveries in the MS/MSD, but were already qualified based on the low biased LCS recoveries.
7. For the SVOC (method 8270) analyses of samples PBOW-04-SO-AA2-SB-24A(0.5-1.5), PBOW-04-SO-AA2-SB-25A(0.5-1.5), and PBOW-04-SO-AA2-SB-28A(0.5-1.5) one internal standard had high biased recoveries. The positive results for the analytes associated with the high biased internal standards were qualified as estimated ("J").
8. For the nitroaromatic (method 8330) analysis of all ten soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.
9. For the nitroaromatic (method 8330) analysis of all three soil samples, 4-nitrotoluene was qualified as estimated non-detect ("UJ") due to a marginally low biased CCV recovery.
10. Antimony from the total metals analysis (method 6010B) was qualified as estimated ("J" for detects and "UJ" for non-detects) in all samples in this SDG due to marginally low biased MS/MSD recoveries.

11. Manganese failed the precision criteria in the MS/MSD analysis, and the detects in the associated samples for the compound was qualified as estimated ("J").

SDG E&E 0411088

1. For the VOC (method 8260) analysis of all eight soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to marginally low biased ICV and CCV recoveries.
2. For the VOC (method 8260) analysis of soil sample PBOW-04-SO-AA3-SB-22-A(8-10), one internal standard had a marginally low biased recoveries. The compounds associated with the failing internal standard were qualified as estimated ("J" for detects and "UJ" for non-detects).
3. For the SVOC (method 8270) analysis of all eight soil samples, six target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
4. For the SVOC (method 8270) analysis of all eight soil samples, two compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
5. Antimony from the total metals analysis (method 6010B) was qualified as estimated ("J" for detects and "UJ" for non-detects) in all samples in this SDG due to marginally low biased MS/MSD recoveries.
6. Calcium, magnesium, manganese, and potassium were qualified as estimated "J" for detects only in the eight associated samples due to high biased MS/MSD recoveries.

SDG E&E 0411103

1. For the VOC (method 8260) analysis of all nine soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to marginally low biased ICV and CCV recoveries.
2. For the VOC (method 8260) analysis of soil samples PBOW-04-SO-AA3-SB-24-A(8-10) and PBOW-04-SO-AA3-SB-16-A(8-10), one internal standard had a marginally low biased recoveries. The compounds associated with the failing internal standard were qualified as estimated ("J" for detects and "UJ" for non-detects).
3. For the SVOC (method 8270) analysis of all nine soil samples, five target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
4. For the SVOC (method 8270) analysis of all nine soil samples, four compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
5. Five metals analytes (chromium, copper, lead, nickel, and zinc) were qualified as estimated detects in all eight samples in this SDG due to serial dilution precision outliers.

SDG E&E 0411142

1. For the VOC (method 8260) analysis of all three soil samples, methyl acetate was qualified as estimated "UJ" for non-detect results due to marginally low biased ICV and CCV recoveries.
2. For the SVOC (method 8270) analysis of all three soil samples, seven target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
3. For the SVOC (method 8270) analysis of all three soil samples, three compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low

biased LCS recovery.

4. For the nitroaromatic (method 8330) analysis of all three soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.

SDG E&E 0411143

1. For the VOC (method 8260) analysis of all eight soil samples, methyl acetate was qualified as estimated ("J" for detects in four samples and "UJ" for the non-detect results in four samples) due to marginally low biased ICV and CCV recoveries.
2. For the SVOC (method 8270) analysis of three soil samples, six target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
3. For the SVOC (method 8270) analysis of three remaining five samples, seven target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low biased LCS recoveries.
4. For the SVOC (method 8270) analysis of three soil samples, two compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
5. For the SVOC (method 8270) analysis of three remaining five samples, three compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
6. For the nitroaromatic (method 8330) analysis of all eight soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.
7. Arsenic was qualified as estimated "J" for detects in all eight samples in this SDG due to a serial dilution precision outlier.
8. Antimony was qualified as estimated ("J" for detects and "UJ" for non-detects) in all eight samples in this SDG due to a low biased MS/MSD recovery.
9. Calcium, magnesium, and manganese were qualified as estimated "J" for the detects in all eight samples due to high biased MS/MSD recoveries.
10. Manganese was qualified as estimated "J" for the detects in all eight samples due to a MS/MSD RPD precision outlier.

SDG E&E 0411164

1. For the VOC (method 8260) analysis of all fifteen soil samples, methyl acetate was qualified as estimated ("J" for detects and "UJ" for the non-detect results) due to marginally low biased ICV and CCV recoveries.
2. For the VOC (method 8260) analysis samples PBOW-04-SO-AA3-SB-19A(3-5) and PBOW-04-SO-AA3-SB-19D(3-5) are a parent sample and field duplicate pair. 2-Butanone had a high RPD for the pair and the detect in both the parent sample and the field duplicate were qualified as estimated "J".
3. For the VOC (method 8260) analysis samples PBOW-04-SO-AA3-SB-23A(3-5) and PBOW-04-SO-AA3-SB-23D(3-5) are a parent sample and field duplicate pair. Benzene had a high RPD for the pair and the detect in both the parent sample and the field duplicate were qualified as estimated "J".
4. For the VOC (method 8260) analysis of soil samples PBOW-04-SO-AA3-SB-19-A(8-10), PBOW-04-SO-AA3-SB-23-A(3-5), PBOW-04-SO-AA3-SB-23-D(3-5),and PBOW-04-SO-AA3-SB-23-A(8-10), one internal standard had a marginally low biased recoveries. The compounds associated with the failing internal standard were qualified as estimated ("J" for detects and "UJ" for non-detects).
5. For the SVOC (method 8270) analysis of all fifteen samples, seven target analytes were qualified as estimated ("J") for detects and rejected ("R") for non-detects due to very low

biased LCS recoveries.

6. For the SVOC (method 8270) analysis of fifteen samples, four compounds were qualified as an estimated ("J" for detects and "UJ" for non-detects) due to a marginally low biased LCS recovery.
7. For the PCB (8082) analysis samples PBOW-04-SO-AA3-SB-23A(3-5) and PBOW-04-SO-AA3-SB-23D(3-5) are a parent sample and field duplicate pair. Aroclor 1260 was detected in the field duplicate but not in the parent sample. The non-detect result in the parent was qualified as estimated "UJ" and the detect in the field duplicate was qualified estimated "J".
8. For the nitroaromatic (method 8330) analysis of all fifteen soil samples, tetryl was qualified as estimated non-detect ("UJ") due to a marginally low biased ICV recovery for the analyte.
9. Manganese, nickel, vanadium, and cobalt were qualified as estimated "J" for detects in the samples associated with this SDG due to a serial dilution precision outlier.
10. Antimony and manganese were qualified as estimated ("J" for detects and "UJ" for non-detects) in all fifteen samples in this SDG due to a low biased MS/MSD recovery.
11. Barium, nickel, potassium, vanadium, and zinc were qualified as estimated "J" for the detects in the samples associated with this SDG due to high biased MS/MSD recoveries.

4.0 DATA QUALITY NARRATIVES

The findings of this data quality evaluation are presented below in terms of precision, accuracy, representativeness, sensitivity and completeness.

4.1 DATA PRECISION

4.1.1 Field QC Duplicate Precision Review

Project field duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The metals field duplicate performed on samples PBOW-04-SO-AA2-SB-18-A (3-5) and PBOW-04-SO-AA2-SB-18-D (3-5) had an RPD outlier as detailed in the table below. The RPD exceeded the project criteria (<50% RPD) for soil samples. The positive results in both the parent sample and the field duplicate were qualified as estimated "J".

Analyte	RPD	Qualifier
Arsenic	131%	J

2. The VOC field duplicate performed on samples PBOW-04-SO-AA3-SB-19-A (3-5) and PBOW-04-SO-AA3-SB-19-D (3-5) had an RPD outlier as detailed in the table below. The RPD exceeded the project criteria (<50% RPD) for soil samples. The positive results in both the parent sample and the field duplicate were qualified as estimated "J". In addition, methyl acetate was detected in PBOW-04-SO-AA3-SB-19-A (3-5), but not detected in PBOW-04-SO-AA3-SB-19-D (3-5). Methyl acetate was already qualified as estimated J/UJ due to an ICV outlier.

Analyte	RPD	Qualifier
2-Butanone	79.6%	J

3. The VOC field duplicate performed on samples PBOW-04-SO-AA3-SB-23-A (3-5) and PBOW-04-SO-AA3-SB-23-D (3-5) had an RPD outlier as detailed in the table below. The RPD exceeded the project criteria (<50% RPD) for soil samples. The positive results in both the parent sample and the field duplicate were qualified as estimated "J".

Analyte	RPD	Qualifier
Benzene	65%	J

4. The SVOC field duplicate performed on samples PBOW-04-SO-AA3-SB-17-A (0.5-1.5) and PBOW-04-SO-AA3-SB-17-D (0.5-1.5) did not have any RPD outliers, but did have a compound detected in the field duplicate that was not detected in the parent sample. Butyl benzyl phthalate is a common lab contaminant and was as qualified as estimated "J" in the field duplicate.

5. The SVOC field duplicate performed on samples PBOW-04-SO-AA3-SB-21-A (8-10) and PBOW-04-SO-AA3-SB-21-D (8-10) did not have any RPD outliers, but did have a compound

detected in the field duplicate that was not detected in the parent sample. Bis(2-ethylhexyl)phthalate is a common lab contaminant and was as qualified as estimated "J" in the field duplicate.

6. The PCB field duplicate performed on samples PBOW-04-SO-AA3-SB-23-A (3-5) and PBOW-04-SO-AA3-SB-23-D (3-5) did not have any RPD outliers, but did have a compound detected in the field duplicate that was not detected in the parent sample. The positive result for Aroclor 1260 in the field duplicate sample was qualified as estimated "J", and the non-detect result in the parent sample was qualified as "UJ".

4.1.2 Laboratory Duplicate Precision Review

Project laboratory duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The total metals MS/MSD performed on sample PBOW-04-SD-AA3-SWSD-01-A had an RPD exceedances (>20%). The exceedance and resulting qualification for all samples in the SDG is detailed below in the table. The detects for the failing compounds were qualified as "J" in all associated samples in the SDG to indicate this precision outlier.

Analyte	RPD	Qualifier
Manganese	134.7%	J

2. The metals serial dilution performed on sample PBOW-04-SO-AA2-SB-17-A (8-10) had three %D outliers as detailed in the table below. The positive results for the compounds were qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Arsenic	48.5%	J
Cadmium	13.1%	J
Zinc	16.1%	J

3. The metals serial dilution performed on sample PBOW-04-SO-AA2-SB-27-A (3-5) had five %D outliers as detailed in the table below. The positive results for the compounds were qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Arsenic	19.6%	J
Cadmium	12.9%	J
Copper	13.0%	J
Thallium	51.5%	J
Zinc	11.8%	J

4. The total metals MS/MSD performed on sample PBOW-04-SO-AA2-SB-25-A (3-5) had an RPD exceedances (>20%). The exceedance and resulting qualification for all samples in the SDG is detailed below in the table. The detects for the failing compounds were qualified as "J" in all associated samples in the SDG to indicate this precision outlier.

Analyte	RPD	Qualifier
Manganese	427%	J

5. The total metals MS/MSD performed on sample PBOW-04-SO-AA3-SB-18-A (3-5) had an RPD exceedances (>20%). The exceedance and resulting qualification for all samples in the SDG is detailed below in the table. The detects for the failing compounds were qualified as "J" in all associated samples in the SDG to indicate this precision outlier.

Analyte	RPD	Qualifier
Manganese	142.4%	J

6. The metals serial dilution performed on sample PBOW-04-SO-AA3-SB-25-A (8-10) had four %D outliers as detailed in the table below. The positive results for the compounds were qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Chromium	10.4%	J
Copper	20.1%	J
Nickel	11.8%	J
Zinc	25.4%	J

7. The metals serial dilution performed on sample PBOW-04-SO-AA2-SB-25-A (3-5) had one %D outlier as detailed in the table below. The positive results for the compound was qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Lead	11%	J

8. The metals serial dilution performed on sample PBOW-04-SO-AA3-SB-29-A (3-5) had a %D outlier as detailed in the table below. The positive results for the compound was qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Arsenic	130%	J

9. The total metals MS/MSD performed on sample PBOW-04-SO-AA3-SB-27-A (3-5) had three RPD exceedances (>20%). The exceedances and resulting qualification for all samples in the SDG are detailed below in the table. The detects for the failing compounds were qualified as "J" in all associated samples in the SDG to indicate this precision outlier.

Analyte	RPD	Qualifier
Calcium	62.9%	J
Magnesium	40.9%	J
Manganese	27.6%	J

10. The metals serial dilution performed on sample PBOW-04-SO-AA3-SB-23-A (8-10) had four %D outliers as detailed in the table below. The positive results for the compounds were

qualified as estimated "J" in the associated samples in the SDG to indicate the potential imprecise measurement.

Analyte	RPD	Qualifier
Manganese	11.1%	J
Nickel	10.4%	J
Vanadium	14.3%	J
Cobalt	14.4%	J

4.2 DATA ACCURACY

4.2.1 Data Accuracy Indicators Review

Project accuracy indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification. Instances where dilutions caused surrogate or spike recoveries to be diluted out (dilutions greater than 4X) are not discussed as findings if qualification was not deemed necessary.

Specific Findings: SDG E&E 0410348

1. The VOC LCS/LCSD associated with the trip blank had one marginally low biased recovery and two marginally high biased recoveries. PBOW-04-TB-102704-02 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Acetone	74% in LCS	J detect in TB
Dichlorodifluoromethane	131% in MS, 124% in MSD	None ND in TB
Trichlorofluoromethane	123% in MS, 126% in MSD	None ND in TB

2. The VOC LCS associated with the soil samples in this SDG had two marginally high biased recoveries. Only samples PBOW-04-SD-AA2-SWSD-02-A and PBOW-04-SD-AA2-SWSD-02-A had detects for the compounds and were qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Methyl acetate	126% in LCS	J detects
Trichlorofluoromethane	135% in LCS	None ND in all samples

3. The VOC MS/MSD performed on sample PBOW-04-SD-AA3-SWSD-01-A associated with the soil samples in this SDG had several low biased recoveries and two marginally high biased recoveries. Samples PBOW-04-SD-AA3-SWSD-01-A was qualified as detailed in the following table:

Analyte	% Recovery MS/MSD	Qualifier
1,2,4-Trichlorobenzene	39% / 42%	UJ the ND in parent sample
1,2-Dibromo-3-chloropropane	63% / 69%	None – within SMF
1,2-Dichlorobenzene	65% in MS	None – within SMF
1,3-Dichlorobenzene	69% in MS	None – within SMF
1,4-Dichlorobenzene	69% in MS	None – within SMF
Methyl acetate	131% / 133%	Already J due to LCS

4. The VOC Initial Calibration Verification (ICV) associated with all seven of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all seven soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SD-AA2-SWSD-01A PBOW-04-SD-AA2-SWSD-02A PBOW-04-SD-AA2-SWSD-02D PBOW-04-SD-AA2-SWSD-03A PBOW-04-SD-AA3-SWSD-01A PBOW-04-SD-AA3-SWSD-02A PBOW-04-SD-AA3-SWSD-03A	J/UJ

5. The VOC Continuing Calibration Verifications (CCVs) associated with all seven soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for two compounds. The finding indicated a potential high bias for the analytes, thus the results were qualified as estimated ("J" for detects only) for the results in all seven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+32.26%	PBOW-04-SD-AA2-SWSD-01A PBOW-04-SD-AA2-SWSD-02A PBOW-04-SD-AA2-SWSD-02D PBOW-04-SD-AA2-SWSD-03A PBOW-04-SD-AA3-SWSD-01A PBOW-04-SD-AA3-SWSD-02A PBOW-04-SD-AA3-SWSD-03A	Already J/UJ due to ICV
Trichlorofluoromethane	+29.93	PBOW-04-SD-AA2-SWSD-01A PBOW-04-SD-AA2-SWSD-02A PBOW-04-SD-AA2-SWSD-02D PBOW-04-SD-AA2-SWSD-03A PBOW-04-SD-AA3-SWSD-01A PBOW-04-SD-AA3-SWSD-02A PBOW-04-SD-AA3-SWSD-03A	None All ND

6. All seven of the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#5 Chrysene-d12 IS#6 Perylene-d12	High	PBOW-04-SD-AA2-SWSD-01A PBOW-04-SD-AA2-SWSD-02A PBOW-04-SD-AA3-SWSD-01A PBOW-04-SD-AA3-SWSD-02A PBOW-04-SD-AA3-SWSD-03A	J detects only associated with IS 5 and IS 6
IS#5 Chrysene-d12	High	PBOW-04-SD-AA2-SWSD-02D PBOW-04-SD-AA2-SWSD-03A	J detects only associated with IS 5

7. The SVOC LCS/MS/MSD associated with all seven soil samples in this SDG had ten low biased recoveries that resulted in qualification of all seven soil samples as detailed in the following table:

Analyte	LCS % R	MS/MSD % R	Qualifier
Atrazine	0% (not spiked)	0% / 0% (not spiked)	J/R
Acetophenone	0% (not spiked)	0% / 0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	0% / 0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	0% / 0% (not spiked)	J/R
Caprolactam	0% (not spiked)	0% / 0% (not spiked)	J/R
3,3-Dichlorobenzidine	0%	0% / 0%	J/R
4-Chloroaniline	0%	0% / 0%	J/R
3-Nitroaniline	22%	0% / 0%	J/R
4-Nitroaniline	43%	25% / 25%	J/UJ
Hexachlorocyclopentadiene	44%	29% / 0%	J/UJ

8. For the SVOC analysis two samples had a marginally low base-neutral surrogate recovery. All base-neutral compounds in samples PBOW-04-SD-AA2-SWSD-01 and PBOW-04-SD-AA3-SWSD-01 were qualified as estimated ("J" for detects and "UJ" for non-detects).

9. The nitroaromatics ICV associated with all seven soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all seven soil samples were qualified as estimated "UJ".

10. The metals MS/MSD analysis performed on sample PBOW-04-SD-AA3-SWSD-01-A associated with this SDG recovered marginally low for one compound, low for one compound, and high for one compound. The outliers and resulting qualification is detailed below in the table for all seven associated soils in the SDG.

Analyte	% Recovery	Qualifier
Antimony	50% in MS, 52% in MSD	J/UJ
Manganese	16% in MSD	J/R
Potassium	141% in MS, 132% in MSD	J detects only

Specific Findings: SDG E&E 0410359

1. The VOC LCS/LCSD associated with the trip blank had one marginally low biased recovery and two marginally high biased recoveries. PBOW-04-TB-102804-02 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Acetone	74% in LCS	J detect in TB
Dichlorodifluoromethane	131% in MS, 124% in MSD	None ND in TB
Trichlorofluoromethane	123% in MS, 126% in MSD	None ND in TB

2. The VOC LCS associated with the soil samples in this SDG had two marginally high biased recoveries. None of the associated samples had detects for the compounds, thus, no qualification was necessary.

3. The VOC Initial Calibration Verification (ICV) associated with all twelve of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all twelve soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA2-SB-16A(0.5-1.5) PBOW-04-SO-AA2-SB-16A(3-5) PBOW-04-SO-AA2-SB-16D(3-5) PBOW-04-SO-AA2-SB-16A(8-10) PBOW-04-SO-AA2-SB-18A(0.5-1.5) PBOW-04-SO-AA2-SB-18D(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18D(3-5) PBOW-04-SO-AA2-SB-18A(8-10) PBOW-04-SO-AA2-SB-17A(0.5-1.5) PBOW-04-SO-AA2-SB-17A(3-5) PBOW-04-SO-AA2-SB-17A(8-10)	J/UJ

4. The VOC Continuing Calibration Verifications (CCVs) associated with all twelve soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for two compounds. The finding indicated a potential high bias for the analytes, thus the results were qualified as estimated ("J" for detects only) for the results in all twelve associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Trichlorofluoromethane	+29.93	PBOW-04-SO-AA2-SB-16A(0.5-1.5) PBOW-04-SO-AA2-SB-16A(3-5) PBOW-04-SO-AA2-SB-16D(3-5) PBOW-04-SO-AA2-SB-16A(8-10) PBOW-04-SO-AA2-SB-18A(0.5-1.5)	None All ND
Methyl acetate	+32.26%	PBOW-04-SO-AA2-SB-16A(0.5-1.5) PBOW-04-SO-AA2-SB-16A(3-5) PBOW-04-SO-AA2-SB-16D(3-5) PBOW-04-SO-AA2-SB-16A(8-10) PBOW-04-SO-AA2-SB-18A(0.5-1.5)	Already J/UJ due to ICV
Methyl acetate	+32.98	PBOW-04-SO-AA2-SB-18D(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18D(3-5) PBOW-04-SO-AA2-SB-18A(8-10) PBOW-04-SO-AA2-SB-17A(0.5-1.5) PBOW-04-SO-AA2-SB-17A(3-5) PBOW-04-SO-AA2-SB-17A(8-10)	None All ND

5. Three of the VOC samples in this SDG had low biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA2-SB-16A(8-10) PBOW-04-SO-AA2-SB-17A(8-10)	J/UJ analytes associated with IS 3
IS#2 Chlorobenzene-d5 IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA2-SB-18A(8-10)	J/UJ analytes associated with IS 2 and IS 3

6. The SVOC LCS associated with all twelve soil samples in this SDG had ten low biased recoveries that resulted in qualification of all twelve soil samples as detailed in the following table:

Analyte	LCS % R	Qualifier
Atrazine	0% (not spiked)	J/R
Acetophenone	0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	J/R
Caprolactam	0% (not spiked)	J/R
3,3-Dichlorobenzidine	0%	J/R
4-Chloroaniline	0%	J/R
3-Nitroaniline	22%	J/R
4-Nitroaniline	43%	J/UJ
Hexachlorocyclopentadiene	44%	J/UJ

7. Two of the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#6 Perylene-d12	High	PBOW-04-SO-AA2-SB-18D(3-5) PBOW-04-SO-AA2-SB-16A(8-10)	J detects only associated with IS 6

8. The nitroaromatics ICV associated with all twelve soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all twelve soil samples were qualified as estimated "UJ".

Specific Findings: SDG E&E 0410374

1. The VOC LCS/LCSD associated with the trip blank had two marginally high biased recoveries. PBOW-04-TB-102904-02 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Dichlorodifluoromethane	131% in MS, 124% in MSD	None ND in TB
Trichlorofluoromethane	123% in MS, 126% in MSD	None ND in TB

2. The VOC LCS associated with the soil samples in this SDG had one marginally high biased recovery. None of the associated samples had a detect for the compound (methyl acetate), thus, no qualification was necessary.

3. The VOC Initial Calibration Verification (ICV) associated with all eleven of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all eleven soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-20A(3-5) PBOW-04-SO-AA2-SB-20A(8-10) PBOW-04-SO-AA2-SB-19A(0.5-1.5) PBOW-04-SO-AA2-SB-19A(3-5) PBOW-04-SO-AA2-SB-21A(0.5-1.5) PBOW-04-SO-AA2-SB-21A(3-5) PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-27A(0.5-1.5) PBOW-04-SO-AA2-SB-27A(3-5)	J/UJ

4. The VOC Continuing Calibration Verifications (CCVs) associated with all eleven soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for one compound. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eleven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+32.26% and +55.57%	PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-20A(3-5) PBOW-04-SO-AA2-SB-20A(8-10) PBOW-04-SO-AA2-SB-19A(0.5-1.5) PBOW-04-SO-AA2-SB-19A(3-5) PBOW-04-SO-AA2-SB-21A(0.5-1.5) PBOW-04-SO-AA2-SB-21A(3-5) PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-27A(0.5-1.5) PBOW-04-SO-AA2-SB-27A(3-5)	Already J/UJ due to ICV

5. One of the VOC samples in this SDG had a low biased internal standard failure. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the sample as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA2-SB-22A(3-5)	J/UJ analytes associated with IS 3

6. The VOC MS/MSD performed on sample PBOW-04-SO-AA2-SB-22-A(3-5) had one marginally low biased outlier and two high biased outliers. The parent sample was qualified as detailed in the table below.

Analyte	% Recovery MS/MSD	Qualifier
1,2,4-Trichlorobenzene	59% / 50%	UJ the ND in parent sample
Chloromethane	131% in MSD	None – ND in parent
Methyl acetate	148% / 151%	None – ND in parent

7. Five of the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#6 Perylene-d12	High	PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-20A(3-5) PBOW-04-SO-AA2-SB-20A(8-10) PBOW-04-SO-AA2-SB-19A(0.5-1.5) PBOW-04-SO-AA2-SB-19A(3-5) PBOW-04-SO-AA2-SB-21A(0.5-1.5) PBOW-04-SO-AA2-SB-21A(3-5) PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-27A(0.5-1.5) PBOW-04-SO-AA2-SB-27A(3-5)	J detects only associated with IS 6

8. The SVOC LCS/MS/MSD associated with all seven soil samples in this SDG had ten low biased recoveries that resulted in qualification of all seven soil samples as detailed in the following table:

Analyte	LCS % R	MS/MSD % R	Qualifier
Atrazine	0% (not spiked)	0% / 0% (not spiked)	J/R
Acetophenone	0% (not spiked)	0% / 0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	0% / 0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	0% / 0% (not spiked)	J/R
Caprolactam	0% (not spiked)	0% / 0% (not spiked)	J/R
3,3-Dichlorobenzidine	31%	0% / 0%	J/R
4-Chloroaniline	36%	16% / 22%	J/UJ
3-Nitroaniline		37% / 37%	J/UJ
4-Nitroaniline	58%	36%	J/UJ
Hexachlorocyclopentadiene	47%	34%	J/UJ

9. The nitroaromatics ICV associated with all eleven soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all eleven soil samples were qualified as estimated "UJ".

10. The nitroaromatics CCV associated with all eleven soil samples in this SDG had marginally low biased percent differences for 2,4-Dinitrotoluene (15.7%) and 4-Nitrotoluene(17.1%). The non-detect results for 2,4-DNT and 4-NT in all eleven soil samples were qualified as estimated "UJ".

11. The metals MS/MSD analysis performed on sample PBOW-04-SO-AA2-SB22-A(3-5) associated with this SDG recovered high for two compounds. The outliers and resulting qualification is detailed below in the table for all eleven associated soils in the SDG.

Analyte	% Recovery	Qualifier
Potassium	136% in MS, 204% in MSD	J detects only
Zinc	1355% in MS, 748% in MSD	J detects only

Specific Findings: SDG E&E 0411017

1. The VOC LCS/LCSD associated with the trip blank had one marginally low biased recovery. PBOW-04-TB-110104-02 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Acetone	69% in LCS 64% in LCSD	J detect in TB

2. The VOC LCS' associated with the soil samples in this SDG had marginally high biased recoveries for methyl acetate and trichlorofluoromethane. None of the associated samples had detects for the compounds, thus, no qualification was necessary.

3. The VOC MS/MSD performed on sample PBOW-04-SO-AA2-SB-25-A(3-5) associated with the soil samples in this SDG had several low biased recoveries. Sample PBOW-04-SO-AA2-SB-25-A(3-5) was qualified as detailed in the following table:

Analyte	% Recovery MS/MSD	Qualifier
1,2,4-Trichlorobenzene	37% / 30%	UJ the ND in parent sample
1,2-Dichlorobenzene	66% / 51%	UJ the ND in parent sample
1,3-Dichlorobenzene	69% / 50%	UJ the ND in parent sample
1,4-Dichlorobenzene	68% / 51%	UJ the ND in parent sample
Methylcyclohexane	56% in MSD	UJ the ND in parent sample

4. The VOC Initial Calibration Verification (ICV) associated with all ten of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all ten soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA2-SB-23A(0.5-1.5) PBOW-04-SO-AA2-SB-23A(3-5) PBOW-04-SO-AA2-SB-23A(8-10) PBOW-04-SO-AA2-SB-28A(0.5-1.5) PBOW-04-SO-AA2-SB-28A(3-5) PBOW-04-SO-AA2-SB-28A(8-10)RA PBOW-04-SO-AA2-SB-24A(0.5-1.5) PBOW-04-SO-AA2-SB-24A(3-5) PBOW-04-SO-AA2-SB-25A(0.5-1.5) PBOW-04-SO-AA2-SB-25A(3-5)	J/UJ

5. The VOC Continuing Calibration Verifications (CCVs) associated with all ten soil samples in

this SDG failed the percent drift criteria marginally with a positive or high bias for several compounds. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eleven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+55.57%	PBOW-04-SO-AA2-SB-23A(0.5-1.5) PBOW-04-SO-AA2-SB-23A(3-5) PBOW-04-SO-AA2-SB-23A(8-10) PBOW-04-SO-AA2-SB-28A(0.5-1.5) PBOW-04-SO-AA2-SB-28A(3-5) PBOW-04-SO-AA2-SB-24A(0.5-1.5) PBOW-04-SO-AA2-SB-24A(3-5) PBOW-04-SO-AA2-SB-25A(0.5-1.5) PBOW-04-SO-AA2-SB-25A(3-5)	Already J/UJ due to ICV
Methyl acetate	+42.62	PBOW-04-SO-AA2-SB-28A(8-10)RA	Already J/UJ due to ICV
Trichlorofluoromethane	+26.18	PBOW-04-SO-AA2-SB-28A(8-10)RA	None All ND
2-Butanone	+32.26	PBOW-04-SO-AA2-SB-28A(8-10)RA	None All ND
2-Hexanone	+20.11	PBOW-04-SO-AA2-SB-28A(8-10)RA	None All ND
Bromoform	+22.90	PBOW-04-SO-AA2-SB-28A(8-10)RA	None All ND

6. Three of the VOC samples in this SDG had a low biased internal standard failure. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the sample as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA2-SB-23A(8-10) PBOW-04-SO-AA2-SB-24A(0.5-1.5) PBOW-04-SO-AA2-SB-24A(3-5)	J/UJ analytes associated with IS 3

7. Four of the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#6 Perylene-d12	High	PBOW-04-SO-AA2-SB-24A(0.5-1.5) PBOW-04-SO-AA2-SB-25A(0.5-1.5) PBOW-04-SO-AA2-SB-28A(0.5-1.5) PBOW-04-SO-AA2-SB-24A(3-5) DL	J detects only associated with IS 6
IS#6 Perylene-d12	High	PBOW-04-SO-AA2-SB-24A(3-5) DL	None – DL only used for a few unassociated compounds

8. The SVOC LCS/MS/MSD associated with all ten soil samples in this SDG had ten low biased recoveries that resulted in qualification of all ten soil samples as detailed in the following table:

Analyte	LCS % R	MS/MSD % R	Qualifier
Atrazine	0% (not spiked)	0% / 0% (not spiked)	J/R
Acetophenone	0% (not spiked)	0% / 0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	0% / 0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	0% / 0% (not spiked)	J/R
Caprolactam	0% (not spiked)	0% / 0% (not spiked)	J/R
3,3-Dichlorobenzidine	0%	0% / 0%	J/R
4-Chloroaniline	19%	21% in MS	J/UJ
3-Nitroaniline	41%	38% / 39%	J/UJ
4-Nitroaniline	53%	44% / 41%	J/UJ
Hexachlorocyclopentadiene	33%	36% in MSD	J/UJ

9. The nitroaromatics ICV associated with all ten soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all ten soil samples were qualified as estimated "UJ".

10. The nitroaromatics CCV associated with three soil samples in this SDG had a marginally low biased percent difference for 4-Nitrotoluene(17.1%). The non-detect results for 4-NT were qualified as estimated "UJ" in samples PBOW-04-SO-AA2-SB-23A(0.5-1.5), PBOW-04-SO-AA2-SB-23A(3-5), and PBOW-04-SO-AA2-SB-23A(8-10).

11. The metals MS/MSD analysis performed on sample PBOW-04-SD-AA2-SB-25-A (3-5) associated with this SDG recovered marginally low for one compound. The outliers and resulting qualification is detailed below in the table for all ten associated soils in the SDG.

Analyte	% Recovery	Qualifier
Antimony	71% in MS, 71% in MSD	J/UJ

Specific Findings: SDG E&E 0411088

1. The VOC LCS associated with the trip blank had one low biased recovery. PBOW-04-TB-110404-01 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Acetone	23% in LCS	J detect in TB

2. The VOC LCS associated with the soil samples in this SDG had a marginally high biased recovery for methyl acetate. None of the associated samples had detects for the compound, thus, no qualification was necessary.

3. The VOC MS/MSD performed on sample PBOW-04-SO-AA3-SB-18-A(3-5) associated with the soil samples in this SDG had a low biased recovery. Sample PBOW-04-SO-AA3-SB-18-A(3-5) was qualified as detailed in the following table:

Analyte	% Recovery MS/MSD	Qualifier
Acetone	11% in MS	UJ the ND in parent sample

4. The VOC Initial Calibration Verification (ICV) associated with all eight of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all ten

soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-22A(8-10) PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-20A(3-5) PBOW-04-SO-AA2-SB-18A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18A(8-10)	J/UJ

5. The VOC Continuing Calibration Verifications (CCVs) associated with all eight soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for several compounds. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eleven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+57.83%	PBOW-04-SO-AA2-SB-20A(3-5)	Already J/UJ due to ICV
Methyl acetate	+42.62	PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-22A(8-10) PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18A(8-10)	Already J/UJ due to ICV
Trichlorofluoromethane	+20.75	PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-22A(8-10) PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18A(8-10)	None All ND
Bromoform	+20.89	PBOW-04-SO-AA2-SB-22A(0.5-1.5) PBOW-04-SO-AA2-SB-22A(3-5) PBOW-04-SO-AA2-SB-22A(8-10) PBOW-04-SO-AA2-SB-20A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(0.5-1.5) PBOW-04-SO-AA2-SB-18A(3-5) PBOW-04-SO-AA2-SB-18A(8-10)	None All ND

6. One of the VOC samples in this SDG had a low biased internal standard failure. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the sample as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA2-SB-22A(8-10)	J/UJ analytes associated with IS 3

7. The SVOC LCS/MS/MSD associated with all eight soil samples in this SDG had eight low biased recoveries that resulted in qualification of all eight soil samples as detailed in the following table:

Analyte	LCS % R	MS/MSD % R	Qualifier
Atrazine	0% (not spiked)	0% / 0% (not spiked)	J/R
Acetophenone	0% (not spiked)	0% / 0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	0% / 0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	0% / 0% (not spiked)	J/R
Caprolactam	0% (not spiked)	0% / 0% (not spiked)	J/R
3,3-Dichlorobenzidine	37%	0% / 0%	J/R in MS/MSD parent, J/UJ in all other samples
4-Chloroaniline	15%	35% / 19%	J/R
Hexachlorocyclopentadiene	40%	33% / 30%	J/UJ

8. The metals MS/MSD analysis performed on sample PBOW-04-SD-AA3-SB-18-A (3-5) associated with this SDG recovered marginally low for one compound and marginally high for four compounds. The outliers and resulting qualification is detailed below in the table for all eight associated soils in the SDG.

Analyte	% Recovery	Qualifier
Antimony	54% in MS, 53% in MSD	J/UJ
Calcium	191% in MS, 166% in MSD	J detects only
Magnesium	147% in MS, 148% in MSD	J detects only
Manganese	591% in MS, 100% in MSD	J detects only
Potassium	141% in MS, 134% in MSD	J detects only

Specific Findings: SDG E&E 0411103

1. The VOC LCS associated with the trip blank had one low biased recovery. PBOW-04-TB-110504-01 was qualified as detailed in the following table:

Analyte	% Recovery	Qualifier
Acetone	23% in LCS	J detect in TB

2. The VOC LCS' associated with the nine soil samples in this SDG had high biased recoveries for methyl acetate. None of the associated samples had detects for the compound, thus, no qualification was necessary.

3. The VOC Initial Calibration Verification (ICV) associated with all nine of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all nine

soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA3-SB-16A(0.5-1.5) PBOW-04-SO-AA3-SB-16A(3-5) PBOW-04-SO-AA3-SB-16A(8-10) PBOW-04-SO-AA3-SB-24A(0.5-1.5) PBOW-04-SO-AA3-SB-24A(3-5) PBOW-04-SO-AA3-SB-24A(8-10)RA PBOW-04-SO-AA3-SB-25A(0.5-1.5) PBOW-04-SO-AA3-SB-25A(3-5) PBOW-04-SO-AA3-SB-25A(8-10)	J/UJ

4. The VOC Continuing Calibration Verifications (CCVs) associated with all nine soil samples and the trip blank in this SDG failed the percent drift criteria marginally with a positive or high bias for several compounds. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eleven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Acetone	+27.34%	PBOW-04-TB-110504-01	Already J due to LCS
Dichlorofluoromethane	+41.94	PBOW-04-TB-110504-01	None ND in TB
Methyl acetate	+57.83%	PBOW-04-SO-AA3-SB-16A(0.5-1.5) PBOW-04-SO-AA3-SB-16A(3-5) PBOW-04-SO-AA3-SB-16A(8-10) PBOW-04-SO-AA3-SB-24A(0.5-1.5) PBOW-04-SO-AA3-SB-24A(3-5) PBOW-04-SO-AA3-SB-25A(0.5-1.5) PBOW-04-SO-AA3-SB-25A(3-5) PBOW-04-SO-AA3-SB-25A(8-10)	Already J/UJ due to ICV
Methyl acetate	+26.60%	PBOW-04-SO-AA3-SB-24A(8-10)RA	Already J/UJ due to ICV
Dibromochloromethane	+20.05	PBOW-04-SO-AA3-SB-24A(8-10)RA	None All ND
Bromoform	+27.26	PBOW-04-SO-AA3-SB-24A(8-10)RA	None All ND

5. Two of the VOC samples in this SDG had a low biased internal standard failure. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the sample as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA3-SB-24A(8-10)RA PBOW-04-SO-AA3-SB-16A(8-10)	J/UJ analytes associated with IS 3

6. The SVOC LCS associated with all nine soil samples in this SDG had nine low biased recoveries that resulted in qualification of all nine soil samples as detailed in the following table:

Analyte	LCS % R	Qualifier
Atrazine	0% (not spiked)	J/R
Acetophenone	0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	J/R
Caprolactam	0% (not spiked)	J/R
2-Nitrophenol	31%	J/UJ
4-Nitroanilne	58%	J/UJ
4-Chloroaniline	36%	J/UJ
Hexachlorocyclopentadiene	47%	J/UJ

7. Four of the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#6 Perylene-d12	High	PBOW-04-SO-AA3-SB-24A(8-10) PBOW-04-SO-AA3-SB-25A(8-10) PBOW-04-SO-AA3-SB-16A(0.5-1.5) PBOW-04-SO-AA3-SB-16A(8-10)	J detects only associated with IS 6. All ND

Specific Findings: SDG E&E 0411142

1. The VOC LCS' associated with the three soil samples in this SDG had high biased recoveries for methyl acetate. None of the associated samples had detects for the compound, thus, no qualification was necessary.

2. The VOC Initial Calibration Verification (ICV) associated with all three of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all three soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA2-SB-26A(0.5-1.5) PBOW-04-SO-AA2-SB-26A(3-5)RA PBOW-04-SO-AA2-SB-26A(8-10)	J/UJ

3. The VOC Continuing Calibration Verifications (CCVs) associated with all three soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for several

compounds. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eleven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+57.83%	PBOW-04-SO-AA2-SB-26A(0.5-1.5) PBOW-04-SO-AA2-SB-26A(8-10)	Already J/UJ due to ICV
Methyl acetate	+26.60%	PBOW-04-SO-AA2-SB-26A(3-5)RA	Already J/UJ due to ICV
Dibromochloromethane	+20.05	PBOW-04-SO-AA2-SB-26A(3-5)RA	None All ND
Bromoform	+27.26	PBOW-04-SO-AA2-SB-26A(3-5)RA	None All ND

4. The SVOC LCS associated with all three soil samples in this SDG had ten low biased recoveries that resulted in qualification of all three soil samples as detailed in the following table:

Analyte	LCS % R	Qualifier
Atrazine	0% (not spiked)	"R" the ND results in all three samples
Acetophenone	0% (not spiked)	"R" the ND results in all three samples
Benzaldehyde	0% (not spiked)	"R" the ND results in all three samples
1,1-Biphenyl	0% (not spiked)	"R" the ND results in all three samples
Caprolactam	0% (not spiked)	"R" the ND results in all three samples
3,3-Dichlorobenzidine	0%	"R" the ND results in all three samples
3-Nitroaniline	41%	"UJ" the ND results in all three samples
4-Nitroanilne	53%	"UJ" the ND results in all three samples
4-Chloroaniline	19%	"R" the ND results in all three samples
Hexachlorocyclopentadiene	33%	"UJ" the ND results in all three samples

5. One dilution analysis for the SVOC samples in this SDG had high biased internal standard failures. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects only) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#6 Perylene-d12	High	PBOW-04-SO-AA2-SB-26A(0.5-1.5) DL	None – DL analysis not used for any analytes associated with IS 6

6. The nitroaromatics ICV associated with all three soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all three soil samples were qualified as estimated "UJ".

Specific Findings: SDG E&E 0411143

1. The VOC LCS' associated with the two of the eight soil samples in this SDG had high biased recoveries for methyl acetate. PBOW-04-SO-AA3-SB-26-A (0.5-1.5) and PBOW-04-SO-AA3-SB-27-A (0.5-1.5) were associated with the LCS and did not have detects for the compound, thus, no qualification was necessary.

2. The VOC Initial Calibration Verification (ICV) associated with all eight of the samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all eight soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA3-SB-27A(3-5) PBOW-04-SO-AA3-SB-28A(0.5-1.5) PBOW-04-SO-AA3-SB-28A(3-5) PBOW-04-SO-AA3-SB-29A(0.5-1.5)	J for the detects
Methyl acetate	-37.56%	PBOW-04-SO-AA3-SB-26A(0.5-1.5) PBOW-04-SO-AA3-SB-26A(3-5) PBOW-04-SO-AA3-SB-27A(0.5-1.5) PBOW-04-SO-AA3-SB-29A(3-5)	UJ for the non-detects

3. The VOC Continuing Calibration Verifications (CCVs) associated with all eight soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for several compounds. The finding indicated a potential high bias for the analyte, thus the results were qualified as estimated ("J" for detects only) for the results in all eight associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+57.83%	PBOW-04-SO-AA3-SB-26A(0.5-1.5) PBOW-04-SO-AA3-SB-27A(0.5-1.5)	Already UJ due to ICV
Methyl acetate	+26.60%	PBOW-04-SO-AA3-SB-27A(3-5) PBOW-04-SO-AA3-SB-28A(0.5-1.5) PBOW-04-SO-AA3-SB-28A(3-5) PBOW-04-SO-AA3-SB-29A(0.5-1.5) PBOW-04-SO-AA3-SB-26A(3-5) PBOW-04-SO-AA3-SB-29A(3-5)	Already J/UJ due to ICV
Dibromochloromethane	+20.05	PBOW-04-SO-AA3-SB-27A(3-5) PBOW-04-SO-AA3-SB-28A(0.5-1.5) PBOW-04-SO-AA3-SB-28A(3-5) PBOW-04-SO-AA3-SB-29A(0.5-1.5) PBOW-04-SO-AA3-SB-26A(3-5) PBOW-04-SO-AA3-SB-29A(3-5)	None All ND
Bromoform	+27.26	PBOW-04-SO-AA3-SB-27A(3-5) PBOW-04-SO-AA3-SB-28A(0.5-1.5) PBOW-04-SO-AA3-SB-28A(3-5) PBOW-04-SO-AA3-SB-29A(0.5-1.5) PBOW-04-SO-AA3-SB-26A(3-5) PBOW-04-SO-AA3-SB-29A(3-5)	None All ND

4. The VOC MS/MSD performed on sample PBOW-04-SO-AA3-SB-27-A(3-5) associated with the soil samples in this SDG had a low biased recovery. Sample PBOW-04-SO-AA3-SB-27-A(3-5) was qualified as detailed in the following table:

Analyte	% Recovery MS/MSD	Qualifier
Acetone	60% / 46%	UJ the ND in parent sample

5. The SVOC LCS associated with all three of the eight soil samples in this SDG had eight low biased recoveries that resulted in qualification of the three soil samples as detailed in the following table:

Analyte	LCS % R	Qualifier	Affected Samples
Atrazine	0% (not spiked)	J/R	PBOW-04-SO-AA3-SB-26A(0.5-1.5) PBOW-04-SO-AA3-SB-26A(3-5) PBOW-04-SO-AA3-SB-27A(0.5-1.5)
Acetophenone	0% (not spiked)	J/R	
Benzaldehyde	0% (not spiked)	J/R	
1,1-Biphenyl	0% (not spiked)	J/R	
Caprolactam	0% (not spiked)	J/R	
3,3-Dichlorobenzidine	37%	J/UJ	
4-Chloroaniline	15%	J/R	
Hexachlorocyclopentadiene	40%	J/UJ	

6. The SVOC LCS/MS/MSD associated with five of the eight soil samples in this SDG had eleven low biased recoveries that resulted in qualification of the five soil samples as detailed in the table below. Affected samples: PBOW-04-SO-AA3-SB-27A(3-5), PBOW-04-SO-AA3-SB-28A(0.5-1.5), PBOW-04-SO-AA3-SB-28A(3-5), PBOW-04-SO-AA3-SB-29A(0.5-1.5), PBOW-04-SO-AA3-SB-29A(3-5).

Analyte	LCS % R	MS/MSD % R	Qualifier
Atrazine	0% (not spiked)	0% / 0% (not spiked)	J/R
Acetophenone	0% (not spiked)	0% / 0% (not spiked)	J/R
Benzaldehyde	0% (not spiked)	0% / 0% (not spiked)	J/R
1,1-Biphenyl	0% (not spiked)	0% / 0% (not spiked)	J/R
Caprolactam	0% (not spiked)	0% / 0% (not spiked)	J/R
3,3-Dichlorobenzidine	0%	0% / 0%	J/R
4-Chloroaniline	26%	29% / 23%	J/R
Hexachlorocyclopentadiene	56%		J/UJ
2,4-Dimethylphenol	47%	36% / 42%	J/UJ
3-Nitroaniline	43%	42% in MSD	J/UJ
4-Nitroaniline	34%	39% / 34%	J/UJ

7. The nitroaromatics ICV associated with all eight soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all eight soil samples were qualified as estimated "UJ".

8. The metals MS/MSD analysis performed on sample PBOW-04-SO-AA3-SB-27-A (3-5) associated with this SDG recovered marginally low for one compound and marginally high for three compounds. The outliers and resulting qualification is detailed below in the table for all eight associated soils in the SDG.

Analyte	% Recovery	Qualifier
Antimony	64% in MS, 65% in MSD	J/UJ
Calcium	159% in MS, 304% in MSD	J detects only
Magnesium	195% in MS, 129% in MSD	J detects only
Potassium	169% in MS, 137% in MSD	J detects only

Specific Findings: SDG E&E 0411164

1. The VOC Initial Calibration Verification (ICV) associated with all fifteen soil samples in this SDG failed the criteria (80-120% R or 20%D) low for methyl acetate (37.56%D). The finding indicates a potential low bias for methyl acetate, thus the results for methyl acetate in all fifteen soil samples were qualified estimated ("J" for detects and "UJ" for non-detects).

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	-37.56%	PBOW-04-SO-AA3-SB-17A(0.5-1.5) PBOW-04-SO-AA3-SB-17D(0.5-1.5) PBOW-04-SO-AA3-SB-17A(3-5) PBOW-04-SO-AA3-SB-19A(0.5-1.5) PBOW-04-SO-AA3-SB-19D(3-5) PBOW-04-SO-AA3-SB-19A(8-10) PBOW-04-SO-AA3-SB-21A(0.5-1.5) PBOW-04-SO-AA3-SB-21A(3-5) PBOW-04-SO-AA3-SB-21A(8-10) PBOW-04-SO-AA3-SB-21D(8-10) PBOW-04-SO-AA3-SB-23A(0.5-1.5) PBOW-04-SO-AA3-SB-23A(3-5) PBOW-04-SO-AA3-SB-23D(3-5) PBOW-04-SO-AA3-SB-23A(8-10)RA	UJ for the non-detects
Methyl acetate	-37.56%	PBOW-04-SO-AA3-SB-19A(3-5)	J for the detect

2. The VOC Continuing Calibration Verifications (CCVs) associated with seven of the soil samples in this SDG failed the percent drift criteria marginally with a positive or high bias for three compounds. The finding indicated a potential high bias for the analytes, thus the results were qualified as estimated ("J" for detects only) for the results in all seven associated soil samples.

Analyte	Bias/% D	Affected Samples	Qualifier
Methyl acetate	+26.60%	PBOW-04-SO-AA3-SB-17A(0.5-1.5) PBOW-04-SO-AA3-SB-17D(0.5-1.5) PBOW-04-SO-AA3-SB-17A(3-5) PBOW-04-SO-AA3-SB-19A(0.5-1.5) PBOW-04-SO-AA3-SB-19D(3-5) PBOW-04-SO-AA3-SB-19A(8-10) PBOW-04-SO-AA3-SB-19A(3-5)	Already J/UJ due to ICV
Dibromochloromethane Bromoform	+20.05 +27.26	PBOW-04-SO-AA3-SB-17A(0.5-1.5) PBOW-04-SO-AA3-SB-17D(0.5-1.5) PBOW-04-SO-AA3-SB-17A(3-5) PBOW-04-SO-AA3-SB-19A(0.5-1.5) PBOW-04-SO-AA3-SB-19D(3-5) PBOW-04-SO-AA3-SB-19A(8-10) PBOW-04-SO-AA3-SB-19A(3-5)	None All ND

3. Four of the VOC samples in this SDG had a low biased internal standard failure. The appropriate compounds associated with the internal standard per the EPA NFG were qualified as estimated ("J" for detects and "UJ" for non-detects) in the samples as detailed in the table below:

Internal Standard	Bias	Affected Samples	Qualifier
IS#3 1,4-Dichlorobenzene	Low	PBOW-04-SO-AA3-SB-19A(8-10) PBOW-04-SO-AA3-SB-23A(3-5) PBOW-04-SO-AA3-SB-23D(3-5) PBOW-04-SO-AA3-SB-23A(8-10)RA	J/UJ analytes associated with IS 3

4. The SVOC LCS associated with all fifteen soil samples in this SDG had eleven low biased recoveries that resulted in qualification of the fifteen soil samples as detailed in the table below.

Analyte	LCS % R	Qualifier
Atrazine	0% (not spiked)	"R" the ND results in all samples
Acetophenone	0% (not spiked)	"R" the ND results in all samples
Benzaldehyde	0% (not spiked)	"R" the ND results in all samples
1,1-Biphenyl	0% (not spiked)	"R" the ND results in all samples
Caprolactam	0% (not spiked)	"R" the ND results in all samples
3,3-Dichlorobenzidine	0%	"R" the ND results in all samples
4-Chloroaniline	26%	"R" the ND results in all samples
Hexachlorocyclopentadiene	56%	"UJ" the ND results in all samples
2,4-Dimethylphenol	47%	"UJ" the ND results in all samples
3-Nitroaniline	43%	"UJ" the ND results in all samples
4-Nitroaniline	34%	"UJ" the ND results in all samples

5. The nitroaromatics ICV associated with all fifteen soil samples in this SDG had a low biased percent difference (17.4%). The non-detect results for tetryl in all fifteen soil samples were qualified as estimated "UJ".

6. The metals MS/MSD analysis performed on sample PBOW-04-SO-AA3-SB-17-A (0.5-1.5) associated with this SDG recovered marginally low for two compounds and high for several compounds. The outliers and resulting qualification is detailed below in the table for all fifteen associated soils in the SDG.

Analyte	% Recovery	Qualifier
Antimony	56% in MS, 59% in MSD	J/UJ
Barium	170% in MS, 165% in MSD	J detects only
Manganese	46% in MS, 866% in MSD	J/UJ
Nickel	131% in MS	J detects only
Potassium	176% in MS, 159% in MSD	J detects only
Vanadium	133% in MS	J detects only
Zinc	171% in MS, 163% in MSD	J detects only

4.3 DATA REPRESENTATIVENESS

4.3.1 Sample Custody/Handling Documentation Review

The project samples were received at the laboratory adequately preserved, chilled within the required range of 4 ± 2 degrees Celsius, in good condition, and with required custody documentation in order without exception.

4.3.2 Sample Holding Time Review

QC data indicated requirements for holding times were met for each sample analysis with the exception of a few re-analyses for VOC and SVOC samples. The re-analyses to confirm matrix affects for internal standard outliers that exceeded holding times were not used. The original analyses were used and qualified as appropriate for the internal standard outliers.

4.3.3 Blank Sample Results Review

QC data indicated requirements for blank sample results were met for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Finding:

1. The VOC trip blank associated with the seven soil samples in SDG E&E 0410348 contained a detect of Acetone at 11.1 ug/L. All seven of the associated soil samples contained detects for acetone. However, only two samples, PBOW-04-SD-AA2-SWSD-03-A and PBOW-04-SD-AA3-SWSD-01-A had detects less than ten times the trip blank level. These two samples were qualified as "U" undetected for Acetone.

2. The metals method blank and calibration blanks associated with SDG E&E 0410348 had trace level (less than the reporting limit, but greater than the MDL) detects of Iron and Chromium. The blank detections did not affect the sample results due to the magnitude of the detects of the compounds in the samples (greater than five times the blank level).

3. The VOC method blank associated with the twelve soil samples in SDG E&E 0410359 contained a trace level detect of Methylene chloride at 1.76 ug/Kg. All twelve of the associated soil samples were non-detect for Methylene chloride. No qualification was necessary.

4. The VOC trip blank associated with the twelve soil samples in SDG E&E 0410359 contained a detect of Acetone at 11.3 ug/L. Seven of the twelve associated soil samples also contained low level detects of Acetone above the reporting limit and <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination. The affected samples that required qualification are PBOW-04-SO-AA2-SB-16-A (3-5), PBOW-04-SO-AA2-SB-16-D (3-5), PBOW-04-SO-AA2-SB-16-A (8-10), PBOW-04-SO-AA2-SB-18-A (3-5), PBOW-04-SO-AA2-SB-18-D (3-5), PBOW-04-SO-AA2-SB-18-A (8-10), and PBOW-04-SO-AA2-SB-17-A (3-5).

5. The metals method blank and calibration blanks associated with SDG E&E 0410359 had trace level (less than the reporting limit, but greater than the MDL) detects of Iron and

Chromium. The blank detections did not affect the sample results due to the magnitude of the detects of the compounds in the samples (greater than five times the blank level).

6. The VOC method blank associated with the eleven soil samples in SDG E&E 0410374 contained a trace level detect of Methylene chloride at 1.76 ug/Kg. All eleven of the associated soil samples were non-detect for Methylene chloride. No qualification was necessary.

7. The VOC trip blank associated with the eleven soil samples in SDG E&E 0410374 contained detects of Acetone at 11.7 ug/L and Toluene at 0.42 ug/L. Seven of the eleven associated soil samples also contained low level detects of Acetone above the reporting limit and <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination. One of the eleven associated soil samples also contained a low level detect of Toluene above the reporting limit and <10 times the blank level and was qualified as undetected "U" to indicate the presence of the blank contamination.

   The affected samples that required qualification for Acetone are:
   PBOW-04-SO-AA2-SB-20-A (3-5)
   PBOW-04-SO-AA2-SB-19-A (3-5)
   PBOW-04-SO-AA2-SB-21-A (0.5-1.5)
   PBOW-04-SO-AA2-SB-21-A (3-5)
   PBOW-04-SO-AA2-SB-22-A (0.5-1.5)
   PBOW-04-SO-AA2-SB-22-A (3-5)
   PBOW-04-SO-AA2-SB-27-A (3-5)

   The affected sample that required qualification for Toluene is:
   PBOW-04-SO-AA2-SB-20-A (0.5-1.5)

8. The SVOC method blank associated with the eleven soil samples in SDG E&E 0410374 contained a detect of Bis(2-ethylhexyl)phthalate 589 ug/Kg. One of the eleven associated soil samples [PBOW-04-SO-AA2-SB-19-A (3-5)] also contained a low level detects of Bis(2-ethylhexyl)phthalate above the reporting limit but less than the level reported in the method blank, and was qualified as undetected "U" to indicate the presence of the blank contamination.

9. The metals method blank and calibration blanks associated with SDG E&E 0410374 had detects of Barium, Beryllium, Cadmium, Chromium, Cobalt, Sodium, and Zinc. The eleven associated soil samples had detects for all the compounds greater than five times the blank detections, and no qualification was necessary.

10. The VOC trip blank associated with the ten soil samples in SDG E&E 0411017 contained detects of Acetone at 10.4 ug/L and Toluene at 0.21 ug/L. All ten of the associated soil samples also contained low level detects of Acetone above the reporting limit and <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination. Two of the ten associated soil samples also contained low level detects of Toluene above the reporting limit and <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination.

The affected samples that required qualification for Acetone are:
PBOW-04-SO-AA2-SB-23-A (0.5-1.5)
PBOW-04-SO-AA2-SB-23-A (3-5)
PBOW-04-SO-AA2-SB-23-A (8-10)
PBOW-04-SO-AA2-SB-28-A (0.5-1.5)
PBOW-04-SO-AA2-SB-28-A (3-5)
PBOW-04-SO-AA2-SB-28-A (8-10)
PBOW-04-SO-AA2-SB-24-A (0.5-1.5)
PBOW-04-SO-AA2-SB-24-A (3-5)
PBOW-04-SO-AA2-SB-25-A (0.5-1.5)
PBOW-04-SO-AA2-SB-25-A (3-5)

The affected samples that required qualification for Toluene are:
PBOW-04-SO-AA2-SB-23-A (0.5-1.5)
PBOW-04-SO-AA2-SB-25-A (0.5-1.5)

11. The SVOC method blank associated with the ten soil samples in SDG E&E 0411017 contained a detect of Butyl benzyl phthalate at 305 ug/Kg. None of the ten associated soil samples contained detects of Butyl benzyl phthalate, and no action was necessary based on this incidence blank contamination.

12. The metals method blank and calibration blanks associated with SDG E&E 0411017 had low level detects of Iron, Lead, and Zinc. The ten associated soil samples had detects for all the compounds greater than five times the blank detections, and no qualification was necessary.

13. The VOC trip blank associated with the eight soil samples in SDG E&E 0411088 contained detects of Acetone at 14.6 ug/L and Toluene at 0.18 ug/L. Seven of the eight associated soil samples also contained low level detects of Acetone <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination. None of the eight associated soil samples contained detects of Toluene, and no action was necessary for the toluene blank contamination.

    The affected samples that required qualification for Acetone are:
    PBOW-04-SO-AA3-SB-22-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-22-A (3-5)
    PBOW-04-SO-AA3-SB-22-A (8-10)
    PBOW-04-SO-AA3-SB-20-A (3-5)
    PBOW-04-SO-AA3-SB-18-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-18-A (3-5)
    PBOW-04-SO-AA3-SB-18-A (8-10)

14. The metals method blank and calibration blanks associated with SDG E&E 0411088 had detects of Barium, Beryllium, Cadmium, Chromium, Cobalt, Sodium, and Zinc. Barium, Chromium, Cobalt, Sodium, and Zinc were detected greater than five times the blank level in all eight associated samples, thus, no qualification was necessary for these compounds. All eight samples listed below were qualified as undetected "U" for Beryllium and Cadmium:

The affected samples that required qualification for Beryllium and Cadmium are:
PBOW-04-SO-AA3-SB-22-A (0.5-1.5)
PBOW-04-SO-AA3-SB-22-A (3-5)
PBOW-04-SO-AA3-SB-22-A (8-10)
PBOW-04-SO-AA3-SB-20-A (0.5-1.5)
PBOW-04-SO-AA3-SB-20-A (3-5)
PBOW-04-SO-AA3-SB-18-A (0.5-1.5)
PBOW-04-SO-AA3-SB-18-A (3-5)
PBOW-04-SO-AA3-SB-18-A (8-10)

15. The VOC trip blank associated with the nine soil samples in SDG E&E 0411103 contained a detect of Acetone at 13.6 ug/L . Seven of the nine associated soil samples also contained low level detects of Acetone <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination.

    The affected samples that required qualification for Acetone are:
    PBOW-04-SO-AA3-SB-16-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-16-A (3-5)
    PBOW-04-SO-AA3-SB-16-A (8-10)
    PBOW-04-SO-AA3-SB-24-A (8-10)
    PBOW-04-SO-AA3-SB-25-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-25-A (3-5)
    PBOW-04-SO-AA3-SB-25-A (8-10)

16. The SVOC method blank associated with the nine soil samples in SDG E&E 0411103 contained a detect of Bis(2-ethylhexyl)phthalate 589 ug/Kg. Four of the nine associated soil samples also contained a low level detects of Bis(2-ethylhexyl)phthalate above the reporting limit but less than the level reported in the method blank, and were qualified as undetected "U" to indicate the presence of the blank contamination.

    The affected samples that required qualification for Bis(2-ethylhexyl)phthalate are:
    PBOW-04-SO-AA3-SB-16-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-16-A (3-5)
    PBOW-04-SO-AA3-SB-24-A (3-5)
    PBOW-04-SO-AA3-SB-24-A (8-10)

17. The metals method blank and calibration blanks associated with SDG E&E 0411103 had low level detects of Iron, Lead, and Zinc. The nine associated soil samples had detects for all the compounds greater than five times the blank detections, and no qualifications were necessary.

18. The VOC trip blank associated with the three soil samples in SDG E&E 0411142 contained a detect of Acetone at 14.7 ug/L . Two of the three associated soil samples also contained low level detects of Acetone <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination.

    The affected samples that required qualification for Acetone are:
    PBOW-04-SO-AA2-SB-26-A (0.5-1.5)
    PBOW-04-SO-AA2-SB-26-A (3-5)

19. The SVOC method blank associated with the three soil samples in SDG E&E 0411142 contained a detect of Butyl benzyl phthalate at 305 ug/Kg. None of the three associated soil samples contained detects of Butyl benzyl phthalate, and no action was necessary based on this incidence blank contamination.

20. The VOC trip blank associated with the eight soil samples in SDG E&E 0411143 contained a detect of Acetone at 14.7 ug/L . All eight of the associated soil samples also contained low level detects of Acetone <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination.

    The affected samples that required qualification for Acetone are:
    PBOW-04-SO-AA3-SB-26-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-26-A (3-5)
    PBOW-04-SO-AA3-SB-27-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-27-A (3-5)
    PBOW-04-SO-AA3-SB-28-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-28-A (3-5)
    PBOW-04-SO-AA3-SB-29-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-29-A (3-5)

21. The VOC trip blank associated with the fifteen soil samples in SDG E&E 0411164 contained a detect of Acetone at 12.9 ug/L. All fifteen of the associated soil samples also contained low level detects of Acetone <10 times the blank level and were qualified as undetected "U" to indicate the presence of the blank contamination.

    The affected samples that required qualification for Acetone are:
    PBOW-04-SO-AA3-SB-17-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-17-D (0.5-1.5)
    PBOW-04-SO-AA3-SB-17-A (3-5)
    PBOW-04-SO-AA3-SB-19-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-19-A (3-5)
    PBOW-04-SO-AA3-SB-19-D (3-5)
    PBOW-04-SO-AA3-SB-19-A (8-10)
    PBOW-04-SO-AA3-SB-21-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-21-A (3-5)
    PBOW-04-SO-AA3-SB-21-A (8-10)
    PBOW-04-SO-AA3-SB-21-D (8-10)
    PBOW-04-SO-AA3-SB-23-A (0.5-1.5)
    PBOW-04-SO-AA3-SB-23-A (3-5)
    PBOW-04-SO-AA3-SB-23-D (3-5)
    PBOW-04-SO-AA3-SB-23-A (8-10)

22. The metals method blank and calibration blanks associated with SDG E&E 0411164 had detects of Aluminum, Magnesium, Potassium, Sodium, and Iron. All five compounds were detected greater than five times the blank level in all fifteen associated samples, thus, no qualification was necessary for these compounds.

4.4 DATA SENSITIVITY

A few of the samples included in this evaluation had high analyte concentrations and/or interferences forcing sample dilutions to be performed for the SVOC and PCB analyses. For the SVOC dilutions that were required, the undiluted analyses were also reported. In these cases the data were carefully evaluated, and only the analytes that exceeded the calibrations were used from the dilutions maintaining the normal sensitivity for the compounds that did not require dilutions. There were no adverse impacts to sensitivity for the SVOC analyses. The PCB analyses are performed by gas chromatograph (GC), which provides greater sensitivity than the SVOC analyses performed gas chromatography/mass spectroscopy (GC/MS). In the cases where elevated levels of target compounds are present for GC analyses, it is not typically possible to analyze the samples undiluted without damaging the system. The dilutions performed for the PCB analyses were all due to the presence of elevated levels of PCB target analytes with the exception of one sample that was diluted five fold due to the presence of non-target analyte matrix interference.

Only one PCB soil sample is impacted by an increased sensitivity level for non-detect sample data. The laboratory reported target analytes to the Method Detection Level (MDL) to achieve maximum sensitivity and to meet as many of the Region IX preliminary remediation goals and data quality objectives detailed in the project QAPP as possible. Analytes detected above the MDL but below the Method Reporting Limit (MRL) are "J" qualified to indicate the result is estimated and does have less certainty than a result greater than the MRL.

4.5 DATA COMPLETENESS

Data completeness was found to be 100% for all VOCs, nitroaromatics, PCBs, and metals analytes. A few SVOC analytes were rejected due to LCS and MS/MSD low biased recoveries in most or all samples. The table following summarizes the SVOC analytes rejected and the overall completeness of those analytes for the soil and sediment matrices.

Soil and Sediment SVOC Analytes < 100% completeness

Analyte	Completeness
4-Nitroaniline	92%
3-Nitroaniline	77%
4-Chloroaniline	42%
3,3-Dichlorobenzidine	31%
1,1'-Biphenyl	0%
Atrazine	0%
Acetophenone	0%
Benzaldehyde	0%
Caprolactam	0%

Data completeness was found to be acceptable (>90%) for all but eight of the SVOC compounds in the soils and sediments. The five compounds with 0% completeness were mistakenly not spiked in the LCS/MS/MSD samples at the laboratory. The compounds were included in the instrument calibrations, but the non-detect results were rejected in all samples due to the lack of QC spike data. The other three compounds with less than 90% completeness are SVOC compounds that are routinely difficult to recover. None of the eight compounds failing the project completeness goals were detected in any of the samples, nor are the compounds expected to be contaminants of concern at the site.

Overall the data were found to be complete and acceptable for the intended data usages as qualified. The few VOC rejected data points must be considered when evaluating the data for risk or remedial type decisions.

ATTACHMENT 1

SAMPLE INFORMATION TABLES

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
10/27/04	8:45	AA2-SWSD-01	PBOW-04-SD-AA2-SWSD-01	0410348-01A	N1	0410348-ecen	SW8260B
10/27/04	8:45	AA2-SWSD-01	PBOW-04-SD-AA2-SWSD-01	0410348-01B	N1	0410348-ecen	D2216
10/27/04	8:45	AA2-SWSD-01	PBOW-04-SD-AA2-SWSD-01	0410348-01C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-A	0410348-02A	N1	0410348-ecen	SW8260B
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-A	0410348-02B	N1	0410348-ecen	D2216
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-A	0410348-02C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-D	0410348-03A	FD1	0410348-ecen	SW8260B
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-D	0410348-03B	FD1	0410348-ecen	D2216
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-D	0410348-03C	FD1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8330
10/27/04	10:40	AA2-SWSD-02	PBOW-04-SD-AA2-SWSD-02-D	0410348-03CRA	FD1	0410348-ecen	SW8270C
10/27/04	11:56	AA2-SWSD-03	PBOW-04-SD-AA2-SWSD-03-A	0410348-04A	N1	0410348-ecen	SW8260B
10/27/04	11:56	AA2-SWSD-03	PBOW-04-SD-AA2-SWSD-03-A	0410348-04B	N1	0410348-ecen	D2216
10/27/04	11:56	AA2-SWSD-03	PBOW-04-SD-AA2-SWSD-03-A	0410348-04C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	14:25	AA3-SWSD-01	PBOW-04-SD-AA3-SWSD-01-A	0410348-05A	N1	0410348-ecen	SW8260B
10/27/04	14:25	AA3-SWSD-01	PBOW-04-SD-AA3-SWSD-01-A	0410348-05B	N1	0410348-ecen	D2216
10/27/04	14:25	AA3-SWSD-01	PBOW-04-SD-AA3-SWSD-01-A	0410348-05C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	15:30	AA3-SWSD-02	PBOW-04-SD-AA3-SWSD-02-A	0410348-06A	N1	0410348-ecen	SW8260B
10/27/04	15:30	AA3-SWSD-02	PBOW-04-SD-AA3-SWSD-02-A	0410348-06B	N1	0410348-ecen	D2216
10/27/04	15:30	AA3-SWSD-02	PBOW-04-SD-AA3-SWSD-02-A	0410348-06C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	16:05	AA3-SWSD-03	PBOW-04-SD-AA3-SWSD-03-A	0410348-07A	N1	0410348-ecen	SW8260B
10/27/04	16:05	AA3-SWSD-03	PBOW-04-SD-AA3-SWSD-03-A	0410348-07B	N1	0410348-ecen	D2216
10/27/04	16:05	AA3-SWSD-03	PBOW-04-SD-AA3-SWSD-03-A	0410348-07C	N1	0410348-ecen	SW6010B, SW7471A, SW8082, SW8270C, SW8330
10/27/04	17:05	FIELDQC	PBOW-04-TB-102704-02	0410348-08A	TB1	0410348-ecen	SW8260B
10/28/04	12:42	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5)	0410359-01A	N1	0410359-ecen	SW8260B
10/28/04	12:42	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5)	0410359-01B	N1	0410359-ecen	D2216
10/28/04	12:42	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5)	0410359-01C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	12:42	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5)	0410359-01D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(3-5)	0410359-02A	N1	0410359-ecen	SW8260B
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(3-5)	0410359-02B	N1	0410359-ecen	D2216
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(3-5)	0410359-02C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(3-5)	0410359-02D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	13:09	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(8-10)	0410359-04A	N1	0410359-ecen	SW8260B
10/28/04	13:09	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(8-10)	0410359-04B	N1	0410359-ecen	D2216
10/28/04	13:09	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(8-10)	0410359-04C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	13:09	AA2-SB016	PBOW-04-SO-AA2-SB-16-A-(8-10)	0410359-04D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-D-(3-5)	0410359-03A	FD1	0410359-ecen	SW8260B
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-D-(3-5)	0410359-03B	FD1	0410359-ecen	D2216
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-D-(3-5)	0410359-03C	FD1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	12:50	AA2-SB016	PBOW-04-SO-AA2-SB-16-D-(3-5)	0410359-03D	FD1	0410359-ecen	SW6010B, SW7471A

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
10/28/04	15:34	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5)	0410359-10A	N1	0410359-ecen	SW8260B
10/28/04	15:34	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5)	0410359-10B	N1	0410359-ecen	D2216
10/28/04	15:34	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5)	0410359-10C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	15:34	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5)	0410359-10D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	15:43	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(3-5)	0410359-11A	N1	0410359-ecen	SW8260B
10/28/04	15:43	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(3-5)	0410359-11B	N1	0410359-ecen	D2216
10/28/04	15:43	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(3-5)	0410359-11C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	15:43	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(3-5)	0410359-11D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	15:52	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(8-10)	0410359-12A	N1	0410359-ecen	SW8260B
10/28/04	15:52	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(8-10)	0410359-12B	N1	0410359-ecen	D2216
10/28/04	15:52	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(8-10)	0410359-12C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	15:52	AA2-SB017	PBOW-04-SO-AA2-SB-17-A-(8-10)	0410359-12D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5)	0410359-05A	N1	0410359-ecen	SW8260B
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5)	0410359-05B	N1	0410359-ecen	D2216
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5)	0410359-05C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5)	0410359-05D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(3-5)	0410359-07A	N1	0410359-ecen	SW8260B
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(3-5)	0410359-07B	N1	0410359-ecen	D2216
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(3-5)	0410359-07C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(3-5)	0410359-07D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	14:45	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(8-10)	0410359-09A	N1	0410359-ecen	SW8260B
10/28/04	14:45	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(8-10)	0410359-09B	N1	0410359-ecen	D2216
10/28/04	14:45	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(8-10)	0410359-09C	N1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	14:45	AA2-SB018	PBOW-04-SO-AA2-SB-18-A-(8-10)	0410359-09D	N1	0410359-ecen	SW6010B, SW7471A
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5)	0410359-06A	FD1	0410359-ecen	SW8260B
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5)	0410359-06B	FD1	0410359-ecen	D2216
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5)	0410359-06C	FD1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	14:02	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5)	0410359-06D	FD1	0410359-ecen	SW6010B, SW7471A
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(3-5)	0410359-08A	FD1	0410359-ecen	SW8260B
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(3-5)	0410359-08B	FD1	0410359-ecen	D2216
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(3-5)	0410359-08C	FD1	0410359-ecen	SW8082, SW8270C, SW8330
10/28/04	14:25	AA2-SB018	PBOW-04-SO-AA2-SB-18-D-(3-5)	0410359-08D	FD1	0410359-ecen	SW6010B, SW7471A
10/28/04	17:00	FIELDQC	PBOW-04-TB-102804-02	0410359-13A	TB1	0410359-ecen	SW8260B
10/29/04	11:20	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5)	0410374-04A	N1	0410374-ecen	SW8260B
10/29/04	11:20	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5)	0410374-04B	N1	0410374-ecen	D2216
10/29/04	11:20	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5)	0410374-04C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	11:20	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5)	0410374-04D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	11:35	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(3-5)	0410374-05A	N1	0410374-ecen	SW8260B
10/29/04	11:35	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(3-5)	0410374-05B	N1	0410374-ecen	D2216

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
10/29/04	11:35	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(3-5)	0410374-05C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	11:35	AA2-SB019	PBOW-04-SO-AA2-SB-19-A-(3-5)	0410374-05D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	9:20	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5)	0410374-01A	N1	0410374-ecen	SW8260B
10/29/04	9:20	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5)	0410374-01B	N1	0410374-ecen	D2216
10/29/04	9:20	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5)	0410374-01C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	9:20	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5)	0410374-01D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	9:27	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(3-5)	0410374-02A	N1	0410374-ecen	SW8260B
10/29/04	9:27	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(3-5)	0410374-02B	N1	0410374-ecen	D2216
10/29/04	9:27	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(3-5)	0410374-02C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	9:27	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(3-5)	0410374-02D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	9:35	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(8-10)	0410374-03A	N1	0410374-ecen	SW8260B
10/29/04	9:35	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(8-10)	0410374-03B	N1	0410374-ecen	D2216
10/29/04	9:35	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(8-10)	0410374-03C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	9:35	AA2-SB020	PBOW-04-SO-AA2-SB-20-A-(8-10)	0410374-03D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	10:15	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(0.5-1.5)	0410374-06A	N1	0410374-ecen	SW8260B
10/29/04	10:15	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(0.5-1.5)	0410374-06B	N1	0410374-ecen	D2216
10/29/04	10:15	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(0.5-1.5)	0410374-06C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	10:15	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(0.5-1.5)	0410374-06D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	10:25	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(3-5)	0410374-07A	N1	0410374-ecen	SW8260B
10/29/04	10:25	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(3-5)	0410374-07B	N1	0410374-ecen	D2216
10/29/04	10:25	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(3-5)	0410374-07C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	10:25	AA2-SB021	PBOW-04-SO-AA2-SB-21-A-(3-5)	0410374-07D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	13:20	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5)	0410374-08A	N1	0410374-ecen	SW8260B
10/29/04	13:20	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5)	0410374-08B	N1	0410374-ecen	D2216
10/29/04	13:20	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5)	0410374-08C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	13:20	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5)	0410374-08D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	13:33	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(3-5)	0410374-09A	N1	0410374-ecen	SW8260B
10/29/04	13:33	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(3-5)	0410374-09B	N1	0410374-ecen	D2216
10/29/04	13:33	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(3-5)	0410374-09C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	13:33	AA2-SB022	PBOW-04-SO-AA2-SB-22-A-(3-5)	0410374-09D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	14:36	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5)	0410374-10A	N1	0410374-ecen	SW8260B
10/29/04	14:36	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5)	0410374-10B	N1	0410374-ecen	D2216
10/29/04	14:36	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5)	0410374-10C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	14:36	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5)	0410374-10D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	14:50	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(3-5)	0410374-11A	N1	0410374-ecen	SW8260B
10/29/04	14:50	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(3-5)	0410374-11B	N1	0410374-ecen	D2216
10/29/04	14:50	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(3-5)	0410374-11C	N1	0410374-ecen	SW8082, SW8270C, SW8330
10/29/04	14:50	AA2-SB027	PBOW-04-SO-AA2-SB-27-A-(3-5)	0410374-11D	N1	0410374-ecen	SW6010B, SW7471A
10/29/04	16:00	FIELDQC	PBOW-04-TB-102904-01	0410374-12A	TB1	0410374-ecen	SW8260B

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
11/1/04	13:00	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(0.5-1.5)	0411017-01A	N1	0411017-ecen	SW8260B
11/1/04	13:00	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(0.5-1.5)	0411017-01B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	13:10	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(3-5)	0411017-02A	N1	0411017-ecen	SW8260B
11/1/04	13:10	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(3-5)	0411017-02B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	13:24	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(8-10)	0411017-03A	N1	0411017-ecen	SW8260B
11/1/04	13:24	AA2-SB023	PBOW-04-SO-AA2-SB-23-A(8-10)	0411017-03B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	14:55	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(0.5-1.5)	0411017-07A	N1	0411017-ecen	SW8260B
11/1/04	14:55	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(0.5-1.5)	0411017-07BDL	N1	0411017-ecen	SW8270C
11/1/04	14:55	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(0.5-1.5)	0411017-07B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	15:09	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(3-5)	0411017-08A	N1	0411017-ecen	SW8260B
11/1/04	15:09	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(3-5)	0411017-08BDL	N1	0411017-ecen	SW8270C
11/1/04	15:09	AA2-SB024	PBOW-04-SO-AA2-SB-24-A(3-5)	0411017-08B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	15:50	AA2-SB025	PBOW-04-SO-AA2-SB-25-A(0.5-1.5)	0411017-09A	N1	0411017-ecen	SW8260B
11/1/04	15:50	AA2-SB025	PBOW-04-SO-AA2-SB-25-A(0.5-1.5)	0411017-09BDL	N1	0411017-ecen	SW8270C
11/1/04	15:50	AA2-SB025	PBOW-04-SO-AA2-SB-25-A(0.5-1.5)	0411017-09B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	16:00	AA2-SB025	PBOW-04-SO-AA2-SB-25-A(3-5)	0411017-10A	N1	0411017-ecen	SW8260B
11/1/04	16:00	AA2-SB025	PBOW-04-SO-AA2-SB-25-A(3-5)	0411017-10B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	14:02	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(0.5-1.5)	0411017-04A	N1	0411017-ecen	SW8260B
11/1/04	14:02	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(0.5-1.5)	0411017-04B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	14:16	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(3-5)	0411017-05A	N1	0411017-ecen	SW8260B
11/1/04	14:16	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(3-5)	0411017-05B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	14:27	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(8-10)	0411017-06ARA	N1	0411017-ecen	SW8260B
11/1/04	14:27	AA2-SB028	PBOW-04-SO-AA2-SB-28-A(8-10)	0411017-06B	N1	0411017-ecen	D2216, SW6010B, SW7471A, SW8082, SW8270C, SW8330
11/1/04	16:43	FIELDQC	PBOW-04-TB-110104-01	0411017-11A	TB1	0411017-ecen	SW8260B
11/4/04	14:22	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(0.5-1.5)	0411088-06A	N1	0411088-ecen	SW8260B
11/4/04	14:22	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(0.5-1.5)	0411088-06B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	14:22	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(0.5-1.5)	0411088-06C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	14:32	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(3-5)	0411088-07A	N1	0411088-ecen	SW8260B
11/4/04	14:32	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(3-5)	0411088-07B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	14:32	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(3-5)	0411088-07C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	14:48	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(8-10)	0411088-08A	N1	0411088-ecen	SW8260B
11/4/04	14:48	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(8-10)	0411088-08B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	14:48	AA3-SB018	PBOW-04-SO-AA3-SB-18-A(8-10)	0411088-08C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	13:40	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(0.5-1.5)	0411088-04A	N1	0411088-ecen	SW8260B
11/4/04	13:40	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(0.5-1.5)	0411088-04B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	13:40	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(0.5-1.5)	0411088-04C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	13:49	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(3-5)	0411088-05A	N1	0411088-ecen	SW8260B
11/4/04	13:49	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(3-5)	0411088-05B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	13:49	AA3-SB020	PBOW-04-SO-AA3-SB-20-A(3-5)	0411088-05C	N1	0411088-ecen	SW6010B, SW7471A

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
11/4/04	12:55	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(0.5-1.5)	0411088-01A	N1	0411088-ecen	SW8260B
11/4/04	12:55	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(0.5-1.5)	0411088-01B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	12:55	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(0.5-1.5)	0411088-01C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	13:02	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(3-5)	0411088-02A	N1	0411088-ecen	SW8260B
11/4/04	13:02	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(3-5)	0411088-02B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	13:02	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(3-5)	0411088-02C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	13:10	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(8-10)	0411088-03A	N1	0411088-ecen	SW8260B
11/4/04	13:10	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(8-10)	0411088-03B	N1	0411088-ecen	D2216, SW8082, SW8270C, SW8330
11/4/04	13:10	AA3-SB022	PBOW-04-SO-AA3-SB-22-A(8-10)	0411088-03C	N1	0411088-ecen	SW6010B, SW7471A
11/4/04	15:36	FIELDQC	PBOW-04-TB-110404-01	0411088-09A	TB1	0411088-ecen	SW8260B
11/5/04	8:45	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(0.5-1.5)	0411103-01A	N1	0411103-ecen	SW8260B
11/5/04	8:45	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(0.5-1.5)	0411103-01B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	8:45	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(0.5-1.5)	0411103-01C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	8:54	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(3-5)	0411103-02A	N1	0411103-ecen	SW8260B
11/5/04	8:54	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(3-5)	0411103-02B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	8:54	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(3-5)	0411103-02C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	8:54	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(3-5)	0411103-02CRE	N1	0411103-ecen	SW6010B
11/5/04	9:03	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(8-10)	0411103-03A	N1	0411103-ecen	SW8260B
11/5/04	9:03	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(8-10)	0411103-03B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	9:03	AA3-SB016	PBOW-04-SO-AA3-SB-16-A(8-10)	0411103-03C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	9:35	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(0.5-1.5)	0411103-04A	N1	0411103-ecen	SW8260B
11/5/04	9:35	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(0.5-1.5)	0411103-04B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	9:35	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(0.5-1.5)	0411103-04C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	9:46	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(3-5)	0411103-05A	N1	0411103-ecen	SW8260B
11/5/04	9:46	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(3-5)	0411103-05B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	9:46	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(3-5)	0411103-05C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	9:46	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(3-5)	0411103-05CRE	N1	0411103-ecen	SW6010B
11/5/04	9:55	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(8-10)	0411103-06ARA	N1	0411103-ecen	SW8260B
11/5/04	9:55	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(8-10)	0411103-06B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	9:55	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(8-10)	0411103-06C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	9:55	AA3-SB024	PBOW-04-SO-AA3-SB-24-A(8-10)	0411103-06CRE	N1	0411103-ecen	SW6010B
11/5/04	10:31	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(0.5-1.5)	0411103-07A	N1	0411103-ecen	SW8260B
11/5/04	10:31	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(0.5-1.5)	0411103-07B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	10:31	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(0.5-1.5)	0411103-07C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	10:31	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(0.5-1.5)	0411103-07CRE	N1	0411103-ecen	SW6010B
11/5/04	10:41	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(3-5)	0411103-08A	N1	0411103-ecen	SW8260B
11/5/04	10:41	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(3-5)	0411103-08B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	10:41	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(3-5)	0411103-08C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	10:41	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(3-5)	0411103-08CRE	N1	0411103-ecen	SW6010B

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
11/5/04	10:50	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(8-10)	0411103-09A	N1	0411103-ecen	SW8260B
11/5/04	10:50	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(8-10)	0411103-09B	N1	0411103-ecen	D2216, SW8082, SW8270C, SW8330
11/5/04	10:50	AA3-SB025	PBOW-04-SO-AA3-SB-25-A(8-10)	0411103-09C	N1	0411103-ecen	SW6010B, SW7471A
11/5/04	12:26	FIELDQC	PBOW-04-TB-110504-01	0411103-10A	TB1	0411103-ecen	SW8260B
11/8/04	15:30	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(3-5)	0411142-02ARA	N1	0411142-ecen	SW8260B
11/8/04	15:30	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(3-5)	0411142-02B	N1	0411142-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	15:30	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(3-5)	0411142-02C	N1	0411142-ecen	SW6010B, SW7471A
11/8/04	15:41	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(8-10)	0411142-03A	N1	0411142-ecen	SW8260B
11/8/04	15:41	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(8-10)	0411142-03B	N1	0411142-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	15:41	AA2-SB026	PBOW-04-SO-AA2-SB-26-A(8-10)	0411142-03C	N1	0411142-ecen	SW6010B, SW7471A
11/8/04	15:20	AA2-SB026	PBOW-04-SO-AA2-SB-26A(0.5-1.5)	0411142-01A	N1	0411142-ecen	SW8260B
11/8/04	15:20	AA2-SB026	PBOW-04-SO-AA2-SB-26A(0.5-1.5)	0411142-01BDL	N1	0411142-ecen	SW8270C
11/8/04	15:20	AA2-SB026	PBOW-04-SO-AA2-SB-26A(0.5-1.5)	0411142-01B	N1	0411142-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	15:20	AA2-SB026	PBOW-04-SO-AA2-SB-26A(0.5-1.5)	0411142-01C	N1	0411142-ecen	SW6010B, SW7471A
11/8/04	11:20	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(0.5-1.5)	0411143-01A	N1	0411143-ecen	SW8260B
11/8/04	11:20	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(0.5-1.5)	0411143-01B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	11:20	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(0.5-1.5)	0411143-01C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	11:30	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(3-5)	0411143-02A	N1	0411143-ecen	SW8260B
11/8/04	11:30	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(3-5)	0411143-02B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	11:30	AA3-SB026	PBOW-04-SO-AA3-SB-26-A(3-5)	0411143-02C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	12:50	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(0.5-1.5)	0411143-03A	N1	0411143-ecen	SW8260B
11/8/04	12:50	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(0.5-1.5)	0411143-03B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	12:50	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(0.5-1.5)	0411143-03C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	13:00	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(3-5)	0411143-04A	N1	0411143-ecen	SW8260B
11/8/04	13:00	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(3-5)	0411143-04B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	13:00	AA3-SB027	PBOW-04-SO-AA3-SB-27-A(3-5)	0411143-04C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	13:40	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(0.5-1.5)	0411143-05A	N1	0411143-ecen	SW8260B
11/8/04	13:40	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(0.5-1.5)	0411143-05B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	13:40	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(0.5-1.5)	0411143-05C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	13:50	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(3-5)	0411143-06A	N1	0411143-ecen	SW8260B
11/8/04	13:50	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(3-5)	0411143-06B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	13:50	AA3-SB028	PBOW-04-SO-AA3-SB-28-A(3-5)	0411143-06C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	14:36	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(0.5-1.5)	0411143-07A	N1	0411143-ecen	SW8260B
11/8/04	14:36	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(0.5-1.5)	0411143-07B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	14:36	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(0.5-1.5)	0411143-07C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	14:45	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(3-5)	0411143-08A	N1	0411143-ecen	SW8260B
11/8/04	14:45	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(3-5)	0411143-08B	N1	0411143-ecen	D2216, SW8082, SW8270C, SW8330
11/8/04	14:45	AA3-SB029	PBOW-04-SO-AA3-SB-29-A(3-5)	0411143-08C	N1	0411143-ecen	SW6010B, SW7471A
11/8/04	16:09	FIELDQC	PBOW-04-TB-110804-01	0411143-09A	TB1	0411143-ecen	SW8260B

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(0.5-1.5)	0411164-01A	N1	0411164-ecen	SW8260B
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(0.5-1.5)	0411164-01B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(0.5-1.5)	0411164-01C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	9:00	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(3-5)	0411164-03A	N1	0411164-ecen	SW8260B
11/9/04	9:00	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(3-5)	0411164-03BDL	N1	0411164-ecen	SW8270C
11/9/04	9:00	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(3-5)	0411164-03B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	9:00	AA3-SB017	PBOW-04-SO-AA3-SB-17-A(3-5)	0411164-03C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-D(0.5-1.5)	0411164-02A	FD1	0411164-ecen	SW8260B
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-D(0.5-1.5)	0411164-02B	FD1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	8:47	AA3-SB017	PBOW-04-SO-AA3-SB-17-D(0.5-1.5)	0411164-02C	FD1	0411164-ecen	SW6010B, SW7471A
11/9/04	9:52	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(0.5-1.5)	0411164-04A	N1	0411164-ecen	SW8260B
11/9/04	9:52	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(0.5-1.5)	0411164-04B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	9:52	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(0.5-1.5)	0411164-04C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(3-5)	0411164-05A	N1	0411164-ecen	SW8260B
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(3-5)	0411164-05B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(3-5)	0411164-05C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	10:20	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(8-10)	0411164-07A	N1	0411164-ecen	SW8260B
11/9/04	10:20	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(8-10)	0411164-07B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	10:20	AA3-SB019	PBOW-04-SO-AA3-SB-19-A(8-10)	0411164-07C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-D(3-5)	0411164-06A	FD1	0411164-ecen	SW8260B
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-D(3-5)	0411164-06B	FD1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	10:03	AA3-SB019	PBOW-04-SO-AA3-SB-19-D(3-5)	0411164-06C	FD1	0411164-ecen	SW6010B, SW7471A
11/9/04	10:55	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(0.5-1.5)	0411164-08A	N1	0411164-ecen	SW8260B
11/9/04	10:55	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(0.5-1.5)	0411164-08B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	10:55	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(0.5-1.5)	0411164-08C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	11:10	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(3-5)	0411164-09A	N1	0411164-ecen	SW8260B
11/9/04	11:10	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(3-5)	0411164-09B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	11:10	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(3-5)	0411164-09C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(8-10)	0411164-10A	N1	0411164-ecen	SW8260B
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(8-10)	0411164-10B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-A(8-10)	0411164-10C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-D(8-10)	0411164-11A	FD1	0411164-ecen	SW8260B
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-D(8-10)	0411164-11B	FD1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	11:20	AA3-SB021	PBOW-04-SO-AA3-SB-21-D(8-10)	0411164-11C	FD1	0411164-ecen	SW6010B, SW7471A
11/9/04	13:08	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(0.5-1.5)	0411164-12A	N1	0411164-ecen	SW8260B
11/9/04	13:08	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(0.5-1.5)	0411164-12B	N1	0411164-ecen	D2216, SW8082, SW8330
11/9/04	13:08	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(0.5-1.5)	0411164-12BRA	N1	0411164-ecen	SW8270C
11/9/04	13:08	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(0.5-1.5)	0411164-12C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(3-5)	0411164-13A	N1	0411164-ecen	SW8260B

Plum Brook Acid Areas 2 and 3 Soil and Sediment Investigation Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(3-5)	0411164-13B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(3-5)	0411164-13C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	13:38	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(8-10)	0411164-15ARA	N1	0411164-ecen	SW8260B
11/9/04	13:38	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(8-10)	0411164-15B	N1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	13:38	AA3-SB023	PBOW-04-SO-AA3-SB-23-A(8-10)	0411164-15C	N1	0411164-ecen	SW6010B, SW7471A
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-D(3-5)	0411164-14A	FD1	0411164-ecen	SW8260B
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-D(3-5)	0411164-14B	FD1	0411164-ecen	D2216, SW8082, SW8270C, SW8330
11/9/04	13:20	AA3-SB023	PBOW-04-SO-AA3-SB-23-D(3-5)	0411164-14C	FD1	0411164-ecen	SW6010B, SW7471A
11/9/04	14:33	FIELDQC	PBOW-04-TB-110904-02	0411164-16A	TB1	0411164-ecen	SW8260B

ATTACHMENT 2

TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Qualifier Definitions:

=	result is greater than reporting limit;
TR	result is greater than detection limit, but less than reporting limit;
J	result is estimated;
BJ	result is estimated, compound detected in associated blank;
U	non-detect;
UJ	estimated non-detect;
R	result is rejected, data is unusable.

The value associated with the "ND/U" flag is the detection limit.

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-D-(3-5) 10/28/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	6.95/=	16.8/=	16.1/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0303 ND/U	0.0300 ND/U	0.0309 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0294 ND/U	0.0291 ND/U	0.0300 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0407 ND/U	0.0403 ND/U	0.0415 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0674 ND/U	0.0668 ND/U	0.0688 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0621 ND/U	0.0615 ND/U	0.0634 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0485 ND/U	0.0480 ND/U	0.0495 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.102 ND/U	0.101 ND/U	0.104 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.140 ND/U	0.138 ND/U	0.142 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0606 ND/U	0.0600 ND/U	0.0618 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.101 ND/U	0.100 ND/U	0.103 ND/U
SW8330	HMX	mg/Kg	0.0273 ND/U	0.0271 ND/U	0.0279 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0521 ND/U	0.0516 ND/U	0.0531 ND/U
SW8330	RDX	mg/Kg	0.0350 ND/U	0.0347 ND/U	0.0357 ND/U
SW8330	Tetryl	mg/Kg	0.0965 ND/UJ	0.0956 ND/UJ	0.0984 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	6340/=	12100/=	12500/=
SW6010B	Antimony (total)	mg/Kg	0.559 ND/U	1.41/TR/J	1.04/TR/J
SW6010B	Arsenic (total)	mg/Kg	5.41/= /J	13.9/= /J	14.8/= /J
SW6010B	Barium (total)	mg/Kg	55.1/=	80.5/=	70.5/=
SW6010B	Beryllium (total)	mg/Kg	0.247/TR/J	0.625/=	0.626/=
SW6010B	Cadmium (total)	mg/Kg	0.358/TR/J	0.532/= /J	0.461/TR/J
SW6010B	Calcium (total)	mg/Kg	15900/=	11600/= /J	4720/= /J
SW6010B	Chromium (total)	mg/Kg	12.4/=	31.0/=	21.8/=
SW6010B	Cobalt (total)	mg/Kg	5.15/=	14.3/=	13.1/=
SW6010B	Copper (total)	mg/Kg	11.8/=	22.2/=	27.8/=
SW6010B	Iron (total)	mg/Kg	16500/=	29700/=	28600/=
SW6010B	Lead (total)	mg/Kg	27.6/=	15.3/=	14.4/=
SW6010B	Magnesium (total)	mg/Kg	3020/=	4480/=	4540/=
SW6010B	Manganese (total)	mg/Kg	316/=	799/=	621/=
SW7471A	Mercury (total)	mg/Kg	0.0224/TR/J	0.0184/TR/J	0.0298/TR/J
SW6010B	Nickel (total)	mg/Kg	13.4/=	33.9/=	35.0/=
SW6010B	Potassium (total)	mg/Kg	672/=	1420/=	1670/=
SW6010B	Selenium (total)	mg/Kg	1.01 ND/U	1.16 ND/U	1.21 ND/U
SW6010B	Silver (total)	mg/Kg	0.144/TR/J	0.206/TR/J	0.172/TR/J
SW6010B	Sodium (total)	mg/Kg	69.2/TR/J	72.7/TR/J	75.4/TR/J
SW6010B	Thallium (total)	mg/Kg	3.81/=	6.33/=	5.06/=
SW6010B	Vanadium (total)	mg/Kg	18.6/=	30.0/=	31.4/=

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-D-(3-5) 10/28/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	89.6/= /J	70.8/= /J	77.4/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	850 ND/U	9.24 ND/U	9.28 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	3570 ND/U	38.7 ND/U	38.9 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	1920 ND/U	20.9 ND/U	21.0 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	1840 ND/U	20.0 ND/U	20.1 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	1880 ND/U	20.4 ND/U	20.5 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	3330/TR/J	30.0/TR/J	17.8 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	7550/TR/J	67.4/TR/J	39.4/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	44.9 ND/U	51.4 ND/U	52.9 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	44.6 ND/U	51.0 ND/U	52.5 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	30.4 ND/U	34.8 ND/U	35.9 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	33.1 ND/U	37.9 ND/U	39.0 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	265 ND/U	304 ND/U	313 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	464 ND/U	531 ND/U	547 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	112 ND/U	128 ND/U	132 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	135 ND/U	154 ND/U	159 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	360 ND/U	412 ND/U	424 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	105 ND/U	120 ND/U	123 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	142 ND/U	162 ND/U	167 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	33.1 ND/U	37.9 ND/U	39.0 ND/U
SW8270C	2-Chlorophenol	ug/Kg	103 ND/U	118 ND/U	121 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	26.0 ND/U	29.8 ND/U	30.7 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	212 ND/U	243 ND/U	250 ND/U
SW8270C	2-Nitroaniline	ug/Kg	185 ND/U	211 ND/U	217 ND/U
SW8270C	2-Nitrophenol	ug/Kg	272 ND/U	312 ND/U	321 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	183 ND/U	209 ND/U	215 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	138 ND/U	158 ND/U	162 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	373 ND/U	427 ND/U	440 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	256 ND/U	293 ND/U	302 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	83.2 ND/U	95.2 ND/U	98.0 ND/U
SW8270C	4-Nitroaniline	ug/Kg	200 ND/UJ	229 ND/UJ	236 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	135 ND/U	154 ND/U	159 ND/U
SW8270C	Acenaphthene	ug/Kg	11.5 ND/U	13.1 ND/U	13.5 ND/U
SW8270C	Acenaphthylene	ug/Kg	109/TR/J	41.7 ND/U	42.9 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-D-(3-5) 10/28/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	104/TR/J	30.4 ND/U	31.3 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	231/TR/J	21.9 ND/U	22.6 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	200/TR/J	29.7 ND/U	30.6 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	194/TR/J	28.3 ND/U	29.2 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	279/TR/J	26.9 ND/U	27.7 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	219/TR/J	32.1 ND/U	33.0 ND/U
SW8270C	Benzoic acid	ug/Kg	413 ND/U	473 ND/U	487 ND/U
SW8270C	Benzyl alcohol	ug/Kg	469 ND/U	536 ND/U	552 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	129 ND/U	147 ND/U	152 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	43.3 ND/U	49.5 ND/U	51.0 ND/U
SW8270C	Chrysene	ug/Kg	250/TR/J	17.3 ND/U	17.9 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	403 ND/U	461 ND/U	475 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	80.8 ND/U	92.5 ND/U	95.2 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	91.4/TR/J	22.6 ND/U	23.3 ND/U
SW8270C	Dibenzofuran	ug/Kg	242 ND/U	277 ND/U	286 ND/U
SW8270C	Diethylphthalate	ug/Kg	362 ND/U	414 ND/U	427 ND/U
SW8270C	Dimethylphthalate	ug/Kg	206 ND/U	236 ND/U	243 ND/U
SW8270C	Fluoranthene	ug/Kg	365/=	18.8 ND/U	19.4 ND/U
SW8270C	Fluorene	ug/Kg	9.65 ND/U	11.0 ND/U	11.4 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	82.2 ND/U	94.1 ND/U	96.9 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	26.8 ND/U	30.7 ND/U	31.6 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	132 ND/UJ	ND/UR	155 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	51.4 ND/U	58.8 ND/U	60.5 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	340/=	28.3 ND/U	29.2 ND/U
SW8270C	Isophorone	ug/Kg	19.1 ND/U	21.9 ND/U	22.6 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	86.2 ND/U	98.6 ND/U	102 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	49.9 ND/U	57.1 ND/U	58.8 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	85.0 ND/U	97.2 ND/U	100 ND/U
SW8270C	Naphthalene	ug/Kg	9.45 ND/U	10.8 ND/U	11.1 ND/U
SW8270C	Nitrobenzene	ug/Kg	53.9 ND/U	61.6 ND/U	63.5 ND/U
SW8270C	Pentachlorophenol	ug/Kg	209 ND/U	240 ND/U	247 ND/U
SW8270C	Phenanthrene	ug/Kg	90.2/TR/J	21.1 ND/U	21.7 ND/U
SW8270C	Phenol	ug/Kg	110 ND/U	126 ND/U	129 ND/U
SW8270C	Pyrene	ug/Kg	287/TR/J	16.3 ND/U	16.8 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	33.5 ND/U	38.4 ND/U	39.5 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	93.6 ND/U	107 ND/U	110 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-16-D-(3-5) 10/28/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	106 ND/U	121 ND/U	125 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	329 ND/U	377 ND/U	388 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.48 ND/U	1.27 ND/U	1.33 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.636 ND/U	0.544 ND/U	0.573 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.60 ND/U	1.37 ND/U	1.44 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.790 ND/U	0.676 ND/U	0.711 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.866 ND/U	0.740 ND/U	0.779 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.79 ND/U	1.53 ND/U	1.61 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.952 ND/U	0.814 ND/U	0.857 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.20 ND/U	1.03 ND/U	1.08 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.72 ND/U	1.47 ND/U	1.55 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.664 ND/U	0.568 ND/U	0.598 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.05 ND/U	0.902 ND/U	0.949 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.768 ND/U	0.657 ND/U	0.691 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.333 ND/U	0.285 ND/U	0.299 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.16 ND/U	0.994 ND/U	1.05 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.06 ND/U	0.908 ND/U	0.956 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	7.80/TR/J	4.08/TR/J	2.78/TR/J
SW8260B	2-Hexanone	ug/Kg	0.960 ND/U	0.821 ND/U	0.864 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.05 ND/U	0.900 ND/U	0.947 ND/U
SW8260B	Acetone	ug/Kg	115/= /B	1.52 ND/U	1.60 ND/U
SW8260B	Benzene	ug/Kg	2.14/TR/J	0.798 ND/U	0.840 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.06 ND/U	0.906 ND/U	0.954 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.977 ND/U	0.835 ND/U	0.879 ND/U
SW8260B	Bromoform	ug/Kg	1.08 ND/U	0.921 ND/U	0.969 ND/U
SW8260B	Bromomethane	ug/Kg	1.54 ND/U	1.31 ND/U	1.38 ND/U
SW8260B	Carbon Disulfide	ug/Kg	6.78/=	1.30 ND/U	1.37 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.35 ND/U	1.16 ND/U	1.22 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.07 ND/U	0.912 ND/U	0.960 ND/U
SW8260B	Chloroethane	ug/Kg	1.68 ND/U	1.44 ND/U	1.52 ND/U
SW8260B	Chloroform	ug/Kg	0.356 ND/U	0.305 ND/U	0.321 ND/U
SW8260B	Chloromethane	ug/Kg	1.54 ND/U	1.31 ND/U	1.38 ND/U
SW8260B	Cyclohexane	ug/Kg	6.21/=	1.50 ND/U	1.58 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.26 ND/U	1.08 ND/U	1.13 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.90 ND/U	1.62 ND/U	1.71 ND/U
SW8260B	Ethylbenzene	ug/Kg	1.46/TR/J	0.607 ND/U	0.639 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.45 ND/U	1.24 ND/U	1.31 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.72 ND/UJ	3.18 ND/UJ	3.35 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	7.25/=	0.702 ND/U	0.930/TR/J

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SW8260B	Methylene Chloride	ug/Kg	1.05 ND/U	0.897 ND/U	0.944 ND/U
SW8260B	Styrene	ug/Kg	0.974 ND/U	0.834 ND/U	0.877 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.995 ND/U	0.851 ND/U	0.895 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.59 ND/U	1.36 ND/U	1.43 ND/U
SW8260B	Toluene	ug/Kg	5.36/=	0.716 ND/U	0.753 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.40 ND/U	1.19 ND/U	1.26 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.468 ND/UJ	0.400 ND/UJ	0.421 ND/UJ
SW8260B	Vinyl chloride	ug/Kg	1.52 ND/U	1.30 ND/U	1.37 ND/U
SW8260B	Xylenes, Total	ug/Kg	4.87/TR/J	1.02 ND/U	1.07 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.936 ND/U	0.801 ND/U	0.843 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.07 ND/U	0.912 ND/U	0.960 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.36 ND/U	1.17 ND/U	1.23 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.804 ND/U	0.688 ND/U	0.724 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(8-10) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-17-A-(3-5) 10/28/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	22.5/=	18.4/=	16.1/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0305 ND/U	0.0306 ND/U	0.0309 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0295 ND/U	0.0297 ND/U	0.0299 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0409 ND/U	0.0411 ND/U	0.0414 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0677 ND/U	0.0681 ND/U	0.0687 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0625 ND/U	0.0628 ND/U	0.0633 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0487 ND/U	0.0490 ND/U	0.0494 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.104 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.140 ND/U	0.141 ND/U	0.142 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0609 ND/U	0.0612 ND/U	0.0617 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.102 ND/U	0.103 ND/U
SW8330	HMX	mg/Kg	0.0275 ND/U	0.0276 ND/U	0.0278 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0524 ND/U	0.0526 ND/U	0.0531 ND/U
SW8330	RDX	mg/Kg	0.0352 ND/U	0.0354 ND/U	0.0357 ND/U
SW8330	Tetryl	mg/Kg	0.0970 ND/UJ	0.0974 ND/UJ	0.0983 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	3720/=	10900/=	12400/=
SW6010B	Antimony (total)	mg/Kg	0.703 ND/U	0.754/TR/J	0.982/TR/J
SW6010B	Arsenic (total)	mg/Kg	0.808/TR/J	7.30/= /J	7.69/= /J
SW6010B	Barium (total)	mg/Kg	22.7/=	77.8/=	65.4/=
SW6010B	Beryllium (total)	mg/Kg	0.179/TR/J	0.558/=	0.532/=
SW6010B	Cadmium (total)	mg/Kg	0.230/TR/J	0.476/TR/J	0.246/TR/J
SW6010B	Calcium (total)	mg/Kg	62700/=	4900/=	3580/=
SW6010B	Chromium (total)	mg/Kg	6.82/=	15.7/=	20.8/=
SW6010B	Cobalt (total)	mg/Kg	4.58/=	6.92/=	7.40/=
SW6010B	Copper (total)	mg/Kg	17.7/=	18.5/=	14.4/=
SW6010B	Iron (total)	mg/Kg	14100/=	21200/=	24700/=
SW6010B	Lead (total)	mg/Kg	8.81/=	14.5/=	11.5/=
SW6010B	Magnesium (total)	mg/Kg	22000/=	2760/=	4330/=
SW6010B	Manganese (total)	mg/Kg	300/=	273/=	201/=
SW7471A	Mercury (total)	mg/Kg	0.0057 ND/U	0.0559/=	0.0098/TR/J
SW6010B	Nickel (total)	mg/Kg	12.4/=	18.6/=	23.4/=
SW6010B	Potassium (total)	mg/Kg	810/=	1080/=	1620/=
SW6010B	Selenium (total)	mg/Kg	6.35 ND/U	1.27 ND/U	1.32 ND/U
SW6010B	Silver (total)	mg/Kg	0.328/TR/J	0.156/TR/J	0.178/TR/J
SW6010B	Sodium (total)	mg/Kg	126/TR/J	42.3/TR/J	69.3/TR/J
SW6010B	Thallium (total)	mg/Kg	18.2/=	3.96/=	3.45/=
SW6010B	Vanadium (total)	mg/Kg	12.9/=	26.2/=	26.8/=

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SW6010B	Zinc (total)	mg/Kg	35.9/= /J	73.2/= /J	65.8/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	10.4 ND/U	198 ND/U	9.37 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	43.7 ND/U	7430 ND/U	39.3 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	23.6 ND/U	870 ND/U	21.2 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	22.5 ND/U	428 ND/U	20.3 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	23.0 ND/U	1480 ND/U	20.7 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	20.0 ND/U	764/TR/J	18.0 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.58 ND/U	2210/TR/J	5.02 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	55.5 ND/U	51.6 ND/U	52.6 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	55.1 ND/U	51.2 ND/U	52.2 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	37.6 ND/U	34.9 ND/U	35.6 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	40.9 ND/U	38.0 ND/U	38.8 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	328 ND/U	305 ND/U	311 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	573 ND/U	533 ND/U	543 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	138 ND/U	128 ND/U	131 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	166 ND/U	155 ND/U	158 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	445 ND/U	414 ND/U	422 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	129 ND/U	120 ND/U	123 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	175 ND/U	163 ND/U	166 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	40.9 ND/U	38.0 ND/U	38.8 ND/U
SW8270C	2-Chlorophenol	ug/Kg	127 ND/U	118 ND/U	120 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	32.2 ND/U	29.9 ND/U	30.5 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	263 ND/U	244 ND/U	249 ND/U
SW8270C	2-Nitroaniline	ug/Kg	228 ND/U	212 ND/U	216 ND/U
SW8270C	2-Nitrophenol	ug/Kg	337 ND/U	313 ND/U	319 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	226 ND/U	210 ND/U	214 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	170 ND/U	158 ND/U	161 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	461 ND/U	429 ND/U	437 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	317 ND/U	294 ND/U	300 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	103 ND/U	95.6 ND/U	97.4 ND/U
SW8270C	4-Nitroaniline	ug/Kg	248 ND/UJ	230 ND/UJ	235 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	166 ND/U	155 ND/U	158 ND/U
SW8270C	Acenaphthene	ug/Kg	14.2 ND/U	13.2 ND/U	13.4 ND/U
SW8270C	Acenaphthylene	ug/Kg	45.0 ND/U	41.8 ND/U	42.6 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-16-A-(8-10) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-17-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-17-A-(3-5) 10/28/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	32.8 ND/U	30.5 ND/U	31.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.7 ND/U	22.0 ND/U	22.4 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	32.1 ND/U	29.8 ND/U	30.4 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	30.6 ND/U	28.4 ND/U	29.0 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	29.1 ND/U	27.0 ND/U	27.6 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	34.6 ND/U	32.2 ND/U	32.8 ND/U
SW8270C	Benzoic acid	ug/Kg	510 ND/U	474 ND/U	484 ND/U
SW8270C	Benzyl alcohol	ug/Kg	580 ND/U	539 ND/U	549 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	159 ND/U	148 ND/U	151 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	53.5 ND/U	49.7 ND/U	50.7 ND/U
SW8270C	Chrysene	ug/Kg	18.7 ND/U	17.4 ND/U	17.8 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	498 ND/U	1210/=	472 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	99.9 ND/U	92.8 ND/U	94.6 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	24.4 ND/U	22.7 ND/U	23.1 ND/U
SW8270C	Dibenzofuran	ug/Kg	300 ND/U	278 ND/U	284 ND/U
SW8270C	Diethylphthalate	ug/Kg	448 ND/U	416 ND/U	424 ND/U
SW8270C	Dimethylphthalate	ug/Kg	255 ND/U	237 ND/U	242 ND/U
SW8270C	Fluoranthene	ug/Kg	20.3 ND/U	66.7/TR/J	19.3 ND/U
SW8270C	Fluorene	ug/Kg	11.9 ND/U	11.1 ND/U	11.3 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	102 ND/U	94.4 ND/U	96.2 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	33.2 ND/U	30.8 ND/U	31.4 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	163 ND/UJ	151 ND/UJ	154 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	63.5 ND/U	59.0 ND/U	60.1 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	30.6 ND/U	28.4 ND/U	29.0 ND/U
SW8270C	Isophorone	ug/Kg	23.7 ND/U	22.0 ND/U	22.4 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	107 ND/U	99.0 ND/U	101 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	61.6 ND/U	57.3 ND/U	58.4 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	105 ND/U	97.6 ND/U	99.5 ND/U
SW8270C	Naphthalene	ug/Kg	11.7 ND/U	10.9 ND/U	11.1 ND/U
SW8270C	Nitrobenzene	ug/Kg	66.6 ND/U	61.9 ND/U	63.1 ND/U
SW8270C	Pentachlorophenol	ug/Kg	259 ND/U	241 ND/U	245 ND/U
SW8270C	Phenanthrene	ug/Kg	22.8 ND/U	21.2 ND/U	21.6 ND/U
SW8270C	Phenol	ug/Kg	136 ND/U	126 ND/U	128 ND/U
SW8270C	Pyrene	ug/Kg	17.6 ND/U	16.4 ND/U	16.7 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	41.4 ND/U	38.5 ND/U	39.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	116 ND/U	107 ND/U	110 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	131 ND/U	121 ND/U	124 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	407 ND/U	378 ND/U	385 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.55 ND/UJ	1.71 ND/U	1.34 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.666 ND/UJ	0.735 ND/U	0.577 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.67 ND/UJ	1.85 ND/U	1.45 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.827 ND/UJ	0.912 ND/U	0.716 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.906 ND/UJ	0.999 ND/U	0.784 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.88 ND/UJ	2.07 ND/U	1.62 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.997 ND/UJ	1.10 ND/U	0.863 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.26 ND/UJ	1.39 ND/U	1.09 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.80 ND/UJ	1.98 ND/U	1.56 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.695 ND/UJ	0.767 ND/U	0.602 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.10 ND/UJ	1.22 ND/U	0.955 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.804 ND/UJ	0.886 ND/U	0.695 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.348 ND/UJ	0.384 ND/U	0.301 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.22 ND/UJ	1.34 ND/U	1.05 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.11 ND/UJ	1.23 ND/U	0.962 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.27 ND/UJ	10.9/TR/J	1.10 ND/U
SW8260B	2-Hexanone	ug/Kg	1.00 ND/UJ	1.11 ND/U	0.869 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.10 ND/UJ	1.21 ND/U	0.953 ND/U
SW8260B	Acetone	ug/Kg	1.86 ND/U	128/= /B	1.61 ND/U
SW8260B	Benzene	ug/Kg	6.89/= /J	1.08 ND/U	0.845 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.11 ND/UJ	1.22 ND/U	0.960 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.02 ND/UJ	1.13 ND/U	0.885 ND/U
SW8260B	Bromoform	ug/Kg	1.13 ND/UJ	1.24 ND/U	0.976 ND/U
SW8260B	Bromomethane	ug/Kg	1.61 ND/UJ	1.77 ND/U	1.39 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.60 ND/UJ	1.76 ND/U	1.38 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.42 ND/UJ	1.56 ND/U	1.23 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.12 ND/UJ	1.23 ND/U	0.966 ND/U
SW8260B	Chloroethane	ug/Kg	1.76 ND/UJ	1.94 ND/U	1.53 ND/U
SW8260B	Chloroform	ug/Kg	0.373 ND/UJ	0.411 ND/U	0.323 ND/U
SW8260B	Chloromethane	ug/Kg	1.61 ND/UJ	1.77 ND/U	1.39 ND/U
SW8260B	Cyclohexane	ug/Kg	10.7/= /J	2.03 ND/U	1.59 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.32 ND/UJ	1.45 ND/U	1.14 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.99 ND/UJ	2.19 ND/U	1.72 ND/U
SW8260B	Ethylbenzene	ug/Kg	1.18/TR/J	0.819 ND/U	0.643 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.52 ND/UJ	1.67 ND/U	1.31 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.90 ND/UJ	4.29 ND/UJ	3.37 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	11.1/= /J	0.947 ND/U	0.744 ND/U

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SW8260B	Methylene Chloride	ug/Kg	1.10 ND/UJ	1.21 ND/U	0.950 ND/U
SW8260B	Styrene	ug/Kg	1.02 ND/UJ	1.12 ND/U	0.883 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.04 ND/UJ	1.15 ND/U	0.901 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.66 ND/UJ	1.83 ND/U	1.44 ND/U
SW8260B	Toluene	ug/Kg	9.12/= /J	0.966 ND/U	0.758 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.46 ND/UJ	1.61 ND/U	1.27 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.490 ND/UJ	0.540 ND/U	0.424 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.60 ND/UJ	1.76 ND/U	1.38 ND/U
SW8260B	Xylenes, Total	ug/Kg	3.69/TR/J	1.38 ND/U	1.08 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.980 ND/UJ	1.08 ND/U	0.848 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.12 ND/UJ	1.23 ND/U	0.966 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.43 ND/UJ	1.57 ND/U	1.24 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.842 ND/UJ	0.928 ND/U	0.728 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	18.4/=	10.1/=	5.07/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0305 ND/U	0.0300 ND/U	0.0303 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0295 ND/U	0.0291 ND/U	0.0294 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0409 ND/U	0.0403 ND/U	0.0407 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0677 ND/U	0.0668 ND/U	0.0674 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0625 ND/U	0.0615 ND/U	0.0621 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0487 ND/U	0.0480 ND/U	0.0485 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.101 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.140 ND/U	0.138 ND/U	0.140 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0609 ND/U	0.0600 ND/U	0.0606 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.100 ND/U	0.101 ND/U
SW8330	HMX	mg/Kg	0.0275 ND/U	0.0271 ND/U	0.0273 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0524 ND/U	0.0516 ND/U	0.0521 ND/U
SW8330	RDX	mg/Kg	0.0352 ND/U	0.0347 ND/U	0.0350 ND/U
SW8330	Tetryl	mg/Kg	0.0970 ND/UJ	0.0956 ND/UJ	0.0965 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	10400/=	5010/=	4770/=
SW6010B	Antimony (total)	mg/Kg	0.689 ND/U	0.720 ND/U	0.682 ND/U
SW6010B	Arsenic (total)	mg/Kg	11.7/= /J	6.24/= /J	4.22/= /J
SW6010B	Barium (total)	mg/Kg	77.5/=	18.7/=	17.7/=
SW6010B	Beryllium (total)	mg/Kg	0.490/TR/J	0.226/TR/J	0.196/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.458/TR/J	0.241/TR/J	0.220/TR/J
SW6010B	Calcium (total)	mg/Kg	54500/=	1040/=	988/=
SW6010B	Chromium (total)	mg/Kg	17.3/=	8.77/=	7.67/=
SW6010B	Cobalt (total)	mg/Kg	10.2/=	6.91/=	6.55/=
SW6010B	Copper (total)	mg/Kg	24.3/=	8.93/=	7.22/=
SW6010B	Iron (total)	mg/Kg	30200/=	13200/=	11400/=
SW6010B	Lead (total)	mg/Kg	14.1/=	5.94/=	5.29/=
SW6010B	Magnesium (total)	mg/Kg	16300/=	961/=	861/=
SW6010B	Manganese (total)	mg/Kg	378/=	454/=	447/=
SW7471A	Mercury (total)	mg/Kg	0.0046 ND/U	0.0396/=	0.0245/=
SW6010B	Nickel (total)	mg/Kg	30.2/=	11.8/=	10.6/=
SW6010B	Potassium (total)	mg/Kg	2180/=	377/=	348/=
SW6010B	Selenium (total)	mg/Kg	2.49 ND/U	1.30 ND/U	1.23 ND/U
SW6010B	Silver (total)	mg/Kg	0.350/TR/J	0.106 ND/U	0.100 ND/U
SW6010B	Sodium (total)	mg/Kg	147/TR/J	41.1/TR/J	39.1/TR/J
SW6010B	Thallium (total)	mg/Kg	1.05 ND/U	2.99/=	2.86/=
SW6010B	Vanadium (total)	mg/Kg	25.3/=	18.8/=	16.4/=

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SW6010B	Zinc (total)	mg/Kg	69.2/= /J	25.6/= /J	22.1/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.74 ND/U	8.66 ND/U	8.31 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	40.8 ND/U	36.3 ND/U	34.8 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	22.0 ND/U	19.6 ND/U	18.8 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	21.1 ND/U	18.7 ND/U	18.0 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.5 ND/U	19.2 ND/U	18.4 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.7 ND/U	16.7/TR/J	16.0 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.22 ND/U	48.1/TR/J	37.0/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	54.0 ND/U	48.3 ND/U	44.1 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.6 ND/U	48.0 ND/U	43.8 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.6 ND/U	32.7 ND/U	29.9 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.8 ND/U	35.6 ND/U	32.6 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	319 ND/U	285 ND/U	261 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	558 ND/U	499 ND/U	456 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	134 ND/U	120 ND/U	110 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	162 ND/U	145 ND/U	132 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	433 ND/U	387 ND/U	354 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	126 ND/U	113 ND/U	103 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	170 ND/U	152 ND/U	139 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.8 ND/U	35.6 ND/U	32.6 ND/U
SW8270C	2-Chlorophenol	ug/Kg	124 ND/U	111 ND/U	101 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.3 ND/U	28.0 ND/U	25.6 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	255 ND/U	229 ND/U	209 ND/U
SW8270C	2-Nitroaniline	ug/Kg	222 ND/U	199 ND/U	181 ND/U
SW8270C	2-Nitrophenol	ug/Kg	327 ND/U	293 ND/U	268 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	219 ND/U	196 ND/U	179 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	165 ND/U	148 ND/U	135 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	448 ND/U	401 ND/U	367 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	308 ND/U	276 ND/U	252 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	100 ND/U	89.5 ND/U	81.8 ND/U
SW8270C	4-Nitroaniline	ug/Kg	241 ND/UJ	216 ND/UJ	197 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	162 ND/U	145 ND/U	132 ND/U
SW8270C	Acenaphthene	ug/Kg	13.8 ND/U	12.3 ND/U	11.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.8 ND/U	39.2 ND/U	35.8 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-17-A-(8-10) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5) 10/28/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	31.9 ND/U	28.5 ND/U	26.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.0 ND/U	20.6 ND/U	18.8 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	31.2 ND/U	27.9 ND/U	25.5 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.7 ND/U	26.6 ND/U	24.3 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.3 ND/U	25.3 ND/U	23.1 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.7 ND/U	30.2 ND/U	27.6 ND/U
SW8270C	Benzoic acid	ug/Kg	496 ND/U	444 ND/U	406 ND/U
SW8270C	Benzyl alcohol	ug/Kg	564 ND/U	504 ND/U	461 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	155 ND/U	138 ND/U	127 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	52.0 ND/U	46.6 ND/U	42.6 ND/U
SW8270C	Chrysene	ug/Kg	18.2 ND/U	16.3 ND/U	14.9 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	484 ND/U	434 ND/U	396 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	97.1 ND/U	86.9 ND/U	79.4 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.7 ND/U	21.2 ND/U	19.4 ND/U
SW8270C	Dibenzofuran	ug/Kg	291 ND/U	261 ND/U	238 ND/U
SW8270C	Diethylphthalate	ug/Kg	435 ND/U	390 ND/U	356 ND/U
SW8270C	Dimethylphthalate	ug/Kg	248 ND/U	222 ND/U	203 ND/U
SW8270C	Fluoranthene	ug/Kg	19.8 ND/U	17.7 ND/U	16.2 ND/U
SW8270C	Fluorene	ug/Kg	11.6 ND/U	10.4 ND/U	9.49 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	98.8 ND/U	88.4 ND/U	80.8 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.3 ND/U	28.9 ND/U	26.4 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	ND/UR	142 ND/UJ	129 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.8 ND/U	55.3 ND/U	50.5 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.7 ND/U	26.6 ND/U	24.3 ND/U
SW8270C	Isophorone	ug/Kg	23.0 ND/U	20.6 ND/U	18.8 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	104 ND/U	92.7 ND/U	84.7 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	60.0 ND/U	53.7 ND/U	49.0 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	102 ND/U	91.4 ND/U	83.6 ND/U
SW8270C	Naphthalene	ug/Kg	11.4 ND/U	10.2 ND/U	9.29 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.8 ND/U	58.0 ND/U	53.0 ND/U
SW8270C	Pentachlorophenol	ug/Kg	252 ND/U	225 ND/U	206 ND/U
SW8270C	Phenanthrene	ug/Kg	22.2 ND/U	19.9 ND/U	18.1 ND/U
SW8270C	Phenol	ug/Kg	132 ND/U	118 ND/U	108 ND/U
SW8270C	Pyrene	ug/Kg	17.1 ND/U	15.3 ND/U	14.0 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.3 ND/U	36.1 ND/U	33.0 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	112 ND/U	101 ND/U	92.0 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-17-A-(8-10) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-A-(0.5-1.5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-D-(0.5-1.5) 10/28/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	127 ND/U	114 ND/U	104 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	396 ND/U	354 ND/U	324 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.34 ND/UJ	1.51 ND/U	1.74 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.577 ND/UJ	0.650 ND/U	0.749 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.45 ND/UJ	1.63 ND/U	1.88 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.716 ND/UJ	0.807 ND/U	0.929 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.785 ND/UJ	0.884 ND/U	1.02 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.62 ND/UJ	1.83 ND/U	2.11 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.863 ND/UJ	0.972 ND/U	1.12 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.09 ND/UJ	1.23 ND/U	1.42 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.56 ND/UJ	1.75 ND/U	2.02 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.602 ND/UJ	0.678 ND/U	0.781 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.956 ND/UJ	1.08 ND/U	1.24 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.696 ND/UJ	0.784 ND/U	0.903 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.302 ND/UJ	0.340 ND/U	0.391 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.05 ND/UJ	1.19 ND/U	1.37 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.963 ND/UJ	1.08 ND/U	1.25 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.10 ND/UJ	20.9/=	32.2/=
SW8260B	2-Hexanone	ug/Kg	0.870 ND/UJ	0.980 ND/U	1.13 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.954 ND/UJ	1.07 ND/U	1.24 ND/U
SW8260B	Acetone	ug/Kg	1.61 ND/UJ	150/= /B	226/= /B
SW8260B	Benzene	ug/Kg	2.39/TR/J	0.952 ND/U	1.10 ND/U
SW8260B	Bromochloromethane	ug/Kg	0.961 ND/UJ	1.08 ND/U	1.25 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.885 ND/UJ	0.997 ND/U	1.15 ND/U
SW8260B	Bromoform	ug/Kg	0.976 ND/UJ	1.10 ND/U	1.27 ND/U
SW8260B	Bromomethane	ug/Kg	1.39 ND/UJ	1.57 ND/U	1.81 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.38 ND/UJ	1.56 ND/U	1.79 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.23 ND/UJ	1.38 ND/U	1.59 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.966 ND/UJ	1.09 ND/U	1.25 ND/U
SW8260B	Chloroethane	ug/Kg	1.53 ND/UJ	1.72 ND/U	1.98 ND/U
SW8260B	Chloroform	ug/Kg	0.323 ND/UJ	0.364 ND/U	0.419 ND/U
SW8260B	Chloromethane	ug/Kg	1.39 ND/UJ	1.57 ND/U	1.81 ND/U
SW8260B	Cyclohexane	ug/Kg	6.42/= /J	1.80 ND/U	2.07 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.14 ND/UJ	1.28 ND/U	1.48 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.72 ND/UJ	1.94 ND/U	2.23 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.824/TR/J	0.725 ND/U	0.835 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.31 ND/UJ	1.48 ND/U	1.71 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.37 ND/UJ	3.80 ND/UJ	4.38 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	6.17/= /J	0.838 ND/U	0.966 ND/U

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SW8260B	Methylene Chloride	ug/Kg	0.951 ND/UJ	1.07 ND/U	1.23 ND/U
SW8260B	Styrene	ug/Kg	0.883 ND/UJ	0.995 ND/U	1.15 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.902 ND/UJ	1.02 ND/U	1.17 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.44 ND/UJ	1.62 ND/U	1.87 ND/U
SW8260B	Toluene	ug/Kg	3.66/TR/J	0.854 ND/U	0.984 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.27 ND/UJ	1.43 ND/U	1.64 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.424 ND/UJ	0.478 ND/UJ	0.551 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.38 ND/UJ	1.56 ND/U	1.79 ND/U
SW8260B	Xylenes, Total	ug/Kg	3.08/TR/J	1.22 ND/U	1.40 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.849 ND/UJ	0.956 ND/U	1.10 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.966 ND/UJ	1.09 ND/U	1.25 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.24 ND/UJ	1.39 ND/U	1.61 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.729 ND/UJ	0.821 ND/U	0.946 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-18-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-D-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-A-(8-10) 10/28/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	20.0/=	19.2/=	18.8/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0309 ND/U	0.0306 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0300 ND/U	0.0297 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0415 ND/U	0.0411 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0688 ND/U	0.0681 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.0634 ND/U	0.0628 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0495 ND/U	0.0490 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.104 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.142 ND/U	0.141 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0618 ND/U	0.0612 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.102 ND/U
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0279 ND/U	0.0276 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0531 ND/U	0.0526 ND/U
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0357 ND/U	0.0354 ND/U
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0984 ND/UJ	0.0974 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9250/=	11100/=	9350/=
SW6010B	Antimony (total)	mg/Kg	0.595 ND/U	0.643 ND/U	0.828 ND/U
SW6010B	Arsenic (total)	mg/Kg	7.22/= /J	1.49/TR/J	2.38/TR/J
SW6010B	Barium (total)	mg/Kg	56.9/=	61.3/=	58.1/=
SW6010B	Beryllium (total)	mg/Kg	0.424/TR/J	0.489/=	0.407/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.356/TR/J	0.251/TR/J	0.398/TR/J
SW6010B	Calcium (total)	mg/Kg	46600/=	49500/=	57300/=
SW6010B	Chromium (total)	mg/Kg	15.5/=	17.9/=	15.7/=
SW6010B	Cobalt (total)	mg/Kg	9.04/=	7.71/=	11.1/=
SW6010B	Copper (total)	mg/Kg	23.3/=	21.6/=	26.0/=
SW6010B	Iron (total)	mg/Kg	21400/=	20400/=	22900/=
SW6010B	Lead (total)	mg/Kg	12.9/=	12.4/=	13.1/=
SW6010B	Magnesium (total)	mg/Kg	19700/=	16400/=	17500/=
SW6010B	Manganese (total)	mg/Kg	390/=	326/=	528/=
SW7471A	Mercury (total)	mg/Kg	0.0307/TR/J	0.0202/TR/J	0.0054 ND/U
SW6010B	Nickel (total)	mg/Kg	24.8/=	21.2/=	28.1/=
SW6010B	Potassium (total)	mg/Kg	1430/=	1740/=	2020/=
SW6010B	Selenium (total)	mg/Kg	2.15 ND/U	2.33 ND/U	2.99 ND/U
SW6010B	Silver (total)	mg/Kg	0.232/TR/J	0.233/TR/J	0.359/TR/J
SW6010B	Sodium (total)	mg/Kg	112/TR/J	114/TR/J	159/TR/J
SW6010B	Thallium (total)	mg/Kg	0.911 ND/U	0.984 ND/U	1.27 ND/U
SW6010B	Vanadium (total)	mg/Kg	25.8/=	26.0/=	23.5/=

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SW6010B	Zinc (total)	mg/Kg	53.6/= /J	54.9/= /J	59.9/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.85 ND/U	9.63 ND/U	9.61 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	41.3 ND/U	40.4 ND/U	40.3 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	22.3 ND/U	21.8 ND/U	21.7 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	21.3 ND/U	20.8 ND/U	20.8 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.8 ND/U	21.3 ND/U	21.2 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.9 ND/U	18.5 ND/U	18.4 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.28 ND/U	5.16 ND/U	5.15 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	54.1 ND/U	53.7 ND/U	53.6 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.7 ND/U	53.3 ND/U	53.3 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.7 ND/U	36.4 ND/U	36.3 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.9 ND/U	39.6 ND/U	39.6 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	320 ND/U	317 ND/U	317 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	559 ND/U	554 ND/U	554 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	135 ND/U	134 ND/U	133 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	162 ND/U	161 ND/U	161 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	434 ND/U	430 ND/U	430 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	126 ND/U	125 ND/U	125 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	171 ND/U	169 ND/U	169 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.9 ND/U	39.6 ND/U	39.6 ND/U
SW8270C	2-Chlorophenol	ug/Kg	124 ND/U	123 ND/U	123 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.4 ND/U	31.1 ND/U	31.1 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	256 ND/U	254 ND/U	254 ND/U
SW8270C	2-Nitroaniline	ug/Kg	222 ND/U	221 ND/U	220 ND/U
SW8270C	2-Nitrophenol	ug/Kg	328 ND/U	326 ND/U	325 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	220 ND/U	218 ND/U	218 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	166 ND/U	165 ND/U	164 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	450 ND/U	446 ND/U	446 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	309 ND/U	306 ND/U	306 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	100 ND/U	99.4 ND/U	99.4 ND/U
SW8270C	4-Nitroaniline	ug/Kg	242 ND/UJ	240 ND/UJ	240 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	162 ND/U	161 ND/U	161 ND/U
SW8270C	Acenaphthene	ug/Kg	13.8 ND/U	13.7 ND/U	13.7 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.9 ND/U	43.5 ND/U	43.5 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	32.0 ND/U	31.7 ND/U	31.7 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.1 ND/U	22.9 ND/U	22.9 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	31.2 ND/U	31.0 ND/U	31.0 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.8 ND/U	29.6 ND/U	29.6 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.4 ND/U	28.1 ND/U	28.1 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.8 ND/U	33.5 ND/U	33.5 ND/U
SW8270C	Benzoic acid	ug/Kg	498 ND/U	494 ND/U	493 ND/U
SW8270C	Benzyl alcohol	ug/Kg	565 ND/U	560 ND/U	560 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	155 ND/U	154 ND/U	154 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	52.2 ND/U	51.7 ND/U	51.7 ND/U
SW8270C	Chrysene	ug/Kg	18.3 ND/U	18.1 ND/U	18.1 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	486 ND/U	482 ND/U	481 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	97.4 ND/U	96.6 ND/U	96.5 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.8 ND/U	23.6 ND/U	23.6 ND/U
SW8270C	Dibenzofuran	ug/Kg	292 ND/U	290 ND/U	290 ND/U
SW8270C	Diethylphthalate	ug/Kg	436 ND/U	433 ND/U	433 ND/U
SW8270C	Dimethylphthalate	ug/Kg	249 ND/U	247 ND/U	247 ND/U
SW8270C	Fluoranthene	ug/Kg	19.8 ND/U	19.7 ND/U	19.7 ND/U
SW8270C	Fluorene	ug/Kg	11.6 ND/U	11.5 ND/U	11.5 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	99.0 ND/U	98.2 ND/U	98.2 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.3 ND/U	32.1 ND/U	32.1 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	159 ND/UJ	157 ND/UJ	157 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.9 ND/U	61.4 ND/U	61.4 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.8 ND/U	29.6 ND/U	29.6 ND/U
SW8270C	Isophorone	ug/Kg	23.1 ND/U	22.9 ND/U	22.9 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	104 ND/U	103 ND/U	103 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	60.1 ND/U	59.6 ND/U	59.6 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	102 ND/U	102 ND/U	102 ND/U
SW8270C	Naphthalene	ug/Kg	11.4 ND/U	11.3 ND/U	11.3 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.9 ND/U	64.4 ND/U	64.3 ND/U
SW8270C	Pentachlorophenol	ug/Kg	252 ND/U	250 ND/U	250 ND/U
SW8270C	Phenanthrene	ug/Kg	22.2 ND/U	22.1 ND/U	22.0 ND/U
SW8270C	Phenol	ug/Kg	132 ND/U	131 ND/U	131 ND/U
SW8270C	Pyrene	ug/Kg	17.2 ND/U	17.1 ND/U	17.0 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.4 ND/U	40.1 ND/U	40.0 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	113 ND/U	112 ND/U	112 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-18-A-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-D-(3-5) 10/28/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-18-A-(8-10) 10/28/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	127 ND/U	126 ND/U	126 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	397 ND/U	393 ND/U	393 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.46 ND/U	1.85 ND/U	1.36 ND/UJ
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.626 ND/U	0.793 ND/U	0.584 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.57 ND/U	1.99 ND/U	1.47 ND/UJ
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.777 ND/U	0.984 ND/U	0.725 ND/UJ
SW8260B	1,1-Dichloroethane	ug/Kg	0.852 ND/U	1.08 ND/U	0.795 ND/UJ
SW8260B	1,1-Dichloroethene	ug/Kg	1.76 ND/U	2.23 ND/U	1.64 ND/UJ
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.936 ND/U	1.19 ND/U	0.874 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.18 ND/U	1.50 ND/U	1.11 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.69 ND/U	2.14 ND/U	1.58 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.653 ND/U	0.827 ND/U	0.610 ND/UJ
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.04 ND/U	1.31 ND/U	0.968 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.755 ND/U	0.956 ND/U	0.705 ND/UJ
SW8260B	1,2-Dichloropropane	ug/Kg	0.327 ND/U	0.414 ND/U	0.305 ND/UJ
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.14 ND/U	1.45 ND/U	1.07 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.04 ND/U	1.32 ND/U	0.975 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.20 ND/U	1.51 ND/U	1.12 ND/UJ
SW8260B	2-Hexanone	ug/Kg	0.944 ND/U	1.20 ND/U	0.881 ND/UJ
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.04 ND/U	1.31 ND/U	0.966 ND/UJ
SW8260B	Acetone	ug/Kg	1.75 ND/U	2.22 ND/U	1.63 ND/U
SW8260B	Benzene	ug/Kg	5.99/=	6.95/=	2.50/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.04 ND/U	1.32 ND/U	0.973 ND/UJ
SW8260B	Bromodichloromethane	ug/Kg	0.961 ND/U	1.22 ND/U	0.897 ND/UJ
SW8260B	Bromoform	ug/Kg	1.06 ND/U	1.34 ND/U	0.989 ND/UJ
SW8260B	Bromomethane	ug/Kg	1.51 ND/U	1.91 ND/U	1.41 ND/UJ
SW8260B	Carbon Disulfide	ug/Kg	1.50 ND/U	1.90 ND/U	1.40 ND/UJ
SW8260B	Carbon tetrachloride	ug/Kg	1.33 ND/U	1.69 ND/U	1.24 ND/UJ
SW8260B	Chlorobenzene	ug/Kg	1.05 ND/U	1.33 ND/U	0.979 ND/UJ
SW8260B	Chloroethane	ug/Kg	1.66 ND/U	2.10 ND/U	1.55 ND/UJ
SW8260B	Chloroform	ug/Kg	0.350 ND/U	0.444 ND/U	0.327 ND/UJ
SW8260B	Chloromethane	ug/Kg	1.51 ND/U	1.91 ND/U	1.41 ND/UJ
SW8260B	Cyclohexane	ug/Kg	9.21/=	10.6/=	6.40/= /J
SW8260B	Dibromochloromethane	ug/Kg	1.24 ND/U	1.57 ND/U	1.16 ND/UJ
SW8260B	Dichlorodifluoromethane	ug/Kg	1.87 ND/U	2.36 ND/U	1.74 ND/UJ
SW8260B	Ethylbenzene	ug/Kg	3.18/TR/J	4.55/TR/J	0.678/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.43 ND/U	1.81 ND/U	1.33 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	3.66 ND/UJ	4.63 ND/UJ	3.42 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	12.3/=	12.1/=	6.41/= /J

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SW8260B	Methylene Chloride	ug/Kg	1.03 ND/U	1.31 ND/U	0.963 ND/UJ
SW8260B	Styrene	ug/Kg	0.958 ND/U	1.21 ND/U	0.895 ND/UJ
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.978 ND/U	1.24 ND/U	0.913 ND/UJ
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.56 ND/U	1.98 ND/U	1.46 ND/UJ
SW8260B	Toluene	ug/Kg	13.2/=	17.8/=	3.47/TR/J
SW8260B	Trichloroethene (TCE)	ug/Kg	1.37 ND/U	1.74 ND/U	1.28 ND/UJ
SW8260B	Trichlorofluoromethane	ug/Kg	0.460 ND/U	0.583 ND/U	0.430 ND/UJ
SW8260B	Vinyl chloride	ug/Kg	1.50 ND/U	1.90 ND/U	1.40 ND/UJ
SW8260B	Xylenes, Total	ug/Kg	10.4/=	13.7/=	2.93/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.921 ND/U	1.17 ND/U	0.860 ND/UJ
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.05 ND/U	1.33 ND/U	0.979 ND/UJ
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.34 ND/U	1.70 ND/U	1.25 ND/UJ
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.791 ND/U	1.00 ND/U	0.738 ND/UJ

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-19-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5) 10/29/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	12.3/=	13.7/=	14.8/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0308 ND/U	0.0295 ND/U	0.0306 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0298 ND/U	0.0285 ND/U	0.0297 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0413 ND/U	0.0395 ND/U	0.0411 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0684 ND/UJ	0.0655 ND/UJ	0.0681 ND/UJ
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0631 ND/U	0.0604 ND/U	0.0628 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0492 ND/U	0.0471 ND/U	0.0490 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.0995 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.136 ND/U	0.141 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0615 ND/U	0.0589 ND/U	0.0612 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/UJ	0.0986 ND/UJ	0.102 ND/UJ
SW8330	HMX	mg/Kg	0.0277 ND/U	0.0265 ND/U	0.0276 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0529 ND/U	0.0506 ND/U	0.0526 ND/U
SW8330	RDX	mg/Kg	0.0355 ND/U	0.0340 ND/U	0.0354 ND/U
SW8330	Tetryl	mg/Kg	0.0979 ND/UJ	0.0937 ND/UJ	0.0974 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	8330/=	11500/=	8090/=
SW6010B	Antimony (total)	mg/Kg	0.906/TR/J	1.67/TR/J	1.27/TR/J
SW6010B	Arsenic (total)	mg/Kg	5.60/= /J	15.5/= /J	6.88/= /J
SW6010B	Barium (total)	mg/Kg	64.4/=	71.5/=	63.2/=
SW6010B	Beryllium (total)	mg/Kg	0.547/=	0.596/=	0.341/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.353/TR/J	0.397/TR/J	0.508/= /J
SW6010B	Calcium (total)	mg/Kg	3520/=	3600/=	8560/=
SW6010B	Chromium (total)	mg/Kg	13.2/=	20.5/=	25.1/=
SW6010B	Cobalt (total)	mg/Kg	5.42/=	9.25/=	7.26/=
SW6010B	Copper (total)	mg/Kg	17.8/= /J	18.5/= /J	22.4/= /J
SW6010B	Iron (total)	mg/Kg	16600/=	32200/=	18700/=
SW6010B	Lead (total)	mg/Kg	11.9/=	11.2/=	53.1/=
SW6010B	Magnesium (total)	mg/Kg	2160/=	3810/=	3870/=
SW6010B	Manganese (total)	mg/Kg	275/=	471/=	355/=
SW7471A	Mercury (total)	mg/Kg	0.0162/TR/J	0.0199/TR/J	0.0232/TR/J
SW6010B	Nickel (total)	mg/Kg	14.5/=	23.5/=	18.4/=
SW6010B	Potassium (total)	mg/Kg	885/=	1420/=	862/=
SW6010B	Selenium (total)	mg/Kg	1.87/=	1.14 ND/U	1.16 ND/U
SW6010B	Silver (total)	mg/Kg	0.0929 ND/U	0.109/TR/J	0.0941 ND/U
SW6010B	Sodium (total)	mg/Kg	40.3/TR/J	61.7/TR/J	46.2/TR/J
SW6010B	Thallium (total)	mg/Kg	3.73/= /J	4.18/= /J	5.02/= /J
SW6010B	Vanadium (total)	mg/Kg	19.8/=	31.8/=	21.0/=

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SW6010B	Zinc (total)	mg/Kg	60.1/= /J	77.0/= /J	162/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	18.1 ND/U	8.87 ND/U	4790 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	75.8 ND/U	37.2 ND/U	180000 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	40.9 ND/U	20.0 ND/U	21100 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	39.1 ND/U	19.2 ND/U	10400 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	40.0 ND/U	19.6 ND/U	35900 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	34.7 ND/U	17.0 ND/U	16000/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	90.3/TR/J	23.7/TR/J	31400/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	50.5 ND/U	51.9 ND/U	52.0 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	50.2 ND/U	51.5 ND/U	51.6 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	34.2 ND/U	35.2 ND/U	35.2 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	37.3 ND/U	38.3 ND/U	38.4 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	299 ND/U	307 ND/U	307 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	522 ND/U	536 ND/U	537 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	126 ND/U	129 ND/U	129 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	152 ND/U	156 ND/U	156 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	405 ND/U	416 ND/U	417 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	118 ND/U	121 ND/U	121 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	159 ND/U	164 ND/U	164 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	37.3 ND/U	38.3 ND/U	38.4 ND/U
SW8270C	2-Chlorophenol	ug/Kg	116 ND/U	119 ND/U	119 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	29.3 ND/U	30.1 ND/U	30.2 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	239 ND/U	246 ND/U	246 ND/U
SW8270C	2-Nitroaniline	ug/Kg	208 ND/U	213 ND/U	214 ND/U
SW8270C	2-Nitrophenol	ug/Kg	307 ND/U	315 ND/U	315 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	693 ND/UJ	711 ND/UJ	713 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	226 ND/U	232 ND/U	232 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	205 ND/U	211 ND/U	211 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	155 ND/U	159 ND/U	159 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	420 ND/U	431 ND/U	432 ND/U
SW8270C	4-Chloroaniline	ug/Kg	194 ND/UJ	199 ND/UJ	200 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	289 ND/U	296 ND/U	297 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	93.6 ND/U	96.2 ND/U	96.3 ND/U
SW8270C	4-Nitroaniline	ug/Kg	226 ND/UJ	232 ND/UJ	232 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	152 ND/U	156 ND/U	156 ND/U
SW8270C	Acenaphthene	ug/Kg	12.9 ND/U	13.3 ND/U	13.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	41.0 ND/U	42.1 ND/U	42.2 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	29.9 ND/U	30.7 ND/U	30.7 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	95.9/TR/J
SW8270C	Benzo(a)anthracene	ug/Kg	21.6 ND/U	22.1 ND/U	80.3/TR/J
SW8270C	Benzo(a)pyrene	ug/Kg	29.2 ND/U	30.0 ND/U	72.6/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	27.8 ND/U	28.6 ND/U	86.7/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	26.5 ND/U	27.2 ND/U	80.1/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	31.6 ND/U	32.4 ND/U	58.6/TR/J
SW8270C	Benzoic acid	ug/Kg	465 ND/U	477 ND/U	478 ND/U
SW8270C	Benzyl alcohol	ug/Kg	528 ND/U	542 ND/U	543 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	145 ND/U	385/=	149 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	48.7 ND/U	50.0 ND/U	50.1 ND/U
SW8270C	Chrysene	ug/Kg	17.1 ND/U	17.5 ND/U	96.6/TR/J
SW8270C	Di-n-butylphthalate	ug/Kg	454 ND/U	466 ND/U	467 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	91.0 ND/U	93.4 ND/U	93.6 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.2 ND/U	22.8 ND/U	22.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	273 ND/U	280 ND/U	281 ND/U
SW8270C	Diethylphthalate	ug/Kg	408 ND/U	419 ND/U	419 ND/U
SW8270C	Dimethylphthalate	ug/Kg	232 ND/U	239 ND/U	239 ND/U
SW8270C	Fluoranthene	ug/Kg	18.5 ND/U	19.0 ND/U	162/TR/J
SW8270C	Fluorene	ug/Kg	10.9 ND/U	11.2 ND/U	11.2 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	92.5 ND/U	95.0 ND/U	95.2 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.2 ND/U	31.0 ND/U	31.1 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	148 ND/UJ	152 ND/UJ	152 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	57.8 ND/U	59.4 ND/U	59.5 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	27.8 ND/U	28.6 ND/U	138/TR/J
SW8270C	Isophorone	ug/Kg	21.6 ND/U	22.1 ND/U	22.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	97.0 ND/U	99.6 ND/U	99.8 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	56.1 ND/U	57.6 ND/U	57.8 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	95.7 ND/U	98.2 ND/U	98.4 ND/U
SW8270C	Naphthalene	ug/Kg	10.6 ND/U	10.9 ND/U	10.9 ND/U
SW8270C	Nitrobenzene	ug/Kg	60.6 ND/U	62.3 ND/U	62.4 ND/U
SW8270C	Pentachlorophenol	ug/Kg	236 ND/U	242 ND/U	243 ND/U
SW8270C	Phenanthrene	ug/Kg	20.8 ND/U	21.3 ND/U	21.4 ND/U
SW8270C	Phenol	ug/Kg	124 ND/U	127 ND/U	127 ND/U
SW8270C	Pyrene	ug/Kg	16.1 ND/U	16.5 ND/U	127/TR/J
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	37.7 ND/U	38.7 ND/U	38.8 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	105 ND/U	108 ND/U	108 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-19-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-19-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-20-A-(0.5-1.5) 10/29/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	119 ND/U	122 ND/U	122 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	371 ND/U	380 ND/U	381 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.72 ND/U	1.57 ND/U	1.40 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.737 ND/U	0.676 ND/U	0.603 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.85 ND/U	1.70 ND/U	1.52 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.914 ND/U	0.839 ND/U	0.748 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	1.00 ND/U	0.919 ND/U	0.820 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.07 ND/U	1.90 ND/U	1.70 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.10 ND/U	1.01 ND/U	0.902 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.39 ND/U	1.28 ND/U	1.14 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.99 ND/U	1.82 ND/U	1.63 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.769 ND/U	0.705 ND/U	0.629 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.22 ND/U	1.12 ND/U	0.999 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.889 ND/U	0.815 ND/U	0.727 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.385 ND/U	0.353 ND/U	0.315 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.35 ND/U	1.23 ND/U	1.10 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.23 ND/U	1.13 ND/U	1.01 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.41 ND/U	1.29 ND/U	9.06/TR/J
SW8260B	2-Hexanone	ug/Kg	1.11 ND/U	1.02 ND/U	0.909 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.22 ND/U	1.12 ND/U	0.997 ND/U
SW8260B	Acetone	ug/Kg	2.06 ND/U	1.89 ND/U	160/= /B
SW8260B	Benzene	ug/Kg	1.08 ND/U	0.990 ND/U	0.884 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.23 ND/U	1.12 ND/U	1.00 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.13 ND/U	1.04 ND/U	0.925 ND/U
SW8260B	Bromoform	ug/Kg	1.25 ND/U	1.14 ND/U	1.02 ND/U
SW8260B	Bromomethane	ug/Kg	1.78 ND/U	1.63 ND/U	1.45 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.76 ND/U	1.62 ND/U	5.13/=
SW8260B	Carbon tetrachloride	ug/Kg	1.57 ND/U	1.44 ND/U	1.28 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.23 ND/U	1.13 ND/U	1.01 ND/U
SW8260B	Chloroethane	ug/Kg	1.95 ND/U	1.79 ND/U	1.60 ND/U
SW8260B	Chloroform	ug/Kg	0.412 ND/U	0.378 ND/U	0.337 ND/U
SW8260B	Chloromethane	ug/Kg	1.78 ND/U	1.63 ND/U	1.45 ND/U
SW8260B	Cyclohexane	ug/Kg	2.04 ND/U	1.87 ND/U	2.06/TR/J
SW8260B	Dibromochloromethane	ug/Kg	1.46 ND/U	1.34 ND/U	1.19 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.20 ND/U	2.01 ND/U	1.80 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.822 ND/U	0.754 ND/U	0.673 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.68 ND/U	1.54 ND/U	1.37 ND/U
SW8260B	Methyl Acetate	ug/Kg	4.31 ND/UJ	3.95 ND/UJ	3.53 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.950 ND/U	0.871 ND/U	2.15/TR/J

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SW8260B	Methylene Chloride	ug/Kg	1.21 ND/U	1.11 ND/U	0.994 ND/U
SW8260B	Styrene	ug/Kg	1.13 ND/U	1.03 ND/U	0.923 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.15 ND/U	1.06 ND/U	0.942 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.84 ND/U	1.69 ND/U	1.51 ND/U
SW8260B	Toluene	ug/Kg	0.969 ND/U	0.888 ND/U	0.793 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.62 ND/U	1.48 ND/U	1.32 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.542 ND/U	0.497 ND/U	0.443 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.76 ND/U	1.62 ND/U	1.44 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.38 ND/U	1.27 ND/U	1.13 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.08 ND/U	0.994 ND/U	0.887 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.23 ND/U	1.13 ND/U	1.01 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.58 ND/U	1.45 ND/U	1.29 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.930 ND/U	0.853 ND/U	0.762 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	15.7/=	19.8/=	11.0/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0308 ND/U	0.0308 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0298 ND/U	0.0298 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0413 ND/U	0.0413 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0684 ND/UJ	0.0684 ND/UJ	0.0691 ND/UJ
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0631 ND/U	0.0631 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0492 ND/U	0.0492 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.104 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.142 ND/U	0.143 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0615 ND/U	0.0615 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/UJ	0.103 ND/UJ	0.104 ND/UJ
SW8330	HMX	mg/Kg	0.0277 ND/U	0.0277 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0529 ND/U	0.0529 ND/U	0.0534 ND/U
SW8330	RDX	mg/Kg	0.0355 ND/U	0.0355 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.0979 ND/UJ	0.0979 ND/UJ	0.0989 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7830/=	8740/=	10100/=
SW6010B	Antimony (total)	mg/Kg	0.973/TR/J	0.701 ND/U	1.20/TR/J
SW6010B	Arsenic (total)	mg/Kg	7.08/= /J	4.94/= /J	11.2/= /J
SW6010B	Barium (total)	mg/Kg	50.8/=	48.0/=	59.9/=
SW6010B	Beryllium (total)	mg/Kg	0.324/TR/J	0.342/TR/J	0.458/=
SW6010B	Cadmium (total)	mg/Kg	0.540/= /J	0.375/TR/J	0.381/TR/J
SW6010B	Calcium (total)	mg/Kg	14500/=	55800/=	4790/=
SW6010B	Chromium (total)	mg/Kg	20.2/=	14.6/=	16.9/=
SW6010B	Cobalt (total)	mg/Kg	7.13/=	9.95/=	9.45/=
SW6010B	Copper (total)	mg/Kg	13.9/= /J	23.3/= /J	21.7/= /J
SW6010B	Iron (total)	mg/Kg	19400/=	21000/=	23500/=
SW6010B	Lead (total)	mg/Kg	15.6/=	12.0/=	12.0/=
SW6010B	Magnesium (total)	mg/Kg	5460/=	17800/=	3660/=
SW6010B	Manganese (total)	mg/Kg	316/=	451/=	386/=
SW7471A	Mercury (total)	mg/Kg	0.0131/TR/J	0.0182/TR/J	0.0236/TR/J
SW6010B	Nickel (total)	mg/Kg	18.2/=	24.9/=	25.9/=
SW6010B	Potassium (total)	mg/Kg	664/=	1620/=	1100/=
SW6010B	Selenium (total)	mg/Kg	1.23 ND/U	2.53 ND/U	1.04 ND/U
SW6010B	Silver (total)	mg/Kg	0.0998 ND/U	0.103 ND/U	0.0847 ND/U
SW6010B	Sodium (total)	mg/Kg	63.7/TR/J	145/TR/J	52.3/TR/J
SW6010B	Thallium (total)	mg/Kg	5.03/= /J	1.07 ND/U	4.15/= /J
SW6010B	Vanadium (total)	mg/Kg	23.8/=	20.6/=	25.9/=

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SW6010B	Zinc (total)	mg/Kg	153/= /J	52.7/= /J	60.9/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	47.3 ND/U	9.87 ND/U	8.77 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	198 ND/U	41.4 ND/U	36.8 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	107 ND/U	22.3 ND/U	19.8 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	102 ND/U	21.3 ND/U	19.0 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	105 ND/U	21.8 ND/U	19.4 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	165/TR/J	18.9 ND/U	32.7/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	331/TR/J	5.29 ND/U	65.6/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	52.9 ND/U	54.4 ND/U	48.6 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	52.6 ND/U	54.0 ND/U	48.3 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.9 ND/U	36.9 ND/U	32.9 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.1 ND/U	40.1 ND/U	35.9 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	313 ND/U	321 ND/U	287 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	547 ND/U	562 ND/U	502 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	132 ND/U	135 ND/U	121 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	159 ND/U	163 ND/U	146 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	425 ND/U	436 ND/U	390 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	124 ND/U	127 ND/U	113 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	167 ND/U	172 ND/U	153 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.1 ND/U	40.1 ND/U	35.9 ND/U
SW8270C	2-Chlorophenol	ug/Kg	121 ND/U	124 ND/U	111 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.7 ND/U	31.5 ND/U	62.3/TR/J
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	251 ND/U	257 ND/U	230 ND/U
SW8270C	2-Nitroaniline	ug/Kg	218 ND/U	224 ND/U	200 ND/U
SW8270C	2-Nitrophenol	ug/Kg	321 ND/U	330 ND/U	295 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	726 ND/UJ	745 ND/UJ	666 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	236 ND/U	243 ND/U	217 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	215 ND/U	221 ND/U	198 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	162 ND/U	167 ND/U	149 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	440 ND/U	452 ND/U	404 ND/U
SW8270C	4-Chloroaniline	ug/Kg	203 ND/UJ	209 ND/UJ	187 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	302 ND/U	311 ND/U	278 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	98.1 ND/U	101 ND/U	90.1 ND/U
SW8270C	4-Nitroaniline	ug/Kg	236 ND/UJ	243 ND/UJ	217 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	159 ND/U	163 ND/U	146 ND/U
SW8270C	Acenaphthene	ug/Kg	13.5 ND/U	13.9 ND/U	12.4 ND/U
SW8270C	Acenaphthylene	ug/Kg	42.9 ND/U	44.1 ND/U	60.3/TR/J
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.3 ND/U	32.1 ND/U	66.7/TR/J
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.6 ND/U	23.2 ND/U	127/TR/J
SW8270C	Benzo(a)pyrene	ug/Kg	30.6 ND/U	31.4 ND/U	106/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.2 ND/U	30.0 ND/U	110/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.8 ND/U	28.5 ND/U	141/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.1 ND/U	34.0 ND/U	77.6/TR/J
SW8270C	Benzoic acid	ug/Kg	487 ND/U	500 ND/U	447 ND/U
SW8270C	Benzyl alcohol	ug/Kg	553 ND/U	568 ND/U	508 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	152 ND/U	156 ND/U	139 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	51.0 ND/U	52.4 ND/U	46.9 ND/U
SW8270C	Chrysene	ug/Kg	17.9 ND/U	18.4 ND/U	123/TR/J
SW8270C	Di-n-butylphthalate	ug/Kg	475 ND/U	488 ND/U	436 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	95.3 ND/U	97.9 ND/U	87.5 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.3 ND/U	23.9 ND/U	62.6/TR/J
SW8270C	Dibenzofuran	ug/Kg	286 ND/U	294 ND/U	262 ND/U
SW8270C	Diethylphthalate	ug/Kg	427 ND/U	439 ND/U	392 ND/U
SW8270C	Dimethylphthalate	ug/Kg	243 ND/U	250 ND/U	224 ND/U
SW8270C	Fluoranthene	ug/Kg	19.4 ND/U	19.9 ND/U	198/TR/J
SW8270C	Fluorene	ug/Kg	11.4 ND/U	11.7 ND/U	10.5 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	96.9 ND/U	99.6 ND/U	89.0 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.6 ND/U	32.5 ND/U	29.0 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	155 ND/UJ	159 ND/UJ	143 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	60.6 ND/U	62.2 ND/U	55.6 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.2 ND/U	30.0 ND/U	175/TR/J
SW8270C	Isophorone	ug/Kg	22.6 ND/U	23.2 ND/U	20.7 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	102 ND/U	104 ND/U	93.3 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	58.8 ND/U	60.4 ND/U	54.0 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	100 ND/U	103 ND/U	92.0 ND/U
SW8270C	Naphthalene	ug/Kg	11.1 ND/U	11.4 ND/U	10.2 ND/U
SW8270C	Nitrobenzene	ug/Kg	63.5 ND/U	65.2 ND/U	58.3 ND/U
SW8270C	Pentachlorophenol	ug/Kg	247 ND/U	254 ND/U	227 ND/U
SW8270C	Phenanthrene	ug/Kg	21.8 ND/U	22.4 ND/U	90.7/TR/J
SW8270C	Phenol	ug/Kg	129 ND/U	133 ND/U	119 ND/U
SW8270C	Pyrene	ug/Kg	16.8 ND/U	17.3 ND/U	167/TR/J
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	39.5 ND/U	40.6 ND/U	36.3 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	110 ND/U	113 ND/U	101 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	125 ND/U	128 ND/U	114 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	388 ND/U	399 ND/U	356 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.37 ND/U	5.98 ND/U	1.36 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.590 ND/U	2.57 ND/U	0.582 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.48 ND/U	6.45 ND/U	1.46 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.733 ND/U	3.19 ND/U	0.723 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.803 ND/U	3.49 ND/U	0.792 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.66 ND/U	7.22 ND/U	1.64 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.883 ND/U	3.84 ND/U	0.871 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.12 ND/U	4.86 ND/U	1.10 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.59 ND/U	6.92 ND/U	1.57 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.616 ND/U	2.68 ND/U	0.608 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.978 ND/U	4.25 ND/U	0.965 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.712 ND/U	3.10 ND/U	0.702 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.308 ND/U	1.34 ND/U	0.304 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.08 ND/U	4.69 ND/U	1.06 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.985 ND/U	4.28 ND/U	0.971 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.13 ND/U	4.90 ND/U	5.92/TR/J
SW8260B	2-Hexanone	ug/Kg	0.890 ND/U	3.87 ND/U	0.878 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.976 ND/U	4.24 ND/U	0.963 ND/U
SW8260B	Acetone	ug/Kg	1.65 ND/U	7.18 ND/U	1.63 ND/U
SW8260B	Benzene	ug/Kg	3.10/TR/J	6.18/TR/J	2.45/TR/J
SW8260B	Bromochloromethane	ug/Kg	0.983 ND/U	4.27 ND/U	0.969 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.905 ND/U	3.94 ND/U	0.893 ND/U
SW8260B	Bromoform	ug/Kg	0.998 ND/U	4.34 ND/U	0.985 ND/U
SW8260B	Bromomethane	ug/Kg	1.42 ND/U	6.19 ND/U	1.40 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.41 ND/U	6.15 ND/U	17.1/=
SW8260B	Carbon tetrachloride	ug/Kg	1.26 ND/U	5.46 ND/U	1.24 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.989 ND/U	4.30 ND/U	0.975 ND/U
SW8260B	Chloroethane	ug/Kg	1.56 ND/U	6.79 ND/U	1.54 ND/U
SW8260B	Chloroform	ug/Kg	0.330 ND/U	1.44 ND/U	0.326 ND/U
SW8260B	Chloromethane	ug/Kg	1.42 ND/U	6.19 ND/U	1.40 ND/U
SW8260B	Cyclohexane	ug/Kg	5.55/=	24.5/=	9.04/=
SW8260B	Dibromochloromethane	ug/Kg	1.17 ND/U	5.07 ND/U	1.15 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.76 ND/U	7.65 ND/U	1.74 ND/U
SW8260B	Ethylbenzene	ug/Kg	2.00/TR/J	2.86 ND/U	1.80/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.34 ND/U	5.85 ND/U	1.33 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.45 ND/UJ	15.0 ND/UJ	3.40 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	6.36/=	20.6/TR/J	9.05/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-20-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-20-A-(8-10) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-21-A-(0.5-1.5) 10/29/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	0.973 ND/U	4.23 ND/U	0.960 ND/U
SW8260B	Styrene	ug/Kg	0.904 ND/U	3.93 ND/U	0.891 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.922 ND/U	4.01 ND/U	0.910 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.47 ND/U	6.41 ND/U	1.45 ND/U
SW8260B	Toluene	ug/Kg	6.80/= /B	8.40/TR/JB	7.55/= /B
SW8260B	Trichloroethene (TCE)	ug/Kg	1.29 ND/U	5.63 ND/U	1.28 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.434 ND/U	1.89 ND/U	0.428 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.41 ND/U	6.15 ND/U	1.39 ND/U
SW8260B	Xylenes, Total	ug/Kg	5.27/=	4.82 ND/U	6.36/=
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.868 ND/U	3.78 ND/U	0.856 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.989 ND/U	4.30 ND/U	0.975 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.27 ND/U	5.50 ND/U	1.25 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.745 ND/U	3.24 ND/U	0.735 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-21-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(3-5) 10/29/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	16.8/=	12.4/=	21.1/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0308 ND/U	0.0311 ND/U	0.0302 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0298 ND/U	0.0301 ND/U	0.0292 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0413 ND/U	0.0417 ND/U	0.0405 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0684 ND/UJ	0.0691 ND/UJ	0.0671 ND/UJ
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0631 ND/U	0.0637 ND/U	0.0618 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0492 ND/U	0.0497 ND/U	0.0483 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.105 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.143 ND/U	0.139 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0615 ND/U	0.0621 ND/U	0.0603 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/UJ	0.104 ND/UJ	0.101 ND/UJ
SW8330	HMX	mg/Kg	0.0277 ND/U	0.0280 ND/U	0.0272 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0529 ND/U	0.0534 ND/U	0.0518 ND/U
SW8330	RDX	mg/Kg	0.0355 ND/U	0.0359 ND/U	0.0349 ND/U
SW8330	Tetryl	mg/Kg	0.0979 ND/UJ	0.0989 ND/UJ	0.0960 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9230/=	10100/=	12300/=
SW6010B	Antimony (total)	mg/Kg	1.36/TR/J	1.50/TR/J	0.776 ND/U
SW6010B	Arsenic (total)	mg/Kg	11.8/= /J	9.35/= /J	0.641 ND/U
SW6010B	Barium (total)	mg/Kg	111/=	61.0/=	72.5/=
SW6010B	Beryllium (total)	mg/Kg	0.528/=	0.415/TR/J	0.464/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.584/= /J	0.485/= /J	0.317/TR/J
SW6010B	Calcium (total)	mg/Kg	5700/=	9500/=	44800/=
SW6010B	Chromium (total)	mg/Kg	14.2/=	17.9/=	19.9/=
SW6010B	Cobalt (total)	mg/Kg	16.3/=	7.81/=	7.60/=
SW6010B	Copper (total)	mg/Kg	18.3/= /J	19.3/= /J	20.3/= /J
SW6010B	Iron (total)	mg/Kg	26800/=	25300/=	22900/=
SW6010B	Lead (total)	mg/Kg	13.0/=	62.3/=	9.95/=
SW6010B	Magnesium (total)	mg/Kg	3190/=	2960/=	13000/=
SW6010B	Manganese (total)	mg/Kg	1270/=	451/=	347/=
SW7471A	Mercury (total)	mg/Kg	0.0052 ND/U	0.151/=	0.0068 ND/U
SW6010B	Nickel (total)	mg/Kg	21.9/=	21.2/=	24.6/=
SW6010B	Potassium (total)	mg/Kg	799/=	992/=	1720/= /J
SW6010B	Selenium (total)	mg/Kg	1.12/TR/J	1.20 ND/U	2.81 ND/U
SW6010B	Silver (total)	mg/Kg	0.0820 ND/U	0.0977 ND/U	0.114 ND/U
SW6010B	Sodium (total)	mg/Kg	46.0/TR/J	59.8/TR/J	172/=
SW6010B	Thallium (total)	mg/Kg	6.11/= /J	5.24/= /J	2.05/TR/J
SW6010B	Vanadium (total)	mg/Kg	26.9/=	29.6/=	24.4/=

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SW6010B	Zinc (total)	mg/Kg	45.1/= /J	57.8/= /J	60.0/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.40 ND/U	46.3 ND/U	10.0 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	39.4 ND/U	194 ND/U	41.9 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	21.3 ND/U	105 ND/U	22.6 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	20.3 ND/U	100 ND/U	21.6 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	20.8 ND/U	102 ND/U	22.1 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.1 ND/U	220/TR/J	19.2 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.04 ND/U	477/TR/J	13.4/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	52.5 ND/U	50.5 ND/U	56.1 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	52.1 ND/U	50.1 ND/U	55.7 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.6 ND/U	34.2 ND/U	38.0 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.7 ND/U	37.2 ND/U	41.4 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	310 ND/U	298 ND/U	331 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	542 ND/U	521 ND/U	579 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	131 ND/U	126 ND/U	140 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	157 ND/U	151 ND/U	168 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	421 ND/U	405 ND/U	450 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	122 ND/U	118 ND/U	131 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	166 ND/U	159 ND/U	177 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.7 ND/U	37.2 ND/U	41.4 ND/U
SW8270C	2-Chlorophenol	ug/Kg	120 ND/U	116 ND/U	128 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.4 ND/U	29.3 ND/U	32.5 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	248 ND/U	239 ND/U	265 ND/U
SW8270C	2-Nitroaniline	ug/Kg	216 ND/U	207 ND/U	230 ND/U
SW8270C	2-Nitrophenol	ug/Kg	318 ND/U	306 ND/U	340 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	719 ND/UJ	692 ND/UJ	769 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	234 ND/U	225 ND/U	250 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	213 ND/U	205 ND/U	228 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	161 ND/U	155 ND/U	172 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	436 ND/U	419 ND/U	466 ND/U
SW8270C	4-Chloroaniline	ug/Kg	202 ND/UJ	194 ND/UJ	215 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	300 ND/U	288 ND/U	320 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	97.2 ND/U	93.5 ND/U	104 ND/U
SW8270C	4-Nitroaniline	ug/Kg	234 ND/UJ	225 ND/UJ	250 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	157 ND/U	151 ND/U	168 ND/U
SW8270C	Acenaphthene	ug/Kg	13.4 ND/U	12.9 ND/U	14.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	42.6 ND/U	40.9 ND/U	45.5 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.0 ND/U	29.8 ND/U	33.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.4 ND/U	21.5 ND/U	23.9 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	30.3 ND/U	29.2 ND/U	32.4 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.9 ND/U	27.8 ND/U	30.9 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.5 ND/U	26.5 ND/U	29.4 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.8 ND/U	31.5 ND/U	35.0 ND/U
SW8270C	Benzoic acid	ug/Kg	483 ND/U	464 ND/U	516 ND/U
SW8270C	Benzyl alcohol	ug/Kg	548 ND/U	527 ND/U	585 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	150 ND/U	145 ND/U	161 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	50.6 ND/U	48.7 ND/U	54.1 ND/U
SW8270C	Chrysene	ug/Kg	17.7 ND/U	17.0 ND/U	18.9 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	471 ND/U	615/= /J	503 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	94.4 ND/U	90.8 ND/U	101 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.1 ND/U	22.2 ND/U	24.7 ND/U
SW8270C	Dibenzofuran	ug/Kg	283 ND/U	272 ND/U	303 ND/U
SW8270C	Diethylphthalate	ug/Kg	423 ND/U	407 ND/U	452 ND/U
SW8270C	Dimethylphthalate	ug/Kg	241 ND/U	232 ND/U	258 ND/U
SW8270C	Fluoranthene	ug/Kg	19.2 ND/U	18.5 ND/U	20.6 ND/U
SW8270C	Fluorene	ug/Kg	11.3 ND/U	10.9 ND/U	12.1 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	96.1 ND/U	92.4 ND/U	103 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.4 ND/U	30.2 ND/U	33.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	154 ND/UJ	148 ND/UJ	164 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	60.0 ND/U	57.8 ND/U	64.1 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	28.9 ND/U	27.8 ND/U	30.9 ND/U
SW8270C	Isophorone	ug/Kg	22.4 ND/U	21.5 ND/U	23.9 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	101 ND/U	96.9 ND/U	108 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	58.3 ND/U	56.1 ND/U	62.3 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	99.3 ND/U	95.5 ND/U	106 ND/U
SW8270C	Naphthalene	ug/Kg	11.0 ND/U	10.6 ND/U	11.8 ND/U
SW8270C	Nitrobenzene	ug/Kg	63.0 ND/U	60.6 ND/U	67.3 ND/U
SW8270C	Pentachlorophenol	ug/Kg	245 ND/U	235 ND/U	262 ND/U
SW8270C	Phenanthrene	ug/Kg	21.6 ND/U	20.7 ND/U	23.0 ND/U
SW8270C	Phenol	ug/Kg	128 ND/U	123 ND/U	137 ND/U
SW8270C	Pyrene	ug/Kg	16.7 ND/U	16.0 ND/U	17.8 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	39.2 ND/U	37.7 ND/U	41.9 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	109 ND/U	105 ND/U	117 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-21-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(3-5) 10/29/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	124 ND/U	119 ND/U	132 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	385 ND/U	370 ND/U	411 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.40 ND/U	1.42 ND/U	1.51 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.601 ND/U	0.608 ND/U	0.649 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.51 ND/U	1.53 ND/U	1.63 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.746 ND/U	0.755 ND/U	0.805 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.817 ND/U	0.828 ND/U	0.883 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.69 ND/U	1.71 ND/U	1.83 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.899 ND/U	0.910 ND/U	0.971 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.14 ND/U	1.15 ND/U	1.23 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.62 ND/U	1.64 ND/U	1.75 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.627 ND/U	0.635 ND/U	0.677 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.996 ND/U	1.01 ND/U	1.08 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.725 ND/U	0.734 ND/U	0.783 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.314 ND/U	0.318 ND/U	0.339 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.10 ND/U	1.11 ND/U	1.18 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.00 ND/U	1.02 ND/U	1.08 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.15 ND/U	4.39/TR/J	1.24 ND/U
SW8260B	2-Hexanone	ug/Kg	0.906 ND/U	0.917 ND/U	0.978 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.994 ND/U	1.01 ND/U	1.07 ND/U
SW8260B	Acetone	ug/Kg	1.68 ND/U	1.70 ND/U	1.82 ND/U
SW8260B	Benzene	ug/Kg	4.44/TR/J	0.892 ND/U	6.46/=
SW8260B	Bromochloromethane	ug/Kg	1.00 ND/U	1.01 ND/U	1.08 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.922 ND/U	0.934 ND/U	0.996 ND/U
SW8260B	Bromoform	ug/Kg	1.02 ND/U	1.03 ND/U	1.10 ND/U
SW8260B	Bromomethane	ug/Kg	1.45 ND/U	1.47 ND/U	1.57 ND/U
SW8260B	Carbon Disulfide	ug/Kg	11.6/=	1.46 ND/U	1.55 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.28 ND/U	1.29 ND/U	1.38 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.01 ND/U	1.02 ND/U	1.09 ND/U
SW8260B	Chloroethane	ug/Kg	1.59 ND/U	1.61 ND/U	1.72 ND/U
SW8260B	Chloroform	ug/Kg	0.336 ND/U	0.340 ND/U	0.363 ND/U
SW8260B	Chloromethane	ug/Kg	1.45 ND/U	1.47 ND/U	1.57 ND/U
SW8260B	Cyclohexane	ug/Kg	8.52/=	1.68 ND/U	11.0/=
SW8260B	Dibromochloromethane	ug/Kg	1.19 ND/U	1.20 ND/U	1.28 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.79 ND/U	1.81 ND/U	1.93 ND/U
SW8260B	Ethylbenzene	ug/Kg	3.04/TR/J	0.679 ND/U	3.26/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.37 ND/U	1.39 ND/U	1.48 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	3.51 ND/UJ	3.56 ND/UJ	3.79 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	9.33/=	0.785 ND/U	11.5/=

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-21-A-(3-5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-22-A-(3-5) 10/29/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	0.991 ND/U	1.00 ND/U	1.07 ND/U
SW8260B	Styrene	ug/Kg	0.920 ND/U	0.932 ND/U	0.994 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.939 ND/U	0.951 ND/U	1.01 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.50 ND/U	1.52 ND/U	1.62 ND/U
SW8260B	Toluene	ug/Kg	10.8/= /B	0.800 ND/U	15.5/= /B
SW8260B	Trichloroethene (TCE)	ug/Kg	1.32 ND/U	1.34 ND/U	1.42 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.442 ND/U	0.447 ND/U	0.477 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.44 ND/U	1.46 ND/U	1.55 ND/U
SW8260B	Xylenes, Total	ug/Kg	7.57/=	1.14 ND/U	9.91/=
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.884 ND/U	0.895 ND/U	0.954 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.01 ND/U	1.02 ND/U	1.09 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.29 ND/U	1.30 ND/U	1.39 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.759 ND/U	0.769 ND/U	0.820 ND/U

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-23-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(8-10) 11/1/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	14.7/=	20.2/=	18.9/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0311 ND/U	0.0311 ND/U	0.0303 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0301 ND/U	0.0301 ND/U	0.0294 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0417 ND/U	0.0417 ND/U	0.0407 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0691 ND/U	0.0691 ND/U	0.0674 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0637 ND/U	0.0637 ND/U	0.0621 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0497 ND/U	0.0497 ND/U	0.0485 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.105 ND/U	0.105 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.143 ND/U	0.143 ND/U	0.140 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0621 ND/U	0.0621 ND/U	0.0606 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.104 ND/UJ	0.104 ND/UJ	0.101 ND/UJ
SW8330	HMX	mg/Kg	0.0280 ND/U	0.0280 ND/U	0.0273 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0534 ND/U	0.0534 ND/U	0.0521 ND/U
SW8330	RDX	mg/Kg	0.0359 ND/U	0.0359 ND/U	0.0350 ND/U
SW8330	Tetryl	mg/Kg	0.0989 ND/UJ	0.0989 ND/UJ	0.0965 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7280/=	10400/=	9210/=
SW6010B	Antimony (total)	mg/Kg	1.46/TR/J	1.40/TR/J	0.813 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	6.34/=	12.2/=	4.68/=
SW6010B	Barium (total)	mg/Kg	52.9/=	75.6/=	66.6/=
SW6010B	Beryllium (total)	mg/Kg	0.308/TR/J	0.560/=	0.414/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.621/=	0.782/=	0.381/TR/J
SW6010B	Calcium (total)	mg/Kg	5700/=	7260/=	58900/=
SW6010B	Chromium (total)	mg/Kg	13.6/=	17.3/=	15.4/=
SW6010B	Cobalt (total)	mg/Kg	6.19/=	8.68/=	14.5/=
SW6010B	Copper (total)	mg/Kg	14.7/=	17.6/=	23.2/=
SW6010B	Iron (total)	mg/Kg	17400/=	41800/=	25900/=
SW6010B	Lead (total)	mg/Kg	94.0/=	11.2/=	12.7/=
SW6010B	Magnesium (total)	mg/Kg	2600/=	4200/=	16700/=
SW6010B	Manganese (total)	mg/Kg	267/=	369/=	513/=
SW7471A	Mercury (total)	mg/Kg	0.293/=	0.0097/TR/J	0.0283/TR/J
SW6010B	Nickel (total)	mg/Kg	16.2/=	29.8/=	30.6/=
SW6010B	Potassium (total)	mg/Kg	894/=	1080/=	1760/=
SW6010B	Selenium (total)	mg/Kg	1.37 ND/U	1.13 ND/U	2.94 ND/U
SW6010B	Silver (total)	mg/Kg	0.112 ND/U	0.0917 ND/U	0.275/TR/J
SW6010B	Sodium (total)	mg/Kg	36.7/TR/J	53.4/TR/J	134/TR/J
SW6010B	Thallium (total)	mg/Kg	4.61/=	4.30/=	1.27/TR/J
SW6010B	Vanadium (total)	mg/Kg	19.9/=	29.0/=	21.6/=

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-23-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(8-10) 11/1/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	118/=	202/=	57.5/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	915 ND/U	10.0 ND/U	9.95 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	3840 ND/U	42.0 ND/U	41.7 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	2070 ND/U	22.6 ND/U	22.5 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	1980 ND/U	21.7 ND/U	21.5 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	2020 ND/U	22.1 ND/U	22.0 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	2700/TR/J	19.2 ND/U	19.1 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	6110/TR/J	27.5/TR/J	5.33 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	52.3 ND/U	56.0 ND/U	54.0 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.9 ND/U	55.6 ND/U	53.7 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.4 ND/U	37.9 ND/U	36.6 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.6 ND/U	41.3 ND/U	39.9 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	309 ND/U	331 ND/U	319 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	540 ND/U	578 ND/U	558 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	130 ND/U	139 ND/U	134 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	157 ND/U	168 ND/U	162 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	419 ND/U	449 ND/U	433 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	122 ND/U	131 ND/U	126 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	165 ND/U	177 ND/U	170 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.6 ND/U	41.3 ND/U	39.9 ND/U
SW8270C	2-Chlorophenol	ug/Kg	120 ND/U	128 ND/U	124 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	82.3/TR/J	32.5 ND/U	31.3 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	247 ND/U	265 ND/U	256 ND/U
SW8270C	2-Nitroaniline	ug/Kg	215 ND/U	230 ND/U	222 ND/U
SW8270C	2-Nitrophenol	ug/Kg	317 ND/U	340 ND/U	328 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	234 ND/UJ	250 ND/UJ	241 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	213 ND/U	228 ND/U	220 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	160 ND/U	172 ND/U	166 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	435 ND/U	465 ND/U	449 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	299 ND/U	320 ND/U	309 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	96.9 ND/U	104 ND/U	100 ND/U
SW8270C	4-Nitroaniline	ug/Kg	234 ND/UJ	250 ND/UJ	241 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	157 ND/U	168 ND/U	162 ND/U
SW8270C	Acenaphthene	ug/Kg	13.4 ND/U	14.3 ND/U	13.8 ND/U
SW8270C	Acenaphthylene	ug/Kg	86.3/TR/J	45.4 ND/U	43.8 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-23-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(8-10) 11/1/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	133/TR/J	33.1 ND/U	31.9 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	304/TR/J	23.9 ND/U	23.1 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	283/TR/J	32.3 ND/U	31.2 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	288/TR/J	30.8 ND/U	29.8 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	365/TR/J	29.4 ND/U	28.3 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	264/TR/J	35.0 ND/U	33.7 ND/U
SW8270C	Benzoic acid	ug/Kg	481 ND/U	515 ND/U	497 ND/U
SW8270C	Benzyl alcohol	ug/Kg	546 ND/U	585 ND/U	564 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	150 ND/U	160 ND/U	155 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	89.3/TR/J	54.0 ND/U	52.1 ND/U
SW8270C	Chrysene	ug/Kg	377/TR/J	18.9 ND/U	18.2 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	737/=	502 ND/U	485 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	94.1 ND/U	101 ND/U	97.3 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	170/TR/J	24.6 ND/U	23.8 ND/U
SW8270C	Dibenzofuran	ug/Kg	282 ND/U	302 ND/U	292 ND/U
SW8270C	Diethylphthalate	ug/Kg	422 ND/U	452 ND/U	436 ND/U
SW8270C	Dimethylphthalate	ug/Kg	241 ND/U	257 ND/U	249 ND/U
SW8270C	Fluoranthene	ug/Kg	593/=	20.5 ND/U	19.8 ND/U
SW8270C	Fluorene	ug/Kg	11.2 ND/U	12.0 ND/U	11.6 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	95.7 ND/U	102 ND/U	98.9 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.3 ND/U	33.5 ND/U	32.3 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	153 ND/UJ	164 ND/UJ	158 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.8 ND/U	64.1 ND/U	61.8 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	421/=	30.8 ND/U	29.8 ND/U
SW8270C	Isophorone	ug/Kg	22.3 ND/U	23.9 ND/U	23.1 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	100 ND/U	107 ND/U	104 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	58.1 ND/U	62.2 ND/U	60.0 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	99.0 ND/U	106 ND/U	102 ND/U
SW8270C	Naphthalene	ug/Kg	11.0 ND/U	11.8 ND/U	11.4 ND/U
SW8270C	Nitrobenzene	ug/Kg	62.7 ND/U	67.2 ND/U	64.8 ND/U
SW8270C	Pentachlorophenol	ug/Kg	244 ND/U	261 ND/U	252 ND/U
SW8270C	Phenanthrene	ug/Kg	365/TR/J	23.0 ND/U	22.2 ND/U
SW8270C	Phenol	ug/Kg	128 ND/U	137 ND/U	132 ND/U
SW8270C	Pyrene	ug/Kg	452/=	17.8 ND/U	17.2 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	39.0 ND/U	41.8 ND/U	40.3 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	109 ND/U	117 ND/U	113 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-23-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(8-10) 11/1/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	123 ND/U	132 ND/U	127 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	383 ND/U	410 ND/U	396 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.69 ND/U	1.41 ND/U	1.52 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.728 ND/U	0.604 ND/U	0.655 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.83 ND/U	1.52 ND/U	1.65 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.903 ND/U	0.750 ND/U	0.813 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.990 ND/U	0.822 ND/U	0.891 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.05 ND/U	1.70 ND/U	1.84 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.09 ND/U	0.904 ND/U	0.980 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.38 ND/U	1.14 ND/U	1.24 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.96 ND/U	1.63 ND/U	1.77 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.759 ND/U	0.631 ND/U	0.683 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.21 ND/U	1.00 ND/U	1.08 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.877 ND/U	0.729 ND/U	0.790 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.380 ND/U	0.316 ND/U	0.342 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.33 ND/U	1.10 ND/U	1.20 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.21 ND/U	1.01 ND/U	1.09 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	5.93/TR/J	1.15 ND/U	1.25 ND/U
SW8260B	2-Hexanone	ug/Kg	1.10 ND/U	0.911 ND/U	0.987 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.20 ND/U	0.999 ND/U	1.08 ND/UJ
SW8260B	Acetone	ug/Kg	2.04 ND/U	1.69 ND/U	1.83 ND/U
SW8260B	Benzene	ug/Kg	1.07 ND/U	0.886 ND/U	2.91/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.21 ND/U	1.01 ND/U	1.09 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.12 ND/U	0.927 ND/U	1.00 ND/U
SW8260B	Bromoform	ug/Kg	1.23 ND/U	1.02 ND/U	1.11 ND/U
SW8260B	Bromomethane	ug/Kg	1.75 ND/U	1.46 ND/U	1.58 ND/U
SW8260B	Carbon Disulfide	ug/Kg	7.54/=	1.45 ND/U	1.57 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.55 ND/U	1.29 ND/U	1.39 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.22 ND/U	1.01 ND/U	1.10 ND/U
SW8260B	Chloroethane	ug/Kg	1.93 ND/U	1.60 ND/U	1.73 ND/U
SW8260B	Chloroform	ug/Kg	0.407 ND/U	0.338 ND/U	0.366 ND/U
SW8260B	Chloromethane	ug/Kg	1.75 ND/U	1.46 ND/U	1.58 ND/U
SW8260B	Cyclohexane	ug/Kg	3.60/TR/J	1.67 ND/U	6.98/=
SW8260B	Dibromochloromethane	ug/Kg	1.44 ND/U	1.19 ND/U	1.29 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.17 ND/U	1.80 ND/U	1.95 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.812 ND/U	0.674 ND/U	0.731 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.66 ND/U	1.38 ND/U	1.49 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	4.25 ND/UJ	3.53 ND/UJ	3.83 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	3.97/TR/J	0.779 ND/U	6.66/=

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-23-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-23-A(8-10) 11/1/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.20 ND/U	0.996 ND/U	1.08 ND/U
SW8260B	Styrene	ug/Kg	1.11 ND/U	0.925 ND/U	1.00 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.14 ND/U	0.944 ND/U	1.02 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.82 ND/U	1.51 ND/U	1.63 ND/U
SW8260B	Toluene	ug/Kg	0.957 ND/U	0.795 ND/U	4.66/TR/JB
SW8260B	Trichloroethene (TCE)	ug/Kg	1.60 ND/U	1.33 ND/U	1.44 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.535 ND/U	0.444 ND/U	0.482 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.74 ND/U	1.45 ND/U	1.57 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.94/TR/J	1.13 ND/U	2.42/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.07 ND/U	0.889 ND/U	0.963 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.22 ND/U	1.01 ND/U	1.10 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.56 ND/U	1.30 ND/U	1.40 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.919 ND/U	0.763 ND/U	0.827 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-24-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-24-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-25-A(0.5-1.5) 11/1/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	15.6/=	17.1/=	10.8/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0291 ND/U	0.0293 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0281 ND/U	0.0284 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0390 ND/U	0.0393 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0646 ND/U	0.0652 ND/U	0.0691 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0595 ND/U	0.0601 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0464 ND/U	0.0469 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.0981 ND/U	0.0991 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.134 ND/U	0.135 ND/U	0.157/TR/J
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0580 ND/U	0.0586 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.0972 ND/U	0.0981 ND/U	0.104 ND/U
SW8330	HMX	mg/Kg	0.0262 ND/U	0.0264 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0499 ND/U	0.0504 ND/U	0.158/TR/J
SW8330	RDX	mg/Kg	0.0336 ND/U	0.0339 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.0924 ND/UJ	0.0933 ND/UJ	0.0989 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7510/=	6480/=	6520/=
SW6010B	Antimony (total)	mg/Kg	0.717/TR/J	0.637 ND/UJ	2.07/= /J
SW6010B	Arsenic (total)	mg/Kg	8.49/=	5.56/=	8.14/=
SW6010B	Barium (total)	mg/Kg	56.8/=	67.4/=	60.7/=
SW6010B	Beryllium (total)	mg/Kg	0.292/TR/J	0.217/TR/J	0.324/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.437/=	0.395/TR/J	0.648/=
SW6010B	Calcium (total)	mg/Kg	24600/=	43400/=	7400/=
SW6010B	Chromium (total)	mg/Kg	13.2/=	11.6/=	11.9/=
SW6010B	Cobalt (total)	mg/Kg	7.68/=	6.13/=	7.08/=
SW6010B	Copper (total)	mg/Kg	22.4/=	14.0/=	22.7/=
SW6010B	Iron (total)	mg/Kg	19700/=	18900/=	17800/=
SW6010B	Lead (total)	mg/Kg	49.6/=	40.6/=	89.4/=
SW6010B	Magnesium (total)	mg/Kg	8120/=	7300/=	2460/=
SW6010B	Manganese (total)	mg/Kg	408/=	386/=	305/=
SW7471A	Mercury (total)	mg/Kg	0.125/=	0.274/=	0.209/=
SW6010B	Nickel (total)	mg/Kg	20.3/=	15.7/=	17.4/=
SW6010B	Potassium (total)	mg/Kg	994/=	1110/=	707/=
SW6010B	Selenium (total)	mg/Kg	2.01 ND/U	2.30 ND/U	1.16 ND/U
SW6010B	Silver (total)	mg/Kg	0.0933/TR/J	0.146/TR/J	0.0951/TR/J
SW6010B	Sodium (total)	mg/Kg	60.0/TR/J	83.6/TR/J	42.9/TR/J
SW6010B	Thallium (total)	mg/Kg	3.50/=	1.40/TR/J	5.01/=
SW6010B	Vanadium (total)	mg/Kg	21.4/=	20.5/=	20.8/=

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SW6010B	Zinc (total)	mg/Kg	98.3/=	68.8/=	146/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	48.5 ND/U	492 ND/U	439 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	1820 ND/U	2060 ND/U	1840 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	213 ND/U	1110 ND/U	993 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	105 ND/U	1070 ND/U	950 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	364 ND/U	1090 ND/U	972 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	511/TR/J	945 ND/U	2860/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	1030/=	2560/TR/J	2940/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	50.2 ND/U	53.4 ND/U	48.7 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	49.9 ND/U	53.0 ND/U	48.4 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	34.0 ND/U	36.2 ND/U	33.0 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	37.0 ND/U	39.4 ND/U	36.0 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	297 ND/U	316 ND/U	288 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	519 ND/U	552 ND/U	504 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	125 ND/U	133 ND/U	121 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	151 ND/U	160 ND/U	146 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	403 ND/U	428 ND/U	391 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	117 ND/U	125 ND/U	114 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	158 ND/U	168 ND/U	154 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	37.0 ND/U	39.4 ND/U	36.0 ND/U
SW8270C	2-Chlorophenol	ug/Kg	115 ND/U	122 ND/U	112 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	145/TR/J	89.9/TR/J	646/=
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	238 ND/U	253 ND/U	231 ND/U
SW8270C	2-Nitroaniline	ug/Kg	206 ND/U	219 ND/U	200 ND/U
SW8270C	2-Nitrophenol	ug/Kg	305 ND/U	324 ND/U	296 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	224 ND/UJ	238 ND/UJ	218 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	204 ND/U	217 ND/U	198 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	154 ND/U	164 ND/U	149 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	417 ND/U	444 ND/U	405 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	287 ND/U	305 ND/U	278 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	93.0 ND/U	98.9 ND/U	90.3 ND/U
SW8270C	4-Nitroaniline	ug/Kg	224 ND/UJ	238 ND/UJ	218 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	151 ND/U	160 ND/U	146 ND/U
SW8270C	Acenaphthene	ug/Kg	146/TR/J	323/TR/J	805/=
SW8270C	Acenaphthylene	ug/Kg	265/TR/J	597/=	160/TR/J
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	1280/=	1980/=	2070/=
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	4020/=	3400/=	2860/=
SW8270C	Benzo(a)pyrene	ug/Kg	3580/= /J	3050/=	2330/= /J
SW8270C	Benzo(b)fluoranthene	ug/Kg	3110/= /J	2410/=	2200/= /J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	1850/= /J	1990/=	935/= /J
SW8270C	Benzo(k)fluoranthene	ug/Kg	2620/= /J	2360/=	1900/= /J
SW8270C	Benzoic acid	ug/Kg	462 ND/U	491 ND/U	448 ND/U
SW8270C	Benzyl alcohol	ug/Kg	524 ND/U	557 ND/U	509 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	144 ND/U	153 ND/U	140 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	72.1/TR/J
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	552/=	540/=	877/=
SW8270C	Chrysene	ug/Kg	4310/=	3480/=	2920/=
SW8270C	Di-n-butylphthalate	ug/Kg	451 ND/U	479 ND/U	438 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	90.4 ND/U	96.1 ND/U	87.7 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	1280/= /J	1280/=	692/= /J
SW8270C	Dibenzofuran	ug/Kg	271 ND/U	288 ND/U	518/=
SW8270C	Diethylphthalate	ug/Kg	405 ND/U	431 ND/U	393 ND/U
SW8270C	Dimethylphthalate	ug/Kg	231 ND/U	246 ND/U	224 ND/U
SW8270C	Fluoranthene	ug/Kg	8550/=	9020/=	8380/=
SW8270C	Fluorene	ug/Kg	258/TR/J	469/=	1000/=
SW8270C	Hexachlorobenzene	ug/Kg	91.9 ND/U	97.7 ND/U	89.3 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.0 ND/U	31.9 ND/U	29.1 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	147 ND/UJ	157 ND/UJ	143 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	57.5 ND/U	61.1 ND/U	55.8 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	4540/= /J	4220/= /J	2090/= /J
SW8270C	Isophorone	ug/Kg	21.4 ND/U	22.8 ND/U	20.8 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	96.4 ND/U	102 ND/U	93.6 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	55.8 ND/U	59.3 ND/U	54.2 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	95.1 ND/U	101 ND/U	92.3 ND/U
SW8270C	Naphthalene	ug/Kg	96.4/TR/J	103/TR/J	326/TR/J
SW8270C	Nitrobenzene	ug/Kg	60.2 ND/U	64.0 ND/U	58.5 ND/U
SW8270C	Pentachlorophenol	ug/Kg	234 ND/U	249 ND/U	227 ND/U
SW8270C	Phenanthrene	ug/Kg	2910/=	4300/=	6660/=
SW8270C	Phenol	ug/Kg	123 ND/U	130 ND/U	119 ND/U
SW8270C	Pyrene	ug/Kg	4450/=	4510/=	3500/=
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	37.5 ND/U	39.9 ND/U	36.4 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	105 ND/U	111 ND/U	102 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-24-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-24-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-25-A(0.5-1.5) 11/1/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	118 ND/U	126 ND/U	115 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	368 ND/U	391 ND/U	357 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.70 ND/U	1.74 ND/U	1.59 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.732 ND/UJ	0.747 ND/UJ	0.683 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.84 ND/U	1.88 ND/U	1.72 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.909 ND/U	0.927 ND/U	0.848 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.996 ND/U	1.02 ND/U	0.929 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.06 ND/U	2.10 ND/U	1.92 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.10 ND/UJ	1.12 ND/UJ	1.02 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.39 ND/UJ	1.41 ND/UJ	1.29 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.97 ND/UJ	2.01 ND/UJ	1.84 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.764 ND/U	0.780 ND/U	0.713 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.21 ND/UJ	1.24 ND/UJ	1.13 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.883 ND/U	0.901 ND/U	0.824 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.383 ND/U	0.390 ND/U	0.357 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.34 ND/UJ	1.36 ND/UJ	1.25 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.22 ND/UJ	1.25 ND/UJ	1.14 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.40 ND/U	1.43 ND/U	7.24/TR/J
SW8260B	2-Hexanone	ug/Kg	1.10 ND/U	1.13 ND/U	1.03 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.21 ND/UJ	1.24 ND/UJ	1.13 ND/U
SW8260B	Acetone	ug/Kg	2.05 ND/U	2.09 ND/U	1.91 ND/U
SW8260B	Benzene	ug/Kg	6.52/=	1.09 ND/U	1.00 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.22 ND/U	1.24 ND/U	1.14 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.12 ND/U	1.15 ND/U	1.05 ND/U
SW8260B	Bromoform	ug/Kg	1.24 ND/U	1.26 ND/U	1.16 ND/U
SW8260B	Bromomethane	ug/Kg	1.77 ND/U	1.80 ND/U	1.65 ND/U
SW8260B	Carbon Disulfide	ug/Kg	11.4/=	1.79 ND/U	1.64 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.56 ND/U	1.59 ND/U	1.45 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.23 ND/U	1.25 ND/U	1.14 ND/U
SW8260B	Chloroethane	ug/Kg	1.94 ND/U	1.98 ND/U	1.81 ND/U
SW8260B	Chloroform	ug/Kg	0.410 ND/U	0.418 ND/U	0.382 ND/U
SW8260B	Chloromethane	ug/Kg	1.77 ND/U	1.80 ND/U	1.65 ND/U
SW8260B	Cyclohexane	ug/Kg	11.6/=	4.01/TR/J	3.69/TR/J
SW8260B	Dibromochloromethane	ug/Kg	1.45 ND/U	1.48 ND/U	1.35 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.18 ND/U	2.23 ND/U	2.04 ND/U
SW8260B	Ethylbenzene	ug/Kg	2.90/TR/J	0.833 ND/U	0.762 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.67 ND/UJ	1.70 ND/UJ	1.56 ND/U
SW8260B	Methyl Acetate	ug/Kg	4.28 ND/UJ	4.37 ND/UJ	3.99 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	12.0/=	4.37/TR/J	3.85/TR/J

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-24-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-24-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-25-A(0.5-1.5) 11/1/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.21 ND/U	1.23 ND/U	1.13 ND/U
SW8260B	Styrene	ug/Kg	1.12 ND/U	1.14 ND/U	1.05 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.14 ND/U	1.17 ND/U	1.07 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.83 ND/U	1.86 ND/U	1.70 ND/U
SW8260B	Toluene	ug/Kg	13.6/= /B	2.65/TR/JB	0.898 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.61 ND/U	1.64 ND/U	1.50 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.538 ND/U	0.549 ND/U	0.502 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.75 ND/U	1.79 ND/U	1.64 ND/U
SW8260B	Xylenes, Total	ug/Kg	7.80/=	3.61/TR/J	2.13/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.08 ND/U	1.10 ND/U	1.00 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.23 ND/U	1.25 ND/U	1.14 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.57 ND/U	1.60 ND/U	1.46 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.925 ND/U	0.943 ND/U	0.863 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-25-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26-A(3-5) 11/8/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	15.4/=	13.2/=	19.6/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0298 ND/U	0.0298 ND/U	0.0295 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0288 ND/U	0.0288 ND/U	0.0285 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0399 ND/U	0.0399 ND/U	0.0395 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0661 ND/U	0.0661 ND/U	0.0655 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0610 ND/U	0.0610 ND/U	0.0604 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0476 ND/U	0.0476 ND/U	0.0471 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.100 ND/U	0.100 ND/U	0.0995 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.137 ND/U	0.137 ND/U	0.136 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0594 ND/U	0.0594 ND/U	0.0589 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.0995 ND/U	0.0995 ND/U	0.0986 ND/U
SW8330	HMX	mg/Kg	0.0268 ND/U	0.0268 ND/U	0.0265 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0511 ND/U	0.0511 ND/U	0.0506 ND/U
SW8330	RDX	mg/Kg	0.0344 ND/U	0.0344 ND/U	0.0340 ND/U
SW8330	Tetryl	mg/Kg	0.0946 ND/UJ	0.0946 ND/UJ	0.0937 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9550/=	7220/=	11200/=
SW6010B	Antimony (total)	mg/Kg	1.14/TR/J	0.581 ND/U	0.986/TR/J
SW6010B	Arsenic (total)	mg/Kg	7.83/=	3.39/=	8.25/=
SW6010B	Barium (total)	mg/Kg	58.5/=	26.9/=	63.7/=
SW6010B	Beryllium (total)	mg/Kg	0.432/TR/J	0.0842/TR/J	0.409/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.410/TR/J	0.134/TR/J	0.273/TR/J
SW6010B	Calcium (total)	mg/Kg	17000/=	1190/=	11000/=
SW6010B	Chromium (total)	mg/Kg	16.3/=	8.39/=	17.4/=
SW6010B	Cobalt (total)	mg/Kg	9.60/=	3.02/=	8.77/=
SW6010B	Copper (total)	mg/Kg	20.7/=	3.66/=	21.1/=
SW6010B	Iron (total)	mg/Kg	22200/=	10700/=	22400/=
SW6010B	Lead (total)	mg/Kg	22.7/=	3.82/=	10.6/=
SW6010B	Magnesium (total)	mg/Kg	3340/=	901/=	6000/=
SW6010B	Manganese (total)	mg/Kg	423/=	90.7/=	433/=
SW7471A	Mercury (total)	mg/Kg	0.0831/=	0.0152/TR/J	0.0071 ND/U
SW6010B	Nickel (total)	mg/Kg	19.7/=	7.35/=	24.7/=
SW6010B	Potassium (total)	mg/Kg	695/=	274/=	1380/=
SW6010B	Selenium (total)	mg/Kg	2.22 ND/U	1.05 ND/U	1.26 ND/U
SW6010B	Silver (total)	mg/Kg	0.101/TR/J	0.0856 ND/U	0.103 ND/U
SW6010B	Sodium (total)	mg/Kg	44.7/TR/J	32.0/TR/J	80.1/TR/J
SW6010B	Thallium (total)	mg/Kg	4.76/=	2.07/=	5.34/=
SW6010B	Vanadium (total)	mg/Kg	26.3/=	18.5/=	28.6/=

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE ,UNITS	PBOW-04-SO-AA2-SB-25-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26-A(3-5) 11/8/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	101/=	19.7/=	59.2/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	45.3 ND/U	9.45 ND/U	9.49 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	1700 ND/U	39.6 ND/U	39.8 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	199 ND/U	21.4 ND/U	21.4 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	98.0 ND/U	20.4 ND/U	20.5 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	340 ND/U	20.9 ND/U	21.0 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	333/TR/J	18.1 ND/U	18.2 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	415/TR/J	5.07 ND/U	5.08 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.6 ND/U	51.8 ND/U	55.1 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.2 ND/U	51.4 ND/U	54.7 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.0 ND/U	35.1 ND/U	37.4 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.1 ND/U	38.2 ND/U	40.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	305 ND/U	306 ND/U	326 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	533 ND/U	535 ND/U	570 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	128 ND/U	129 ND/U	137 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	155 ND/U	155 ND/U	165 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	414 ND/U	415 ND/U	442 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	120 ND/U	121 ND/U	129 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	163 ND/U	163 ND/U	174 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.1 ND/U	38.2 ND/U	40.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	118 ND/U	119 ND/U	126 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	65.7/TR/J	30.0 ND/U	32.0 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	244 ND/U	245 ND/U	261 ND/U
SW8270C	2-Nitroaniline	ug/Kg	212 ND/U	213 ND/U	227 ND/U
SW8270C	2-Nitrophenol	ug/Kg	313 ND/U	314 ND/U	334 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	756 ND/U
SW8270C	3-Nitroaniline	ug/Kg	230 ND/UJ	231 ND/UJ	246 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	210 ND/U	211 ND/U	224 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	158 ND/U	159 ND/U	169 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	429 ND/U	430 ND/U	458 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	199 ND/UJ	212 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	295 ND/U	296 ND/U	315 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	95.6 ND/U	96.0 ND/U	102 ND/U
SW8270C	4-Nitroaniline	ug/Kg	230 ND/UJ	231 ND/UJ	246 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	155 ND/U	155 ND/U	165 ND/U
SW8270C	Acenaphthene	ug/Kg	13.2 ND/U	13.2 ND/U	14.1 ND/U
SW8270C	Acenaphthylene	ug/Kg	41.8 ND/U	42.0 ND/U	44.7 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-25-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26-A(3-5) 11/8/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	180/TR/J	30.6 ND/U	32.6 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	302/TR/J	22.1 ND/U	23.5 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	253/TR/J	29.9 ND/U	31.8 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	197/TR/J	28.5 ND/U	30.4 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	278/TR/J	27.2 ND/U	28.9 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	249/TR/J	32.3 ND/U	34.4 ND/U
SW8270C	Benzoic acid	ug/Kg	475 ND/U	476 ND/U	507 ND/U
SW8270C	Benzyl alcohol	ug/Kg	539 ND/U	541 ND/U	576 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	148 ND/U	148 ND/U	158 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	87.3/TR/J	50.0 ND/U	53.2 ND/U
SW8270C	Chrysene	ug/Kg	298/TR/J	17.5 ND/U	18.6 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	916/=	9230/=	495 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	92.9 ND/U	93.2 ND/U	99.2 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	148/TR/J	22.8 ND/U	24.3 ND/U
SW8270C	Dibenzofuran	ug/Kg	279 ND/U	280 ND/U	298 ND/U
SW8270C	Diethylphthalate	ug/Kg	416 ND/U	418 ND/U	445 ND/U
SW8270C	Dimethylphthalate	ug/Kg	237 ND/U	238 ND/U	254 ND/U
SW8270C	Fluoranthene	ug/Kg	657/= /J	19.0 ND/U	20.2 ND/U
SW8270C	Fluorene	ug/Kg	69.6/TR/J	11.1 ND/U	11.9 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	94.5 ND/U	94.8 ND/U	101 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.8 ND/U	31.0 ND/U	32.9 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	151 ND/UJ	152 ND/UJ	162 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.0 ND/U	59.3 ND/U	63.1 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	358/TR/J	28.5 ND/U	30.4 ND/U
SW8270C	Isophorone	ug/Kg	22.0 ND/U	22.1 ND/U	23.5 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.1 ND/U	99.4 ND/U	106 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.3 ND/U	57.5 ND/U	61.2 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	97.7 ND/U	98.1 ND/U	104 ND/U
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	10.9 ND/U	11.6 ND/U
SW8270C	Nitrobenzene	ug/Kg	61.9 ND/U	62.1 ND/U	66.1 ND/U
SW8270C	Pentachlorophenol	ug/Kg	241 ND/U	242 ND/U	257 ND/U
SW8270C	Phenanthrene	ug/Kg	524/= /J	21.3 ND/U	22.7 ND/U
SW8270C	Phenol	ug/Kg	126 ND/U	127 ND/U	135 ND/U
SW8270C	Pyrene	ug/Kg	494/= /J	16.5 ND/U	17.5 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.5 ND/U	38.7 ND/U	41.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	108 ND/U	115 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-25-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-26-A(3-5) 11/8/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	122 ND/U	130 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	378 ND/U	380 ND/U	428/=
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.49 ND/U	1.42 ND/U	1.45 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.640 ND/U	0.611 ND/U	0.622 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.61 ND/U	1.53 ND/U	1.56 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.795 ND/U	0.758 ND/U	0.772 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.871 ND/U	0.831 ND/U	0.846 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.80 ND/U	1.72 ND/U	1.75 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.958 ND/U	0.914 ND/U	0.930 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.21 ND/UJ	1.16 ND/U	1.18 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.73 ND/U	1.65 ND/U	1.68 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.668 ND/U	0.637 ND/U	0.649 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.06 ND/UJ	1.01 ND/U	1.03 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.772 ND/U	0.737 ND/U	0.750 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.335 ND/U	0.319 ND/U	0.325 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.17 ND/UJ	1.12 ND/U	1.14 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.07 ND/UJ	1.02 ND/U	1.04 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.22 ND/U	1.17 ND/U	1.19 ND/U
SW8260B	2-Hexanone	ug/Kg	0.965 ND/U	0.921 ND/U	0.938 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.06 ND/U	1.01 ND/U	1.03 ND/U
SW8260B	Acetone	ug/Kg	1.79 ND/U	1.71 ND/U	1.74 ND/U
SW8260B	Benzene	ug/Kg	0.939 ND/U	0.895 ND/U	6.84/=
SW8260B	Bromochloromethane	ug/Kg	1.07 ND/U	1.02 ND/U	1.04 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.983 ND/U	0.937 ND/U	0.954 ND/U
SW8260B	Bromoform	ug/Kg	1.08 ND/U	1.03 ND/U	1.05 ND/U
SW8260B	Bromomethane	ug/Kg	1.54 ND/U	1.47 ND/U	1.50 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.53 ND/U	1.46 ND/U	1.49 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.36 ND/U	1.30 ND/U	1.32 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.07 ND/U	1.02 ND/U	1.04 ND/U
SW8260B	Chloroethane	ug/Kg	1.69 ND/U	1.62 ND/U	1.65 ND/U
SW8260B	Chloroform	ug/Kg	0.358 ND/U	0.342 ND/U	0.348 ND/U
SW8260B	Chloromethane	ug/Kg	1.54 ND/U	1.47 ND/U	1.50 ND/U
SW8260B	Cyclohexane	ug/Kg	1.77 ND/U	1.69 ND/U	10.8/=
SW8260B	Dibromochloromethane	ug/Kg	1.27 ND/U	1.21 ND/U	1.23 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.91 ND/U	1.82 ND/U	1.85 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.714 ND/U	0.681 ND/U	3.27/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.46 ND/U	1.39 ND/U	1.42 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.74 ND/UJ	3.57 ND/UJ	3.64 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.826 ND/UJ	0.788 ND/U	11.4/=

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SW8260B	Methylene Chloride	ug/Kg	1.06 ND/U	1.01 ND/U	1.03 ND/U
SW8260B	Styrene	ug/Kg	0.980 ND/U	0.935 ND/U	0.952 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.00 ND/U	0.955 ND/U	0.972 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.60 ND/U	1.52 ND/U	1.55 ND/U
SW8260B	Toluene	ug/Kg	0.842 ND/U	0.803 ND/U	15.7/=
SW8260B	Trichloroethene (TCE)	ug/Kg	1.41 ND/U	1.34 ND/U	1.36 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.471 ND/U	0.449 ND/U	0.457 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.53 ND/U	1.46 ND/U	1.49 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.20 ND/U	1.15 ND/U	9.71/=
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.942 ND/U	0.898 ND/U	0.915 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.07 ND/U	1.02 ND/U	1.04 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.37 ND/U	1.31 ND/U	1.33 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.809 ND/U	0.771 ND/U	0.785 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-26-A(8-10) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-27-A-(3-5) 10/29/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	21.3/=	12.4/=	0.722/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0295 ND/U	0.0306 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0285 ND/U	0.0297 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0395 ND/U	0.0411 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0655 ND/UJ	0.0681 ND/UJ
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.833/=	0.0628 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0471 ND/U	0.0490 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.0995 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.136 ND/U	0.141 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0589 ND/U	0.0612 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.0986 ND/UJ	0.102 ND/UJ
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0265 ND/U	0.0276 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0506 ND/U	0.0526 ND/U
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0340 ND/U	0.0354 ND/U
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0937 ND/UJ	0.0974 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	10600/=	8020/=	9210/=
SW6010B	Antimony (total)	mg/Kg	0.739 ND/U	0.984/TR/J	0.753/TR/J
SW6010B	Arsenic (total)	mg/Kg	5.58/=	4.45/= /J	3.96/= /J
SW6010B	Barium (total)	mg/Kg	63.4/=	58.7/=	62.6/=
SW6010B	Beryllium (total)	mg/Kg	0.379/TR/J	0.375/TR/J	0.402/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.292/TR/J	0.591/= /J	0.317/TR/J
SW6010B	Calcium (total)	mg/Kg	56700/=	12500/=	3330/=
SW6010B	Chromium (total)	mg/Kg	16.1/=	17.3/=	13.6/=
SW6010B	Cobalt (total)	mg/Kg	8.78/=	5.62/=	7.39/=
SW6010B	Copper (total)	mg/Kg	23.0/=	15.2/= /J	14.3/= /J
SW6010B	Iron (total)	mg/Kg	23800/=	16600/=	17100/=
SW6010B	Lead (total)	mg/Kg	12.0/=	477/=	16.1/=
SW6010B	Magnesium (total)	mg/Kg	19700/=	5410/=	2290/=
SW6010B	Manganese (total)	mg/Kg	388/=	254/=	142/=
SW7471A	Mercury (total)	mg/Kg	0.0153/TR/J	0.0351/=	0.0333/=
SW6010B	Nickel (total)	mg/Kg	23.0/=	13.5/=	17.4/=
SW6010B	Potassium (total)	mg/Kg	2000/=	760/=	813/=
SW6010B	Selenium (total)	mg/Kg	1.34 ND/U	0.983 ND/U	1.04 ND/U
SW6010B	Silver (total)	mg/Kg	0.109 ND/U	0.0801 ND/U	0.0848 ND/U
SW6010B	Sodium (total)	mg/Kg	126/TR/J	55.7/TR/J	37.8/TR/J
SW6010B	Thallium (total)	mg/Kg	1.13 ND/U	4.03/= /J	2.69/= /J
SW6010B	Vanadium (total)	mg/Kg	26.9/=	19.4/=	20.7/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-26-A(8-10) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-27-A-(0.5-1.5) 10/29/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-27-A-(3-5) 10/29/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	58.9/=	372/= /J	58.2/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	10.5 ND/U	2710 ND/U	15.8 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	43.8 ND/U	102000 ND/U	66.4 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	23.6 ND/U	11900 ND/U	35.8 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	22.6 ND/U	5860 ND/U	34.2 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	23.1 ND/U	20300 ND/U	35.0 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	20.1 ND/U	6950/TR/J	112/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.60 ND/U	18000/TR/J	201/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	56.9 ND/U	50.0 ND/U	44.3 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	56.5 ND/U	49.7 ND/U	44.0 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	38.5 ND/U	33.9 ND/U	30.0 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	42.0 ND/U	36.9 ND/U	32.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	336 ND/U	296 ND/U	262 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	588 ND/U	517 ND/U	458 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	142 ND/U	124 ND/U	110 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	171 ND/U	150 ND/U	133 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	456 ND/U	401 ND/U	355 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	133 ND/U	245/TR/J	103 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	179 ND/U	158 ND/U	140 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	42.0 ND/U	36.9 ND/U	32.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	130 ND/U	114 ND/U	101 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	33.0 ND/U	29.0 ND/U	25.7 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	269 ND/U	237 ND/U	210 ND/U
SW8270C	2-Nitroaniline	ug/Kg	234 ND/U	206 ND/U	182 ND/U
SW8270C	2-Nitrophenol	ug/Kg	345 ND/U	303 ND/U	269 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	780 ND/U	686 ND/UJ	607 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	254 ND/UJ	223 ND/U	198 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	231 ND/U	203 ND/U	180 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	174 ND/U	153 ND/U	136 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	473 ND/U	416 ND/U	368 ND/U
SW8270C	4-Chloroaniline	ug/Kg	219 ND/UJ	192 ND/UJ	170 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	325 ND/U	286 ND/U	253 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	105 ND/U	92.7 ND/U	82.1 ND/U
SW8270C	4-Nitroaniline	ug/Kg	254 ND/UJ	223 ND/UJ	198 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	171 ND/U	150 ND/U	133 ND/U
SW8270C	Acenaphthene	ug/Kg	14.5 ND/U	12.8 ND/U	11.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	46.1 ND/U	40.6 ND/U	35.9 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	33.6 ND/U	29.6 ND/U	26.2 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	24.3 ND/U	90.7/TR/J	18.9 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	32.9 ND/U	71.4/TR/J	25.6 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	31.3 ND/U	86.8/TR/J	24.4 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	29.8 ND/U	70.5/TR/J	23.2 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	35.5 ND/U	67.6/TR/J	27.7 ND/U
SW8270C	Benzoic acid	ug/Kg	523 ND/U	460 ND/U	407 ND/U
SW8270C	Benzyl alcohol	ug/Kg	594 ND/U	522 ND/U	463 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	163 ND/U	143 ND/U	127 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	54.8 ND/U	48.2 ND/U	42.7 ND/U
SW8270C	Chrysene	ug/Kg	19.2 ND/U	147/TR/J	15.0 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	511 ND/U	449 ND/U	398 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	102 ND/U	90.0 ND/U	79.7 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	25.0 ND/U	22.0 ND/U	19.5 ND/U
SW8270C	Dibenzofuran	ug/Kg	307 ND/U	270 ND/U	239 ND/U
SW8270C	Diethylphthalate	ug/Kg	459 ND/U	403 ND/U	357 ND/U
SW8270C	Dimethylphthalate	ug/Kg	262 ND/U	230 ND/U	204 ND/U
SW8270C	Fluoranthene	ug/Kg	20.9 ND/U	163/TR/J	16.2 ND/U
SW8270C	Fluorene	ug/Kg	12.2 ND/U	10.8 ND/U	9.53 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	104 ND/U	91.6 ND/U	81.1 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	34.0 ND/U	29.9 ND/U	26.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	167 ND/UJ	147 ND/UJ	130 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	65.1 ND/U	57.2 ND/U	50.7 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	31.3 ND/U	133/TR/J	24.4 ND/U
SW8270C	Isophorone	ug/Kg	24.3 ND/U	21.3 ND/U	18.9 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	109 ND/U	96.0 ND/U	85.0 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	63.2 ND/U	55.6 ND/U	49.2 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	108 ND/U	94.7 ND/U	83.8 ND/U
SW8270C	Naphthalene	ug/Kg	12.0 ND/U	10.5 ND/U	9.32 ND/U
SW8270C	Nitrobenzene	ug/Kg	68.2 ND/U	60.0 ND/U	53.1 ND/U
SW8270C	Pentachlorophenol	ug/Kg	265 ND/U	233 ND/U	207 ND/U
SW8270C	Phenanthrene	ug/Kg	23.4 ND/U	80.0/TR/J	18.2 ND/U
SW8270C	Phenol	ug/Kg	139 ND/U	122 ND/U	108 ND/U
SW8270C	Pyrene	ug/Kg	18.1 ND/U	133/TR/J	14.1 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	42.5 ND/U	37.3 ND/U	33.1 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	119 ND/U	104 ND/U	92.3 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	134 ND/U	118 ND/U	104 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	417 ND/U	367 ND/U	325 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.49 ND/U	1.54 ND/U	1.25 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.642 ND/U	0.662 ND/U	0.538 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.61 ND/U	1.66 ND/U	1.35 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.797 ND/U	0.821 ND/U	0.668 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.873 ND/U	0.900 ND/U	0.732 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.81 ND/U	1.86 ND/U	1.51 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.960 ND/U	0.990 ND/U	0.805 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.21 ND/U	1.25 ND/U	1.02 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.73 ND/U	1.78 ND/U	1.45 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.670 ND/U	0.690 ND/U	0.561 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.06 ND/U	1.10 ND/U	0.891 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.774 ND/U	0.798 ND/U	0.649 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.335 ND/U	0.346 ND/U	0.281 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.17 ND/U	1.21 ND/U	0.982 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.07 ND/U	1.10 ND/U	0.897 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.23 ND/U	8.85/TR/J	1.03 ND/U
SW8260B	2-Hexanone	ug/Kg	0.967 ND/U	0.997 ND/U	0.811 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.06 ND/U	4.83/TR/J	0.889 ND/U
SW8260B	Acetone	ug/Kg	1.80 ND/U	130/= /B	1.50 ND/U
SW8260B	Benzene	ug/Kg	1.68/TR/J	2.02/TR/J	0.788 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.07 ND/U	1.10 ND/U	0.896 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.985 ND/U	1.02 ND/U	0.825 ND/U
SW8260B	Bromoform	ug/Kg	1.09 ND/U	1.12 ND/U	0.910 ND/U
SW8260B	Bromomethane	ug/Kg	1.55 ND/U	1.60 ND/U	1.30 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.54 ND/U	18.5/=	1.29 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.37 ND/U	1.41 ND/U	1.14 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.07 ND/U	1.11 ND/U	0.901 ND/U
SW8260B	Chloroethane	ug/Kg	1.70 ND/U	1.75 ND/U	1.42 ND/U
SW8260B	Chloroform	ug/Kg	0.359 ND/U	0.370 ND/U	0.301 ND/U
SW8260B	Chloromethane	ug/Kg	1.55 ND/U	1.60 ND/U	1.30 ND/U
SW8260B	Cyclohexane	ug/Kg	5.32/TR/J	5.91/=	1.49 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.27 ND/U	1.31 ND/U	1.06 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.91 ND/U	1.97 ND/U	1.60 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.716 ND/U	1.05/TR/J	0.600 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.46 ND/U	1.51 ND/U	1.23 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.75 ND/UJ	3.87 ND/UJ	3.14 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	5.88/=	5.93/=	0.694 ND/U

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SW8260B	Methylene Chloride	ug/Kg	1.06 ND/U	1.09 ND/U	0.887 ND/U
SW8260B	Styrene	ug/Kg	0.983 ND/U	1.01 ND/U	0.823 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.00 ND/U	1.03 ND/U	0.841 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.60 ND/U	1.65 ND/U	1.34 ND/U
SW8260B	Toluene	ug/Kg	3.12/TR/J	4.62/TR/JB	0.707 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.41 ND/U	1.45 ND/U	1.18 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.472 ND/U	0.487 ND/U	0.396 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.54 ND/U	1.58 ND/U	1.29 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.39/TR/J	3.83/TR/J	1.01 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.944 ND/U	0.973 ND/U	0.791 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.07 ND/U	1.11 ND/U	0.901 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.38 ND/U	1.42 ND/U	1.15 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.811 ND/U	0.836 ND/U	0.679 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	14.6/=	19.5/=	20.4/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0311 ND/U	0.0306 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0301 ND/U	0.0297 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0417 ND/U	0.0411 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0691 ND/U	0.0681 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.0637 ND/U	0.0628 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0497 ND/U	0.0490 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.105 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.143 ND/U	0.141 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0621 ND/U	0.0612 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.104 ND/U	0.102 ND/U
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0280 ND/U	0.0276 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0534 ND/U	0.0526 ND/U
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0359 ND/U	0.0354 ND/U
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0989 ND/UJ	0.0974 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	6850/=	10500/=	9870/=
SW6010B	Antimony (total)	mg/Kg	1.10/TR/J	1.61/= /J	0.616 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	3.38/=	14.1/=	3.80/=
SW6010B	Barium (total)	mg/Kg	159/=	63.6/=	46.4/=
SW6010B	Beryllium (total)	mg/Kg	0.198/TR/J	0.504/=	0.382/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.661/=	0.306/TR/J	0.293/TR/J
SW6010B	Calcium (total)	mg/Kg	80400/=	8160/=	53300/=
SW6010B	Chromium (total)	mg/Kg	18.5/=	18.8/=	16.8/=
SW6010B	Cobalt (total)	mg/Kg	5.55/=	9.54/=	8.36/=
SW6010B	Copper (total)	mg/Kg	53.0/=	31.3/=	22.0/=
SW6010B	Iron (total)	mg/Kg	16100/=	29500/=	24000/=
SW6010B	Lead (total)	mg/Kg	154/=	15.1/=	11.8/=
SW6010B	Magnesium (total)	mg/Kg	6340/=	5930/=	15000/=
SW6010B	Manganese (total)	mg/Kg	646/=	223/=	319/=
SW7471A	Mercury (total)	mg/Kg	0.429/=	0.0116/TR/J	0.0087/TR/J
SW6010B	Nickel (total)	mg/Kg	18.3/=	28.1/=	24.2/=
SW6010B	Potassium (total)	mg/Kg	785/=	1190/=	1710/=
SW6010B	Selenium (total)	mg/Kg	2.69 ND/U	0.928 ND/U	2.23 ND/U
SW6010B	Silver (total)	mg/Kg	0.389/TR/J	0.0756 ND/U	0.240/TR/J
SW6010B	Sodium (total)	mg/Kg	101/TR/J	86.6/TR/J	125/TR/J
SW6010B	Thallium (total)	mg/Kg	1.14 ND/U	4.02/=	0.942 ND/U
SW6010B	Vanadium (total)	mg/Kg	19.3/=	31.6/=	21.3/=

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SW6010B	Zinc (total)	mg/Kg	146/=	65.8/=	53.7/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	941 ND/U	10.2 ND/U	10.3 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	3950 ND/U	42.6 ND/U	43.2 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	2130 ND/U	23.0 ND/U	23.3 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	2040 ND/U	22.0 ND/U	22.3 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	2080 ND/U	22.5 ND/U	22.8 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	5200/TR/J	19.5 ND/U	19.8 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	6330/TR/J	5.45 ND/U	5.52 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	50.3 ND/U	55.6 ND/U	55.6 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	50.0 ND/U	55.3 ND/U	55.2 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	34.1 ND/U	37.7 ND/U	37.7 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	37.1 ND/U	41.0 ND/U	41.0 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	297 ND/U	329 ND/U	329 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	520 ND/U	575 ND/U	574 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	125 ND/U	138 ND/U	138 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	151 ND/U	167 ND/U	167 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	404 ND/U	446 ND/U	446 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	117 ND/U	130 ND/U	130 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	159 ND/U	176 ND/U	175 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	37.1 ND/U	41.0 ND/U	41.0 ND/U
SW8270C	2-Chlorophenol	ug/Kg	115 ND/U	127 ND/U	127 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	123/TR/J	32.3 ND/U	32.2 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	238 ND/U	263 ND/U	263 ND/U
SW8270C	2-Nitroaniline	ug/Kg	207 ND/U	229 ND/U	229 ND/U
SW8270C	2-Nitrophenol	ug/Kg	305 ND/U	337 ND/U	337 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	225 ND/UJ	248 ND/UJ	248 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	205 ND/U	226 ND/U	226 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	154 ND/U	171 ND/U	170 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	418 ND/U	462 ND/U	462 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	287 ND/U	318 ND/U	317 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	93.2 ND/U	103 ND/U	103 ND/U
SW8270C	4-Nitroaniline	ug/Kg	225 ND/UJ	248 ND/UJ	248 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	151 ND/U	167 ND/U	167 ND/U
SW8270C	Acenaphthene	ug/Kg	112/TR/J	14.2 ND/U	14.2 ND/U
SW8270C	Acenaphthylene	ug/Kg	123/TR/J	45.1 ND/U	45.1 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA2-SB-28-A(0.5-1.5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-28-A(3-5) 11/1/2004 RESULT / QUAL	PBOW-04-SO-AA2-SB-28-A(8-10) 11/1/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	441/=	32.9 ND/U	32.9 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	906/=	23.7 ND/U	23.7 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	907/= /J	32.1 ND/U	32.1 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	909/= /J	30.7 ND/U	30.6 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	427/= /J	29.2 ND/U	29.2 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	918/= /J	34.7 ND/U	34.7 ND/U
SW8270C	Benzoic acid	ug/Kg	463 ND/U	512 ND/U	511 ND/U
SW8270C	Benzyl alcohol	ug/Kg	525 ND/U	581 ND/U	581 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	144 ND/U	159 ND/U	159 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	270/TR/J	53.6 ND/U	53.6 ND/U
SW8270C	Chrysene	ug/Kg	1160/=	18.8 ND/U	18.8 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	452 ND/U	499 ND/U	499 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	90.5 ND/U	100 ND/U	100 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	211/TR/J	24.5 ND/U	24.5 ND/U
SW8270C	Dibenzofuran	ug/Kg	272 ND/U	300 ND/U	300 ND/U
SW8270C	Diethylphthalate	ug/Kg	406 ND/U	449 ND/U	448 ND/U
SW8270C	Dimethylphthalate	ug/Kg	231 ND/U	256 ND/U	256 ND/U
SW8270C	Fluoranthene	ug/Kg	1800/=	20.4 ND/U	20.4 ND/U
SW8270C	Fluorene	ug/Kg	149/TR/J	12.0 ND/U	12.0 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	92.1 ND/U	102 ND/U	102 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.1 ND/U	33.2 ND/U	33.2 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	148 ND/UJ	163 ND/UJ	163 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	57.6 ND/U	63.7 ND/U	63.6 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	940/= /J	30.7 ND/U	30.6 ND/U
SW8270C	Isophorone	ug/Kg	21.5 ND/U	23.7 ND/U	23.7 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	96.6 ND/U	107 ND/U	107 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	55.9 ND/U	61.8 ND/U	61.8 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	95.2 ND/U	105 ND/U	105 ND/U
SW8270C	Naphthalene	ug/Kg	66.2/TR/J	11.7 ND/U	11.7 ND/U
SW8270C	Nitrobenzene	ug/Kg	60.4 ND/U	66.7 ND/U	66.7 ND/U
SW8270C	Pentachlorophenol	ug/Kg	235 ND/U	260 ND/U	259 ND/U
SW8270C	Phenanthrene	ug/Kg	1240/=	22.9 ND/U	22.9 ND/U
SW8270C	Phenol	ug/Kg	123 ND/U	136 ND/U	136 ND/U
SW8270C	Pyrene	ug/Kg	1130/=	17.7 ND/U	17.7 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	37.6 ND/U	41.5 ND/U	41.5 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	105 ND/U	116 ND/U	116 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	118 ND/U	131 ND/U	131 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	369 ND/U	408 ND/U	408 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.53 ND/U	1.43 ND/U	1.44 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.656 ND/U	0.615 ND/U	0.619 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.65 ND/U	1.55 ND/U	1.55 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.814 ND/U	0.763 ND/U	0.768 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.892 ND/U	0.836 ND/U	0.842 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.85 ND/U	1.73 ND/U	1.74 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.981 ND/U	0.920 ND/U	0.926 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.24 ND/U	1.16 ND/U	1.17 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.77 ND/U	1.66 ND/U	1.67 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.684 ND/U	0.642 ND/U	0.646 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.09 ND/U	1.02 ND/U	1.03 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.791 ND/U	0.742 ND/U	0.746 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.343 ND/U	0.321 ND/U	0.323 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.20 ND/U	1.12 ND/U	1.13 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.09 ND/U	1.03 ND/U	1.03 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.25 ND/U	1.17 ND/U	1.18 ND/U
SW8260B	2-Hexanone	ug/Kg	0.989 ND/U	0.927 ND/U	0.933 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.08 ND/U	1.02 ND/U	1.02 ND/U
SW8260B	Acetone	ug/Kg	1.83 ND/U	1.72 ND/U	1.73 ND/U
SW8260B	Benzene	ug/Kg	3.06/TR/J	4.65/TR/J	1.60/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.09 ND/U	1.02 ND/U	1.03 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.01 ND/U	0.944 ND/U	0.949 ND/U
SW8260B	Bromoform	ug/Kg	1.11 ND/U	1.04 ND/U	1.05 ND/U
SW8260B	Bromomethane	ug/Kg	1.58 ND/U	1.48 ND/U	1.49 ND/U
SW8260B	Carbon Disulfide	ug/Kg	29.1/=	1.47 ND/U	1.48 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.40 ND/U	1.31 ND/U	1.32 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.10 ND/U	1.03 ND/U	1.04 ND/U
SW8260B	Chloroethane	ug/Kg	1.74 ND/U	1.63 ND/U	1.64 ND/U
SW8260B	Chloroform	ug/Kg	0.367 ND/U	0.344 ND/U	0.346 ND/U
SW8260B	Chloromethane	ug/Kg	1.58 ND/U	1.48 ND/U	1.49 ND/U
SW8260B	Cyclohexane	ug/Kg	7.88/=	6.64/=	1.87/TR/J
SW8260B	Dibromochloromethane	ug/Kg	1.30 ND/U	1.22 ND/U	1.22 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.96 ND/U	1.83 ND/U	1.85 ND/U
SW8260B	Ethylbenzene	ug/Kg	1.38/TR/J	2.62/TR/J	1.45/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.49 ND/U	1.40 ND/U	1.41 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.83 ND/UJ	3.59 ND/UJ	3.62 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	8.53/=	7.03/=	2.78/TR/J

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SW8260B	Methylene Chloride	ug/Kg	1.08 ND/U	1.01 ND/U	1.02 ND/U
SW8260B	Styrene	ug/Kg	1.00 ND/U	0.941 ND/U	0.947 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.02 ND/U	0.961 ND/U	0.967 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.64 ND/U	1.53 ND/U	1.54 ND/U
SW8260B	Toluene	ug/Kg	5.44/TR/JB	10.2/= /B	5.87/= /B
SW8260B	Trichloroethene (TCE)	ug/Kg	1.44 ND/U	1.35 ND/U	1.36 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.482 ND/U	0.452 ND/U	0.455 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.57 ND/U	1.47 ND/U	1.48 ND/U
SW8260B	Xylenes, Total	ug/Kg	6.13/=	5.92/=	4.53/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.964 ND/U	0.904 ND/U	0.910 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.10 ND/U	1.03 ND/U	1.04 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.41 ND/U	1.32 ND/U	1.33 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.828 ND/U	0.777 ND/U	0.782 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	24.7/=	28.8/=	32.5/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0306 ND/U	0.0306 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0552/TR/J	0.0297 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0411 ND/U	0.0411 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.148/TR/J	0.0681 ND/U	0.0691 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0628 ND/U	0.0628 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0490 ND/U	0.0490 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.141 ND/U	0.141 ND/U	0.143 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0612 ND/U	0.0612 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.102 ND/U	0.104 ND/U
SW8330	HMX	mg/Kg	0.0276 ND/U	0.0276 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0526 ND/U	0.0526 ND/U	0.0534 ND/U
SW8330	RDX	mg/Kg	0.0354 ND/U	0.0354 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.134/TR/J	0.0974 ND/UJ	0.0989 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	12200/=	7810/=	8270/=
SW6010B	Antimony (total)	mg/Kg	1.07/TR/J	0.790 ND/UJ	1.10/TR/J
SW6010B	Arsenic (total)	mg/Kg	3.03/TR/J	2.64/TR/J	2.40/TR/J
SW6010B	Barium (total)	mg/Kg	77.3/=	57.3/=	59.5/=
SW6010B	Beryllium (total)	mg/Kg	0.595/TR/J	0.385/TR/J	0.393/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.658/=	0.518/TR/J	0.525/TR/J
SW6010B	Calcium (total)	mg/Kg	6490/=	6850/=	6740/=
SW6010B	Chromium (total)	mg/Kg	17.8/=	14.4/=	14.6/=
SW6010B	Cobalt (total)	mg/Kg	6.41/=	6.26/=	6.33/=
SW6010B	Copper (total)	mg/Kg	21.5/=	21.7/=	22.3/=
SW6010B	Iron (total)	mg/Kg	18100/=	15000/=	15300/=
SW6010B	Lead (total)	mg/Kg	28.2/=	169/=	170/=
SW6010B	Magnesium (total)	mg/Kg	3310/=	2640/=	2690/=
SW6010B	Manganese (total)	mg/Kg	108/= /J	165/= /J	186/= /J
SW7471A	Mercury (total)	mg/Kg	0.0543/=	0.0589/=	0.0725/=
SW6010B	Nickel (total)	mg/Kg	20.5/=	18.9/=	18.9/=
SW6010B	Potassium (total)	mg/Kg	1680/= /J	1050/= /J	1070/=
SW6010B	Selenium (total)	mg/Kg	3.72/=	1.57/TR/J	3.86/=
SW6010B	Silver (total)	mg/Kg	0.199/TR/J	0.116 ND/U	0.141 ND/U
SW6010B	Sodium (total)	mg/Kg	50.4/TR/J	51.9/TR/J	56.9/TR/J
SW6010B	Thallium (total)	mg/Kg	4.02/=	4.41/=	4.70/=
SW6010B	Vanadium (total)	mg/Kg	27.0/=	19.7/=	20.4/=

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SW6010B	Zinc (total)	mg/Kg	68.4/=	68.2/=	69.5/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	10.4 ND/U	215 ND/U	238 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	43.8 ND/U	8070 ND/U	8940 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	23.6 ND/U	946 ND/U	1050 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	22.6 ND/U	465 ND/U	515 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	23.1 ND/U	1610 ND/U	1790 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	20.0 ND/U	1520/TR/J	2280/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	75.0/TR/J	3140/TR/J	3080/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	59.6 ND/UJ	61.6 ND/U	63.5 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	59.2 ND/UJ	61.2 ND/U	63.1 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	40.4 ND/UJ	41.7 ND/U	43.0 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	43.9 ND/UJ	45.4 ND/U	46.8 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	352 ND/U	364 ND/U	375 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	615 ND/U	636 ND/U	656 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	148 ND/U	153 ND/U	158 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	179 ND/U	185 ND/U	190 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	478 ND/U	494 ND/U	509 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	139 ND/UJ	144 ND/U	148 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	188 ND/UJ	194 ND/U	200 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	43.9 ND/UJ	45.4 ND/U	46.8 ND/U
SW8270C	2-Chlorophenol	ug/Kg	136 ND/U	141 ND/U	145 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	34.5 ND/UJ	35.7 ND/U	36.8 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	282 ND/U	362/TR/J	301 ND/U
SW8270C	2-Nitroaniline	ug/Kg	245 ND/UJ	253 ND/U	261 ND/U
SW8270C	2-Nitrophenol	ug/Kg	361 ND/U	374 ND/U	385 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	242 ND/U	250 ND/U	258 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	183 ND/UJ	189 ND/U	195 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	495 ND/U	512 ND/U	528 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	340 ND/UJ	352 ND/U	363 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	212/TR/J	114 ND/U	118 ND/U
SW8270C	4-Nitroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Nitrophenol	ug/Kg	179 ND/U	185 ND/U	190 ND/U
SW8270C	Acenaphthene	ug/Kg	15.2 ND/UJ	15.7 ND/U	16.2 ND/U
SW8270C	Acenaphthylene	ug/Kg	172/TR/J	116/TR/J	122/TR/J
SW8270C	Acetophenone	ug/Kg	140/TR/J	156/TR/J	139/TR/J

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SW8270C	Anthracene	ug/Kg	78.1/TR/J	36.4 ND/U	76.3/TR/J
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	329/TR/J	283/TR/J	201/TR/J
SW8270C	Benzo(a)anthracene	ug/Kg	146/TR/J	100/TR/J	103/TR/J
SW8270C	Benzo(a)pyrene	ug/Kg	178/TR/J	115/TR/J	117/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	230/TR/J	171/TR/J	135/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	31.2 ND/UJ	32.3 ND/U	33.3 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	194/TR/J	99.1/TR/J	135/TR/J
SW8270C	Benzoic acid	ug/Kg	1020/TR/J	1850/= /J	1590/= /J
SW8270C	Benzyl alcohol	ug/Kg	622 ND/UJ	643 ND/U	663 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	171 ND/UJ	177 ND/U	182 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	57.4 ND/UJ	59.4 ND/U	61.2 ND/U
SW8270C	Chrysene	ug/Kg	215/TR/J	145/TR/J	136/TR/J
SW8270C	Di-n-butylphthalate	ug/Kg	535 ND/UJ	584/TR/J	570 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	107 ND/UJ	111 ND/U	114 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	26.2 ND/UJ	27.1 ND/U	27.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	322 ND/UJ	332 ND/U	343 ND/U
SW8270C	Diethylphthalate	ug/Kg	480 ND/UJ	497 ND/U	512 ND/U
SW8270C	Dimethylphthalate	ug/Kg	274 ND/UJ	283 ND/U	292 ND/U
SW8270C	Fluoranthene	ug/Kg	446/= /J	250/TR/J	269/TR/J
SW8270C	Fluorene	ug/Kg	12.8 ND/UJ	13.2 ND/U	108/TR/J
SW8270C	Hexachlorobenzene	ug/Kg	109 ND/UJ	113 ND/U	116 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	35.6 ND/UJ	36.8 ND/U	38.0 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	175 ND/UJ	181 ND/UJ	186 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	68.2 ND/UJ	70.5 ND/U	72.7 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	67.4/TR/J	33.9 ND/U	35.0 ND/U
SW8270C	Isophorone	ug/Kg	25.4 ND/UJ	26.3 ND/U	27.1 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	166/TR/J	272/TR/J	122 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	66.2 ND/UJ	68.4 ND/U	70.5 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	113 ND/UJ	117 ND/U	120 ND/U
SW8270C	Naphthalene	ug/Kg	12.5 ND/UJ	13.0 ND/U	13.4 ND/U
SW8270C	Nitrobenzene	ug/Kg	71.5 ND/UJ	73.9 ND/U	76.2 ND/U
SW8270C	Pentachlorophenol	ug/Kg	278 ND/U	287 ND/U	296 ND/U
SW8270C	Phenanthrene	ug/Kg	108/TR/J	25.3 ND/U	26.1 ND/U
SW8270C	Phenol	ug/Kg	146 ND/U	535/= /J	290/TR/J
SW8270C	Pyrene	ug/Kg	168/TR/J	102/TR/J	102/TR/J
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	44.5 ND/UJ	46.0 ND/U	47.4 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	124 ND/UJ	128 ND/U	132 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA2-SWSD-01 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA2-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA2-SWSD-02-D 10/27/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	140 ND/UJ	145 ND/U	150 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	437 ND/UJ	452 ND/U	466 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	2.06 ND/U	2.87 ND/U	3.31 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.887 ND/U	1.23 ND/U	1.42 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	2.23 ND/U	3.10 ND/U	3.57 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	1.10 ND/U	1.53 ND/U	1.76 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	1.21 ND/U	1.68 ND/U	1.93 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.50 ND/U	3.47 ND/U	4.00 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.33 ND/U	1.84 ND/U	2.13 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.68 ND/UJ	2.33 ND/UJ	2.69 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	2.39 ND/U	3.33 ND/U	3.83 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.925 ND/U	1.29 ND/U	1.48 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.47 ND/U	2.04 ND/U	2.36 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	1.07 ND/U	1.49 ND/U	1.71 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.463 ND/U	0.644 ND/U	0.743 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.62 ND/U	2.25 ND/U	2.60 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.48 ND/U	2.06 ND/U	2.37 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	10.1/TR/J	22.5/=	27.4/=
SW8260B	2-Hexanone	ug/Kg	1.34 ND/U	1.86 ND/U	2.14 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	11.9/TR/J	13.5/TR/J	13.6/TR/J
SW8260B	Acetone	ug/Kg	207/= /B	336/= /B	428/= /B
SW8260B	Benzene	ug/Kg	1.30 ND/U	1.81 ND/U	2.08 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.48 ND/U	2.05 ND/U	2.37 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.36 ND/U	1.89 ND/U	2.18 ND/U
SW8260B	Bromoform	ug/Kg	1.50 ND/U	2.09 ND/U	2.41 ND/U
SW8260B	Bromomethane	ug/Kg	2.14 ND/U	2.97 ND/U	3.43 ND/U
SW8260B	Carbon Disulfide	ug/Kg	2.12 ND/U	2.95 ND/U	3.41 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.89 ND/U	2.62 ND/U	3.02 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.49 ND/U	2.07 ND/U	2.38 ND/U
SW8260B	Chloroethane	ug/Kg	2.35 ND/U	3.26 ND/U	3.76 ND/U
SW8260B	Chloroform	ug/Kg	0.496 ND/U	0.690 ND/U	0.796 ND/U
SW8260B	Chloromethane	ug/Kg	2.14 ND/U	2.97 ND/U	3.43 ND/U
SW8260B	Cyclohexane	ug/Kg	2.45 ND/U	3.41 ND/U	3.93 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.75 ND/U	2.44 ND/U	2.81 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.64 ND/U	3.68 ND/U	4.24 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.989 ND/U	1.38 ND/U	1.59 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	2.02 ND/U	2.81 ND/U	3.24 ND/U
SW8260B	Methyl Acetate	ug/Kg	5.18 ND/UJ	7.21 ND/UJ	19.5/= /J
SW8260B	Methylcyclohexane	ug/Kg	1.14 ND/U	1.59 ND/U	1.83 ND/U

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SW8260B	Methylene Chloride	ug/Kg	1.46 ND/U	2.03 ND/U	2.34 ND/U
SW8260B	Styrene	ug/Kg	1.36 ND/U	1.89 ND/U	2.18 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.39 ND/U	1.93 ND/U	2.22 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	2.21 ND/U	3.08 ND/U	3.55 ND/U
SW8260B	Toluene	ug/Kg	1.17 ND/U	1.62 ND/U	1.95/TR/J
SW8260B	Trichloroethene (TCE)	ug/Kg	1.95 ND/U	2.71 ND/U	3.12 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.652 ND/U	0.907 ND/U	1.05 ND/U
SW8260B	Vinyl chloride	ug/Kg	2.12 ND/U	2.95 ND/U	3.41 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.66 ND/U	2.31 ND/U	2.67 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.30 ND/U	1.81 ND/U	2.09 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.49 ND/U	2.07 ND/U	2.38 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.90 ND/U	2.64 ND/U	3.05 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	1.12 ND/U	1.56 ND/U	1.80 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA2-SWSD-03-A 10/27/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(3-5) 11/5/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	18.9/=	14.0/=	12.6/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0306 ND/U	0.0306 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0297 ND/U	0.0297 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0411 ND/U	0.0411 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0681 ND/U	0.0681 ND/U	0.0691 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0628 ND/U	0.0628 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0490 ND/U	0.0490 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.141 ND/U	0.141 ND/U	0.143 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0612 ND/U	0.0612 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.102 ND/U	0.104 ND/U
SW8330	HMX	mg/Kg	0.0276 ND/U	0.0276 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0526 ND/U	0.0526 ND/U	0.0534 ND/U
SW8330	RDX	mg/Kg	0.0354 ND/U	0.0354 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.0974 ND/UJ	0.0974 ND/U	0.0989 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	8160/=	6140/=	6790/=
SW6010B	Antimony (total)	mg/Kg	0.847/TR/J	0.673/TR/J	0.898/TR/J
SW6010B	Arsenic (total)	mg/Kg	2.90/=	3.09/=	8.11/=
SW6010B	Barium (total)	mg/Kg	50.8/=	31.5/=	23.3/=
SW6010B	Beryllium (total)	mg/Kg	0.387/TR/J	0.171/TR/J	0.277/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.528/TR/J	0.189/TR/J	0.214/TR/J
SW6010B	Calcium (total)	mg/Kg	12900/=	2290/=	1600/=
SW6010B	Chromium (total)	mg/Kg	13.5/=	7.91/= /J	11.2/= /J
SW6010B	Cobalt (total)	mg/Kg	8.10/=	5.18/=	5.78/=
SW6010B	Copper (total)	mg/Kg	18.7/=	7.33/= /J	10.4/= /J
SW6010B	Iron (total)	mg/Kg	18100/=	10200/=	16800/=
SW6010B	Lead (total)	mg/Kg	41.0/=	20.7/= /J	9.44/= /J
SW6010B	Magnesium (total)	mg/Kg	4730/=	1460/=	1430/=
SW6010B	Manganese (total)	mg/Kg	151/= /J	191/=	224/=
SW7471A	Mercury (total)	mg/Kg	0.0620/=	0.0076/TR/J	0.0229/TR/J
SW6010B	Nickel (total)	mg/Kg	19.9/=	10.5/= /J	12.5/= /J
SW6010B	Potassium (total)	mg/Kg	1090/= /J	370/=	439/=
SW6010B	Selenium (total)	mg/Kg	1.39 ND/U	1.14 ND/U	1.34 ND/U
SW6010B	Silver (total)	mg/Kg	0.177/TR/J	0.0932 ND/U	0.109 ND/U
SW6010B	Sodium (total)	mg/Kg	59.0/TR/J	27.6/TR/J	39.8/TR/J
SW6010B	Thallium (total)	mg/Kg	4.73/=	2.83/=	2.70/=
SW6010B	Vanadium (total)	mg/Kg	20.2/=	13.7/=	20.3/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA2-SWSD-03-A 10/27/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(3-5) 11/5/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	72.9/=	35.0/= /J	29.4/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	50.2 ND/U	9.32 ND/U	8.77 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	1890 ND/U	39.1 ND/U	36.8 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	221 ND/U	21.1 ND/U	19.8 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	109 ND/U	20.2 ND/U	19.0 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	377 ND/U	20.6 ND/U	19.4 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	96.4 ND/U	17.9 ND/U	16.8 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	26.9 ND/U	18.5/TR/J	4.70 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	54.1 ND/U	51.2 ND/U	49.8 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.7 ND/U	50.9 ND/U	49.5 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.6 ND/U	34.7 ND/U	33.7 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.9 ND/U	37.8 ND/U	36.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	320 ND/U	303 ND/U	294 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	559 ND/U	529 ND/U	515 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	135 ND/U	127 ND/U	124 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	162 ND/U	154 ND/U	149 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	434 ND/U	411 ND/U	399 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	126 ND/U	120 ND/U	116 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	171 ND/U	162 ND/U	157 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.9 ND/U	37.8 ND/U	36.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	124 ND/U	117 ND/U	114 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.4 ND/U	29.7 ND/U	28.9 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	256 ND/U	242 ND/U	236 ND/U
SW8270C	2-Nitroaniline	ug/Kg	222 ND/U	211 ND/U	205 ND/U
SW8270C	2-Nitrophenol	ug/Kg	328 ND/U	311 ND/UJ	302 ND/UJ
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	702 ND/U	683 ND/U
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	229 ND/U	222 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	220 ND/U	208 ND/U	202 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	166 ND/U	157 ND/U	153 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	449 ND/U	426 ND/U	414 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	197 ND/UJ	191 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	309 ND/U	293 ND/U	284 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	100 ND/U	94.9 ND/U	92.3 ND/U
SW8270C	4-Nitroaniline	ug/Kg	ND/UR	229 ND/UJ	222 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	162 ND/U	154 ND/U	149 ND/U
SW8270C	Acenaphthene	ug/Kg	13.8 ND/U	13.1 ND/U	12.7 ND/U
SW8270C	Acenaphthylene	ug/Kg	251/TR/J	41.5 ND/U	40.4 ND/U
SW8270C	Acetophenone	ug/Kg	95.8/TR/J	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	117/TR/J	30.3 ND/U	29.4 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	212/TR/J	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	151/TR/J	21.9 ND/U	21.2 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	199/TR/J	29.6 ND/U	28.8 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	294/TR/J	28.2 ND/U	27.4 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	86.4/TR/J	26.9 ND/U	26.1 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	198/TR/J	32.0 ND/U	31.1 ND/U
SW8270C	Benzoic acid	ug/Kg	1040/= /J	471 ND/U	458 ND/U
SW8270C	Benzyl alcohol	ug/Kg	565 ND/U	535 ND/U	520 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	155 ND/U	147 ND/U	143 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	52.1 ND/U	49.4 ND/U	48.0 ND/U
SW8270C	Chrysene	ug/Kg	215/TR/J	17.3 ND/U	16.8 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	485 ND/U	460 ND/U	447 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	97.3 ND/U	92.2 ND/U	89.6 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.8 ND/U	22.5 ND/U	21.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	292 ND/U	277 ND/U	269 ND/U
SW8270C	Diethylphthalate	ug/Kg	436 ND/U	413 ND/U	402 ND/U
SW8270C	Dimethylphthalate	ug/Kg	249 ND/U	236 ND/U	229 ND/U
SW8270C	Fluoranthene	ug/Kg	396/= /J	18.8 ND/U	18.3 ND/U
SW8270C	Fluorene	ug/Kg	11.6 ND/U	11.0 ND/U	10.7 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	99.0 ND/U	93.8 ND/U	91.2 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.3 ND/U	30.6 ND/U	29.8 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	159 ND/UJ	150 ND/UJ	146 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.9 ND/U	58.6 ND/U	57.0 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	66.6/TR/J	28.2 ND/U	27.4 ND/U
SW8270C	Isophorone	ug/Kg	23.1 ND/U	21.9 ND/U	21.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	104 ND/U	98.4 ND/U	95.6 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	60.1 ND/U	56.9 ND/U	55.3 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	102 ND/U	97.0 ND/U	94.3 ND/U
SW8270C	Naphthalene	ug/Kg	11.4 ND/U	10.8 ND/U	10.5 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.9 ND/U	61.5 ND/U	59.8 ND/U
SW8270C	Pentachlorophenol	ug/Kg	252 ND/U	239 ND/U	232 ND/U
SW8270C	Phenanthrene	ug/Kg	71.3/TR/J	21.1 ND/U	20.5 ND/U
SW8270C	Phenol	ug/Kg	132 ND/U	125 ND/U	122 ND/U
SW8270C	Pyrene	ug/Kg	166/TR/J	16.3 ND/U	15.8 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.4 ND/U	38.2 ND/U	37.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	113 ND/U	107 ND/U	104 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA2-SWSD-03-A 10/27/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(3-5) 11/5/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	127 ND/U	121 ND/U	117 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	396 ND/U	376 ND/U	365 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.70 ND/U	1.46 ND/U	1.48 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.730 ND/U	0.625 ND/U	0.635 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.83 ND/U	1.57 ND/U	1.60 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.906 ND/U	0.776 ND/U	0.788 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.993 ND/U	0.851 ND/U	0.863 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.06 ND/U	1.76 ND/U	1.79 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.09 ND/U	0.935 ND/U	0.950 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.38 ND/UJ	1.18 ND/U	1.20 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.97 ND/U	1.69 ND/U	1.71 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.762 ND/U	0.653 ND/U	0.662 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.21 ND/U	1.04 ND/U	1.05 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.881 ND/U	0.754 ND/U	0.766 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.382 ND/U	0.327 ND/U	0.332 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.33 ND/U	1.14 ND/U	1.16 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.22 ND/U	1.04 ND/U	1.06 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	8.44/TR/J	1.19 ND/U	1.21 ND/U
SW8260B	2-Hexanone	ug/Kg	1.10 ND/U	0.943 ND/U	0.957 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.71/TR/J	1.03 ND/U	1.05 ND/U
SW8260B	Acetone	ug/Kg	2.04 ND/U	1.75 ND/U	1.78 ND/U
SW8260B	Benzene	ug/Kg	2.58/TR/J	0.917 ND/U	0.930 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.22 ND/U	1.04 ND/U	1.06 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.12 ND/U	0.960 ND/U	0.974 ND/U
SW8260B	Bromoform	ug/Kg	1.24 ND/U	1.06 ND/U	1.07 ND/U
SW8260B	Bromomethane	ug/Kg	1.76 ND/U	1.51 ND/U	1.53 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.75 ND/U	1.50 ND/U	1.52 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.55 ND/U	1.33 ND/U	1.35 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.22 ND/U	1.05 ND/U	1.06 ND/U
SW8260B	Chloroethane	ug/Kg	1.93 ND/U	1.66 ND/U	1.68 ND/U
SW8260B	Chloroform	ug/Kg	0.409 ND/U	0.350 ND/U	0.355 ND/U
SW8260B	Chloromethane	ug/Kg	1.76 ND/U	1.51 ND/U	1.53 ND/U
SW8260B	Cyclohexane	ug/Kg	4.13/TR/J	1.73 ND/U	1.75 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.44 ND/U	1.24 ND/U	1.25 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.18 ND/U	1.86 ND/U	1.89 ND/U
SW8260B	Ethylbenzene	ug/Kg	2.11/TR/J	0.698 ND/U	0.708 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.66 ND/U	1.42 ND/U	1.45 ND/U
SW8260B	Methyl Acetate	ug/Kg	4.27 ND/UJ	3.66 ND/UJ	3.71 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	6.69/=	0.807 ND/U	0.819 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA2-SWSD-03-A 10/27/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-16-A(3-5) 11/5/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.20 ND/U	1.03 ND/U	1.05 ND/U
SW8260B	Styrene	ug/Kg	1.12 ND/U	0.957 ND/U	0.972 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.14 ND/U	0.977 ND/U	0.992 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.82 ND/U	1.56 ND/U	1.58 ND/U
SW8260B	Toluene	ug/Kg	7.13/=	0.822 ND/U	0.835 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.60 ND/U	1.37 ND/U	1.39 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.537 ND/U	0.460 ND/U	0.467 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.75 ND/U	1.50 ND/U	1.52 ND/U
SW8260B	Xylenes, Total	ug/Kg	5.09/TR/J	1.17 ND/U	1.19 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.07 ND/U	0.920 ND/U	0.934 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.22 ND/U	1.05 ND/U	1.06 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.57 ND/U	1.34 ND/U	1.36 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.922 ND/U	0.790 ND/U	0.802 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-16-A(8-10) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-D(0.5-1.5) 11/9/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	19.4/=	13.3/=	18.4/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0308 ND/U	0.0291 ND/U	0.0309 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0298 ND/U	0.0281 ND/U	0.0300 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0413 ND/U	0.0390 ND/U	0.0415 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0684 ND/U	0.0646 ND/U	0.0688 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0631 ND/U	0.0595 ND/U	0.0634 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0492 ND/U	0.0464 ND/U	0.0495 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.0981 ND/U	0.104 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.134 ND/U	0.142 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0615 ND/U	0.0580 ND/U	0.0618 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.0972 ND/U	0.103 ND/U
SW8330	HMX	mg/Kg	0.0277 ND/U	0.0262 ND/U	0.0279 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0529 ND/U	0.0499 ND/U	0.0531 ND/U
SW8330	RDX	mg/Kg	0.0355 ND/U	0.0336 ND/U	0.0357 ND/U
SW8330	Tetryl	mg/Kg	0.0979 ND/U	0.0924 ND/UJ	0.0984 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7130/=	2430/=	9220/=
SW6010B	Antimony (total)	mg/Kg	0.803 ND/U	3.14 ND/UJ	0.808 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	0.662 ND/U	7.00/TR/J	11.8/=
SW6010B	Barium (total)	mg/Kg	63.8/=	18.1/= /J	62.3/= /J
SW6010B	Beryllium (total)	mg/Kg	0.280/TR/J	0.298/TR/J	0.606/=
SW6010B	Cadmium (total)	mg/Kg	0.348/TR/J	0.418/TR/J	0.579/TR/J
SW6010B	Calcium (total)	mg/Kg	56400/=	291000/=	10500/=
SW6010B	Chromium (total)	mg/Kg	12.7/= /J	5.90/=	14.2/=
SW6010B	Cobalt (total)	mg/Kg	8.70/=	1.90/TR/J	9.04/= /J
SW6010B	Copper (total)	mg/Kg	19.2/= /J	8.06/TR/J	20.0/=
SW6010B	Iron (total)	mg/Kg	18200/=	7460/=	22900/=
SW6010B	Lead (total)	mg/Kg	10.9/= /J	8.15/=	33.8/=
SW6010B	Magnesium (total)	mg/Kg	18100/=	30600/=	3460/=
SW6010B	Manganese (total)	mg/Kg	430/=	338/= /J	276/= /J
SW7471A	Mercury (total)	mg/Kg	0.0048 ND/U	0.0252/TR/J	0.0231/TR/J
SW6010B	Nickel (total)	mg/Kg	21.7/= /J	7.71/TR/J	21.3/= /J
SW6010B	Potassium (total)	mg/Kg	1260/=	647/TR/J	949/= /J
SW6010B	Selenium (total)	mg/Kg	2.90 ND/U	2.27 ND/U	1.46 ND/U
SW6010B	Silver (total)	mg/Kg	0.278/TR/J	0.462 ND/U	0.119 ND/U
SW6010B	Sodium (total)	mg/Kg	118/TR/J	180/TR/J	47.7/TR/J
SW6010B	Thallium (total)	mg/Kg	1.23 ND/U	4.81 ND/U	1.24 ND/U
SW6010B	Vanadium (total)	mg/Kg	19.3/=	9.06/TR/J	25.7/= /J

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SW6010B	Zinc (total)	mg/Kg	48.9/= /J	6.48/TR/J	91.3/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.57 ND/U	46.8 ND/U	50.1 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	40.1 ND/U	196 ND/U	210 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	21.6 ND/U	106 ND/U	113 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	20.7 ND/U	101 ND/U	108 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.2 ND/U	104 ND/U	111 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.4 ND/U	247/TR/J	268/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.13 ND/U	579/TR/J	765/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	55.1 ND/U	50.7 ND/U	53.1 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	54.7 ND/U	50.4 ND/U	52.7 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	37.3 ND/U	34.4 ND/U	36.0 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	40.6 ND/U	37.4 ND/U	39.1 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	326 ND/U	300 ND/U	314 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	569 ND/U	524 ND/U	548 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	137 ND/U	126 ND/U	132 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	165 ND/U	152 ND/UJ	159 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	442 ND/U	407 ND/U	426 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	129 ND/U	118 ND/U	124 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	174 ND/U	160 ND/U	167 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	40.6 ND/U	37.4 ND/U	39.1 ND/U
SW8270C	2-Chlorophenol	ug/Kg	126 ND/U	116 ND/U	121 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	32.0 ND/U	29.4 ND/U	30.8 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	261 ND/U	240 ND/U	251 ND/U
SW8270C	2-Nitroaniline	ug/Kg	226 ND/U	208 ND/U	218 ND/U
SW8270C	2-Nitrophenol	ug/Kg	334 ND/UJ	308 ND/U	322 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	755 ND/U	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	246 ND/U	227 ND/UJ	237 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	224 ND/U	206 ND/U	216 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	169 ND/U	156 ND/U	163 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	458 ND/U	421 ND/U	441 ND/U
SW8270C	4-Chloroaniline	ug/Kg	212 ND/UJ	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	315 ND/U	290 ND/U	303 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	102 ND/U	94.0 ND/U	98.3 ND/U
SW8270C	4-Nitroaniline	ug/Kg	246 ND/UJ	227 ND/UJ	237 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	165 ND/U	152 ND/U	159 ND/U
SW8270C	Acenaphthene	ug/Kg	14.1 ND/U	13.0 ND/U	13.6 ND/U
SW8270C	Acenaphthylene	ug/Kg	44.7 ND/U	41.1 ND/U	43.0 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	32.6 ND/U	30.0 ND/U	31.4 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.5 ND/U	21.6 ND/U	22.6 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	31.8 ND/U	29.3 ND/U	63.8/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	30.4 ND/U	59.3/TR/J	88.4/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.9 ND/U	26.6 ND/U	106/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	34.4 ND/U	31.7 ND/U	33.1 ND/U
SW8270C	Benzoic acid	ug/Kg	507 ND/U	467 ND/U	488 ND/U
SW8270C	Benzyl alcohol	ug/Kg	575 ND/U	530 ND/U	554 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	158 ND/U	145 ND/U	637/= /J
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	53.1 ND/U	48.9 ND/U	51.2 ND/U
SW8270C	Chrysene	ug/Kg	18.6 ND/U	17.1 ND/U	82.9/TR/J
SW8270C	Di-n-butylphthalate	ug/Kg	495 ND/U	455 ND/U	476 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	99.2 ND/U	91.3 ND/U	95.5 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	24.2 ND/U	22.3 ND/U	23.3 ND/U
SW8270C	Dibenzofuran	ug/Kg	297 ND/U	274 ND/U	286 ND/U
SW8270C	Diethylphthalate	ug/Kg	444 ND/U	409 ND/U	428 ND/U
SW8270C	Dimethylphthalate	ug/Kg	253 ND/U	233 ND/U	244 ND/U
SW8270C	Fluoranthene	ug/Kg	20.2 ND/U	18.6 ND/U	100/TR/J
SW8270C	Fluorene	ug/Kg	11.8 ND/U	10.9 ND/U	11.4 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	101 ND/U	92.9 ND/U	97.1 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.9 ND/U	30.3 ND/U	31.7 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	162 ND/UJ	149 ND/UJ	156 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	63.0 ND/U	58.0 ND/U	60.7 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	30.4 ND/U	27.9 ND/U	99.4/TR/J
SW8270C	Isophorone	ug/Kg	23.5 ND/U	21.6 ND/U	22.6 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	106 ND/U	97.4 ND/U	102 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	61.2 ND/U	56.3 ND/U	58.9 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	104 ND/U	96.0 ND/U	100 ND/U
SW8270C	Naphthalene	ug/Kg	11.6 ND/U	10.7 ND/U	11.2 ND/U
SW8270C	Nitrobenzene	ug/Kg	66.1 ND/U	60.9 ND/U	63.7 ND/U
SW8270C	Pentachlorophenol	ug/Kg	257 ND/U	237 ND/U	248 ND/U
SW8270C	Phenanthrene	ug/Kg	22.6 ND/U	20.8 ND/U	21.8 ND/U
SW8270C	Phenol	ug/Kg	135 ND/U	124 ND/U	130 ND/U
SW8270C	Pyrene	ug/Kg	17.5 ND/U	16.1 ND/U	80.3/TR/J
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	41.1 ND/U	37.9 ND/U	39.6 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	115 ND/U	106 ND/U	111 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-16-A(8-10) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-D(0.5-1.5) 11/9/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	130 ND/U	119 ND/U	125 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	404 ND/U	372 ND/U	389 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.42 ND/U	1.34 ND/U	1.26 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.608 ND/UJ	0.576 ND/U	0.540 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.53 ND/U	1.45 ND/U	1.36 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.755 ND/U	0.715 ND/U	0.671 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.827 ND/U	0.783 ND/U	0.735 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.71 ND/U	1.62 ND/U	1.52 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.910 ND/UJ	0.861 ND/U	0.808 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.15 ND/UJ	1.09 ND/U	1.02 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.64 ND/UJ	1.55 ND/U	1.46 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.635 ND/U	0.601 ND/U	0.564 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.01 ND/UJ	0.954 ND/U	0.895 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.733 ND/U	0.694 ND/U	0.652 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.318 ND/U	0.301 ND/U	0.282 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.11 ND/UJ	1.05 ND/U	0.987 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.01 ND/UJ	0.961 ND/U	0.901 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.16 ND/U	1.10 ND/U	4.62/TR/J
SW8260B	2-Hexanone	ug/Kg	0.917 ND/U	0.868 ND/U	0.815 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.01 ND/UJ	0.952 ND/U	0.893 ND/U
SW8260B	Acetone	ug/Kg	1.70 ND/U	1.61 ND/U	1.51 ND/U
SW8260B	Benzene	ug/Kg	2.30/TR/J	0.844 ND/U	0.792 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.01 ND/U	0.959 ND/U	0.900 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.933 ND/U	0.883 ND/U	0.829 ND/U
SW8260B	Bromoform	ug/Kg	1.03 ND/U	0.974 ND/U	0.914 ND/U
SW8260B	Bromomethane	ug/Kg	1.47 ND/U	1.39 ND/U	1.30 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.46 ND/U	1.38 ND/U	1.29 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.29 ND/U	1.22 ND/U	1.15 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.02 ND/U	0.964 ND/U	0.905 ND/U
SW8260B	Chloroethane	ug/Kg	1.61 ND/U	1.52 ND/U	1.43 ND/U
SW8260B	Chloroform	ug/Kg	0.340 ND/U	0.322 ND/U	0.302 ND/U
SW8260B	Chloromethane	ug/Kg	1.47 ND/U	1.39 ND/U	1.30 ND/U
SW8260B	Cyclohexane	ug/Kg	4.67/TR/J	1.59 ND/U	1.49 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.20 ND/U	1.14 ND/U	1.07 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.81 ND/U	1.72 ND/U	1.61 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.678 ND/U	0.642 ND/U	0.603 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.39 ND/UJ	1.31 ND/U	1.23 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.56 ND/UJ	3.37 ND/UJ	3.16 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	4.38/TR/J	1.60/TR/J	0.741/TR/J

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-16-A(8-10) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-17-D(0.5-1.5) 11/9/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.00 ND/U	0.949 ND/U	0.891 ND/U
SW8260B	Styrene	ug/Kg	0.931 ND/U	0.881 ND/U	0.827 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.950 ND/U	0.900 ND/U	0.844 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.52 ND/U	1.44 ND/U	1.35 ND/U
SW8260B	Toluene	ug/Kg	3.18/TR/J	1.61/TR/J	0.710 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.33 ND/U	1.26 ND/U	1.19 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.447 ND/U	0.423 ND/U	0.397 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.46 ND/U	1.38 ND/U	1.29 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.37/TR/J	1.08 ND/U	1.01 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.894 ND/U	0.847 ND/U	0.795 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.02 ND/U	0.964 ND/U	0.905 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.30 ND/U	1.23 ND/U	1.16 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.768 ND/U	0.727 ND/U	0.682 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-17-A(3-5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(0.5-1.5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(3-5) 11/4/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	17.2/=	10.6/=	15.4/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0299 ND/U	0.0296 ND/U	0.0291 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0289 ND/U	0.0287 ND/U	0.0281 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0401 ND/U	0.0397 ND/U	0.0390 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0664 ND/U	0.0658 ND/U	0.0646 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0613 ND/U	0.0607 ND/U	0.0595 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0478 ND/U	0.0473 ND/U	0.0464 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.101 ND/U	0.100 ND/U	0.0981 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.137 ND/U	0.136 ND/U	0.134 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0597 ND/U	0.0591 ND/U	0.0580 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.100 ND/U	0.0990 ND/U	0.0972 ND/U
SW8330	HMX	mg/Kg	0.0269 ND/U	0.0267 ND/U	0.0262 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0513 ND/U	0.0509 ND/U	0.0499 ND/U
SW8330	RDX	mg/Kg	0.0345 ND/U	0.0342 ND/U	0.0336 ND/U
SW8330	Tetryl	mg/Kg	0.0951 ND/UJ	0.0942 ND/U	0.0924 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	8930/=	7540/=	11200/=
SW6010B	Antimony (total)	mg/Kg	0.797 ND/UJ	0.492 ND/UJ	1.09/TR/J
SW6010B	Arsenic (total)	mg/Kg	18.3/=	5.09/=	6.67/=
SW6010B	Barium (total)	mg/Kg	73.5/= /J	45.0/=	74.8/=
SW6010B	Beryllium (total)	mg/Kg	0.622/=	0.0454 ND/U	0.0550 ND/U
SW6010B	Cadmium (total)	mg/Kg	0.557/TR/J	0.0378 ND/U	0.0458 ND/U
SW6010B	Calcium (total)	mg/Kg	42000/=	21000/= /J	2740/= /J
SW6010B	Chromium (total)	mg/Kg	15.3/=	11.1/=	19.3/=
SW6010B	Cobalt (total)	mg/Kg	12.0/= /J	8.63/=	6.73/=
SW6010B	Copper (total)	mg/Kg	28.5/=	13.4/=	23.3/=
SW6010B	Iron (total)	mg/Kg	28200/=	16700/=	24700/=
SW6010B	Lead (total)	mg/Kg	15.2/=	11.8/=	10.1/=
SW6010B	Magnesium (total)	mg/Kg	14700/=	6770/= /J	2970/= /J
SW6010B	Manganese (total)	mg/Kg	743/= /J	429/= /J	191/= /J
SW7471A	Mercury (total)	mg/Kg	0.0144/TR/J	0.0128/TR/J	0.0430/=
SW6010B	Nickel (total)	mg/Kg	35.1/= /J	16.4/=	19.1/=
SW6010B	Potassium (total)	mg/Kg	1040/= /J	618/= /J	750/= /J
SW6010B	Selenium (total)	mg/Kg	1.44 ND/U	1.78 ND/U	1.08 ND/U
SW6010B	Silver (total)	mg/Kg	0.117 ND/U	0.0724 ND/U	0.0878 ND/U
SW6010B	Sodium (total)	mg/Kg	95.4/TR/J	63.3/TR/J	46.5/TR/J
SW6010B	Thallium (total)	mg/Kg	1.22 ND/U	2.94/=	2.62/=
SW6010B	Vanadium (total)	mg/Kg	29.1/= /J	20.0/=	27.3/=

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SW6010B	Zinc (total)	mg/Kg	60.5/= /J	35.2/=	48.3/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.19 ND/U	86.4 ND/U	9.28 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	38.5 ND/U	362 ND/U	38.9 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	20.8 ND/U	195 ND/U	21.0 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	19.9 ND/U	187 ND/U	20.1 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	20.3 ND/U	191 ND/U	20.5 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	17.7 ND/U	558/TR/J	17.8 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	4.93 ND/U	782/TR/J	4.97 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	53.9 ND/U	50.0 ND/U	53.0 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.5 ND/U	49.7 ND/U	52.6 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.5 ND/U	33.9 ND/U	35.9 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.8 ND/U	36.9 ND/U	39.1 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	319 ND/U	296 ND/U	313 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	557 ND/U	517 ND/U	547 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	134 ND/U	125 ND/U	132 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	162 ND/UJ	150 ND/U	159 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	432 ND/U	401 ND/U	425 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	126 ND/U	117 ND/U	124 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	170 ND/U	158 ND/U	167 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.8 ND/U	36.9 ND/U	39.1 ND/U
SW8270C	2-Chlorophenol	ug/Kg	123 ND/U	115 ND/U	121 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.3 ND/U	29.0 ND/U	30.7 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	255 ND/U	237 ND/U	251 ND/U
SW8270C	2-Nitroaniline	ug/Kg	222 ND/U	206 ND/U	218 ND/U
SW8270C	2-Nitrophenol	ug/Kg	327 ND/U	304 ND/U	321 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	686 ND/UJ	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	241 ND/UJ	223 ND/U	237 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	219 ND/U	203 ND/U	215 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	165 ND/U	153 ND/U	162 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	448 ND/U	416 ND/U	440 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	308 ND/U	286 ND/U	302 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	99.9 ND/U	92.7 ND/U	98.1 ND/U
SW8270C	4-Nitroaniline	ug/Kg	241 ND/UJ	223 ND/U	237 ND/U
SW8270C	4-Nitrophenol	ug/Kg	162 ND/U	150 ND/U	159 ND/U
SW8270C	Acenaphthene	ug/Kg	13.8 ND/U	12.8 ND/U	13.5 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.7 ND/U	40.6 ND/U	43.0 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.9 ND/U	29.6 ND/U	31.3 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.0 ND/U	247/TR/J	22.6 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	31.1 ND/U	249/TR/J	30.6 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.7 ND/U	244/TR/J	29.2 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.3 ND/U	151/TR/J	27.8 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.7 ND/U	314/TR/J	33.1 ND/U
SW8270C	Benzoic acid	ug/Kg	496 ND/U	460 ND/U	487 ND/U
SW8270C	Benzyl alcohol	ug/Kg	563 ND/U	523 ND/U	553 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	901/=	143 ND/U	152 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	52.0 ND/U	48.3 ND/U	51.1 ND/U
SW8270C	Chrysene	ug/Kg	18.2 ND/U	298/TR/J	17.9 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	20700/=	449 ND/U	475 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	97.0 ND/U	90.1 ND/U	95.3 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.7 ND/U	22.0 ND/U	23.3 ND/U
SW8270C	Dibenzofuran	ug/Kg	291 ND/U	270 ND/U	286 ND/U
SW8270C	Diethylphthalate	ug/Kg	435 ND/U	404 ND/U	427 ND/U
SW8270C	Dimethylphthalate	ug/Kg	248 ND/U	230 ND/U	244 ND/U
SW8270C	Fluoranthene	ug/Kg	19.8 ND/U	378/=	19.4 ND/U
SW8270C	Fluorene	ug/Kg	11.6 ND/U	10.8 ND/U	11.4 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	98.7 ND/U	91.6 ND/U	97.0 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.2 ND/U	29.9 ND/U	31.7 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	158 ND/UJ	147 ND/UJ	155 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.7 ND/U	57.3 ND/U	60.6 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.7 ND/U	128/TR/J	29.2 ND/U
SW8270C	Isophorone	ug/Kg	23.0 ND/U	21.3 ND/U	22.6 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	103 ND/U	96.1 ND/U	102 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	59.9 ND/U	55.6 ND/U	58.8 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	102 ND/U	94.7 ND/U	100 ND/U
SW8270C	Naphthalene	ug/Kg	11.3 ND/U	10.5 ND/U	11.1 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.7 ND/U	60.0 ND/U	63.5 ND/U
SW8270C	Pentachlorophenol	ug/Kg	251 ND/U	233 ND/U	247 ND/U
SW8270C	Phenanthrene	ug/Kg	22.2 ND/U	86.1/TR/J	21.8 ND/U
SW8270C	Phenol	ug/Kg	132 ND/U	122 ND/U	129 ND/U
SW8270C	Pyrene	ug/Kg	17.1 ND/U	323/TR/J	16.8 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.2 ND/U	37.4 ND/U	39.5 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	112 ND/U	104 ND/U	110 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-17-A(3-5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(0.5-1.5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(3-5) 11/4/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	127 ND/U	118 ND/U	125 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	395 ND/U	367 ND/U	388 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.46 ND/U	1.60 ND/U	1.42 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.626 ND/U	0.687 ND/U	0.609 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.57 ND/U	1.73 ND/U	1.53 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.777 ND/U	0.853 ND/U	0.756 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.851 ND/U	0.934 ND/U	0.829 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.76 ND/U	1.93 ND/U	1.71 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.936 ND/U	1.03 ND/U	0.912 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.18 ND/U	1.30 ND/U	1.15 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.69 ND/U	1.85 ND/U	1.64 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.653 ND/U	0.717 ND/U	0.636 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.04 ND/U	1.14 ND/U	1.01 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.755 ND/U	0.829 ND/U	0.735 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.327 ND/U	0.359 ND/U	0.318 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.14 ND/U	1.25 ND/U	1.11 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.04 ND/U	1.15 ND/U	1.02 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.20 ND/U	12.3/=	5.94/TR/J
SW8260B	2-Hexanone	ug/Kg	0.944 ND/U	1.04 ND/U	0.919 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.03 ND/U	1.14 ND/U	1.01 ND/U
SW8260B	Acetone	ug/Kg	1.75 ND/U	1.92 ND/U	1.70 ND/UJ
SW8260B	Benzene	ug/Kg	6.74/=	3.75/TR/J	0.893 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.04 ND/U	1.14 ND/U	1.01 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.960 ND/U	1.05 ND/U	0.935 ND/U
SW8260B	Bromoform	ug/Kg	1.06 ND/U	1.16 ND/U	1.03 ND/U
SW8260B	Bromomethane	ug/Kg	1.51 ND/U	1.66 ND/U	1.47 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.50 ND/U	36.2/=	1.46 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.33 ND/U	1.46 ND/U	1.30 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.05 ND/U	1.15 ND/U	1.02 ND/U
SW8260B	Chloroethane	ug/Kg	1.66 ND/U	1.82 ND/U	1.61 ND/U
SW8260B	Chloroform	ug/Kg	0.350 ND/U	0.384 ND/U	0.341 ND/U
SW8260B	Chloromethane	ug/Kg	1.51 ND/U	1.66 ND/U	1.47 ND/U
SW8260B	Cyclohexane	ug/Kg	11.3/=	6.80/=	1.68 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.24 ND/U	1.36 ND/U	1.20 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.87 ND/U	2.05 ND/U	1.82 ND/U
SW8260B	Ethylbenzene	ug/Kg	3.96/TR/J	1.59/TR/J	0.680 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.43 ND/U	1.57 ND/U	1.39 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.66 ND/UJ	4.02 ND/UJ	3.56 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	12.9/=	7.99/=	0.786 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-17-A(3-5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(0.5-1.5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-18-A(3-5) 11/4/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.03 ND/U	1.13 ND/U	1.00 ND/U
SW8260B	Styrene	ug/Kg	0.958 ND/U	1.05 ND/U	0.933 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.978 ND/U	1.07 ND/U	0.952 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.56 ND/U	1.71 ND/U	1.52 ND/U
SW8260B	Toluene	ug/Kg	15.8/=	7.40/=	0.801 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.37 ND/U	1.51 ND/U	1.34 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.460 ND/U	0.505 ND/U	0.448 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.50 ND/U	1.65 ND/U	1.46 ND/U
SW8260B	Xylenes, Total	ug/Kg	10.8/=	4.56/TR/J	1.14 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.920 ND/U	1.01 ND/U	0.896 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.05 ND/U	1.15 ND/U	1.02 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.34 ND/U	1.47 ND/U	1.31 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.790 ND/U	0.868 ND/U	0.770 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-18-A(8-10) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(3-5) 11/9/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	19.2/=	15.7/=	16.8/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0305 ND/U	0.0298 ND/U	0.0298 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0295 ND/U	0.0288 ND/U	0.0288 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0409 ND/U	0.0399 ND/U	0.0399 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0677 ND/U	0.0661 ND/U	0.0661 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0625 ND/U	0.0610 ND/U	0.0610 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0487 ND/U	0.0476 ND/U	0.0476 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.100 ND/U	0.100 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.140 ND/U	0.137 ND/U	0.137 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0609 ND/U	0.0594 ND/U	0.0594 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.0995 ND/U	0.0995 ND/U
SW8330	HMX	mg/Kg	0.0275 ND/U	0.0268 ND/U	0.0268 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0524 ND/U	0.0511 ND/U	0.0511 ND/U
SW8330	RDX	mg/Kg	0.0352 ND/U	0.0344 ND/U	0.0344 ND/U
SW8330	Tetryl	mg/Kg	0.0970 ND/U	0.0946 ND/UJ	0.0946 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9610/=	8090/=	7990/=
SW6010B	Antimony (total)	mg/Kg	0.758 ND/UJ	0.753 ND/UJ	0.808 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	0.718/TR/J	11.3/=	5.98/=
SW6010B	Barium (total)	mg/Kg	51.8/=	55.4/= /J	56.4/= /J
SW6010B	Beryllium (total)	mg/Kg	0.0699 ND/U	0.479/TR/J	0.546/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.0582 ND/U	0.541/TR/J	0.417/TR/J
SW6010B	Calcium (total)	mg/Kg	49000/= /J	54500/=	3420/=
SW6010B	Chromium (total)	mg/Kg	15.4/=	14.0/=	14.3/=
SW6010B	Cobalt (total)	mg/Kg	6.98/=	10.2/= /J	4.73/= /J
SW6010B	Copper (total)	mg/Kg	21.4/=	21.0/=	19.2/=
SW6010B	Iron (total)	mg/Kg	18300/=	21800/=	17600/=
SW6010B	Lead (total)	mg/Kg	11.8/=	30.5/=	14.2/=
SW6010B	Magnesium (total)	mg/Kg	16700/= /J	15700/=	2740/=
SW6010B	Manganese (total)	mg/Kg	300/= /J	466/= /J	137/= /J
SW7471A	Mercury (total)	mg/Kg	0.0064 ND/U	0.0144/TR/J	0.0314/TR/J
SW6010B	Nickel (total)	mg/Kg	22.9/=	27.2/= /J	18.6/= /J
SW6010B	Potassium (total)	mg/Kg	1850/= /J	1160/= /J	917/= /J
SW6010B	Selenium (total)	mg/Kg	2.74 ND/U	1.36 ND/U	1.46 ND/U
SW6010B	Silver (total)	mg/Kg	0.112 ND/U	0.111 ND/U	0.119 ND/U
SW6010B	Sodium (total)	mg/Kg	128/TR/J	106/TR/J	63.6/TR/J
SW6010B	Thallium (total)	mg/Kg	1.16 ND/U	1.15 ND/U	1.24 ND/U
SW6010B	Vanadium (total)	mg/Kg	21.5/=	21.4/= /J	19.9/= /J

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-18-A(8-10) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(3-5) 11/9/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	56.0/=	58.2/= /J	53.3/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.82 ND/U	480 ND/U	9.29 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	41.2 ND/U	2010 ND/U	38.9 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	22.2 ND/U	1090 ND/U	21.0 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	21.2 ND/U	1040 ND/U	20.1 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.7 ND/U	1060 ND/U	20.5 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.9 ND/U	4180/TR/J	47.6/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.26 ND/U	4660/TR/J	115/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	55.1 ND/U	52.9 ND/U	52.4 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	54.7 ND/U	52.5 ND/U	52.1 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	37.3 ND/U	35.8 ND/U	35.5 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	40.6 ND/U	39.0 ND/U	38.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	326 ND/U	312 ND/U	310 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	569 ND/U	546 ND/U	542 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	137 ND/U	132 ND/U	131 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	165 ND/U	159 ND/UJ	157 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	442 ND/U	424 ND/U	421 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	129 ND/U	123 ND/U	122 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	174 ND/U	167 ND/U	165 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	40.6 ND/U	39.0 ND/U	38.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	126 ND/U	121 ND/U	120 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	32.0 ND/U	30.7 ND/U	30.4 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	261 ND/U	250 ND/U	248 ND/U
SW8270C	2-Nitroaniline	ug/Kg	226 ND/U	217 ND/U	216 ND/U
SW8270C	2-Nitrophenol	ug/Kg	334 ND/U	321 ND/U	318 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	755 ND/UJ	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	246 ND/U	236 ND/UJ	234 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	224 ND/U	215 ND/U	213 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	169 ND/U	162 ND/U	161 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	458 ND/U	439 ND/U	436 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	315 ND/U	302 ND/U	299 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	102 ND/U	98.0 ND/U	97.2 ND/U
SW8270C	4-Nitroaniline	ug/Kg	246 ND/U	236 ND/UJ	234 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	165 ND/U	159 ND/U	157 ND/U
SW8270C	Acenaphthene	ug/Kg	14.1 ND/U	13.5 ND/U	13.4 ND/U
SW8270C	Acenaphthylene	ug/Kg	44.7 ND/U	42.9 ND/U	42.5 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	32.6 ND/U	31.2 ND/U	31.0 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	23.5 ND/U	22.6 ND/U	22.4 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	31.8 ND/U	30.5 ND/U	30.3 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	30.4 ND/U	29.1 ND/U	28.9 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.9 ND/U	27.7 ND/U	27.5 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	34.4 ND/U	33.0 ND/U	32.7 ND/U
SW8270C	Benzoic acid	ug/Kg	507 ND/U	486 ND/U	482 ND/U
SW8270C	Benzyl alcohol	ug/Kg	575 ND/U	552 ND/U	548 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	158 ND/U	152 ND/U	150 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	53.1 ND/U	51.0 ND/U	50.6 ND/U
SW8270C	Chrysene	ug/Kg	18.6 ND/U	17.9 ND/U	17.7 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	495 ND/U	474 ND/U	471 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	99.2 ND/U	95.1 ND/U	94.4 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	24.2 ND/U	23.3 ND/U	23.1 ND/U
SW8270C	Dibenzofuran	ug/Kg	297 ND/U	285 ND/U	283 ND/U
SW8270C	Diethylphthalate	ug/Kg	444 ND/U	426 ND/U	423 ND/U
SW8270C	Dimethylphthalate	ug/Kg	253 ND/U	243 ND/U	241 ND/U
SW8270C	Fluoranthene	ug/Kg	20.2 ND/U	19.4 ND/U	19.2 ND/U
SW8270C	Fluorene	ug/Kg	11.8 ND/U	11.4 ND/U	11.3 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	101 ND/U	96.8 ND/U	96.0 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.9 ND/U	31.6 ND/U	31.3 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	162 ND/UJ	155 ND/UJ	154 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	63.0 ND/U	60.5 ND/U	60.0 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	30.4 ND/U	29.1 ND/U	28.9 ND/U
SW8270C	Isophorone	ug/Kg	23.5 ND/U	22.6 ND/U	22.4 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	106 ND/U	101 ND/U	101 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	61.2 ND/U	58.7 ND/U	58.3 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	104 ND/U	100 ND/U	99.3 ND/U
SW8270C	Naphthalene	ug/Kg	11.6 ND/U	11.1 ND/U	11.0 ND/U
SW8270C	Nitrobenzene	ug/Kg	66.1 ND/U	63.4 ND/U	62.9 ND/U
SW8270C	Pentachlorophenol	ug/Kg	257 ND/U	247 ND/U	245 ND/U
SW8270C	Phenanthrene	ug/Kg	22.6 ND/U	21.7 ND/U	21.6 ND/U
SW8270C	Phenol	ug/Kg	135 ND/U	129 ND/U	128 ND/U
SW8270C	Pyrene	ug/Kg	17.5 ND/U	16.8 ND/U	16.7 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	41.1 ND/U	39.5 ND/U	39.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	115 ND/U	110 ND/U	109 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-18-A(8-10) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(3-5) 11/9/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	130 ND/U	124 ND/U	124 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	521/=	388 ND/U	385 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.49 ND/U	1.66 ND/U	1.39 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.641 ND/U	0.712 ND/U	0.598 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.61 ND/U	1.79 ND/U	1.50 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.796 ND/U	0.884 ND/U	0.742 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.872 ND/U	0.969 ND/U	0.813 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.80 ND/U	2.00 ND/U	1.68 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.959 ND/U	1.07 ND/U	0.894 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.21 ND/U	1.35 ND/U	1.13 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.73 ND/U	1.92 ND/U	1.61 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.669 ND/U	0.743 ND/U	0.624 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.06 ND/U	1.18 ND/U	0.991 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.774 ND/U	0.859 ND/U	0.721 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.335 ND/U	0.372 ND/U	0.312 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.17 ND/U	1.30 ND/U	1.09 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.07 ND/U	1.19 ND/U	0.998 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.22 ND/U	1.36 ND/U	11.8/= /J
SW8260B	2-Hexanone	ug/Kg	0.967 ND/U	1.07 ND/U	0.901 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.06 ND/U	1.18 ND/U	0.989 ND/U
SW8260B	Acetone	ug/Kg	1.79 ND/U	1.99 ND/U	1.67 ND/U
SW8260B	Benzene	ug/Kg	4.44/TR/J	4.64/TR/J	0.876 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.07 ND/U	1.19 ND/U	0.996 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.984 ND/U	1.09 ND/U	0.917 ND/U
SW8260B	Bromoform	ug/Kg	1.09 ND/U	1.21 ND/U	1.01 ND/U
SW8260B	Bromomethane	ug/Kg	1.55 ND/U	1.72 ND/U	1.44 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.54 ND/U	17.2/=	1.43 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.36 ND/U	1.52 ND/U	1.27 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.07 ND/U	1.19 ND/U	1.00 ND/U
SW8260B	Chloroethane	ug/Kg	1.70 ND/U	1.89 ND/U	1.58 ND/U
SW8260B	Chloroform	ug/Kg	0.359 ND/U	0.399 ND/U	0.335 ND/U
SW8260B	Chloromethane	ug/Kg	1.55 ND/U	1.72 ND/U	1.44 ND/U
SW8260B	Cyclohexane	ug/Kg	7.13/=	7.64/=	1.65 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.27 ND/U	1.41 ND/U	1.18 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.91 ND/U	2.12 ND/U	1.78 ND/U
SW8260B	Ethylbenzene	ug/Kg	1.43/TR/J	3.06/TR/J	0.667 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.46 ND/U	1.62 ND/U	1.36 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.75 ND/UJ	4.16 ND/UJ	19.3/= /J
SW8260B	Methylcyclohexane	ug/Kg	7.67/=	10.1/=	0.771 ND/U

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SW8260B	Methylene Chloride	ug/Kg	1.06 ND/U	1.17 ND/U	0.986 ND/U
SW8260B	Styrene	ug/Kg	0.982 ND/U	1.09 ND/U	0.915 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.00 ND/U	1.11 ND/U	0.934 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.60 ND/U	1.78 ND/U	1.49 ND/U
SW8260B	Toluene	ug/Kg	8.23/=	12.2/=	0.786 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.41 ND/U	1.56 ND/U	1.31 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.472 ND/U	0.524 ND/U	0.440 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.54 ND/U	1.71 ND/U	1.43 ND/U
SW8260B	Xylenes, Total	ug/Kg	4.55/TR/J	7.68/=	1.12 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.943 ND/U	1.05 ND/U	0.879 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.07 ND/U	1.19 ND/U	1.00 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.38 ND/U	1.53 ND/U	1.28 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.810 ND/U	0.900 ND/U	0.755 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-19-D(3-5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(8-10) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-20-A(0.5-1.5) 11/4/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	16.6/=	23.1/=	16.9/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0289 ND/U	0.0302 ND/U	0.0299 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0280 ND/U	0.0292 ND/U	0.0289 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0388 ND/U	0.0405 ND/U	0.0401 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0643 ND/U	0.0671 ND/U	0.0664 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0593 ND/U	0.0618 ND/U	0.0613 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0462 ND/U	0.0483 ND/U	0.0478 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.0977 ND/U	0.102 ND/U	0.101 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.133 ND/U	0.139 ND/U	0.137 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0578 ND/U	0.0603 ND/U	0.0597 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.0967 ND/U	0.101 ND/U	0.100 ND/U
SW8330	HMX	mg/Kg	0.0260 ND/U	0.0272 ND/U	0.0269 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0497 ND/U	0.0518 ND/U	0.0513 ND/U
SW8330	RDX	mg/Kg	0.0334 ND/U	0.0349 ND/U	0.0345 ND/U
SW8330	Tetryl	mg/Kg	0.0920 ND/UJ	0.0960 ND/UJ	0.0951 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9590/=	8690/=	8840/=
SW6010B	Antimony (total)	mg/Kg	1.65 ND/UJ	0.796 ND/UJ	2.28/= /J
SW6010B	Arsenic (total)	mg/Kg	19.9/=	11.6/=	7.15/=
SW6010B	Barium (total)	mg/Kg	337/= /J	96.5/= /J	68.6/=
SW6010B	Beryllium (total)	mg/Kg	0.823/=	0.549/TR/J	0.0657 ND/U
SW6010B	Cadmium (total)	mg/Kg	1.68/=	0.642/=	0.0547 ND/U
SW6010B	Calcium (total)	mg/Kg	3970/=	45100/=	14300/= /J
SW6010B	Chromium (total)	mg/Kg	19.1/=	15.7/=	14.4/=
SW6010B	Cobalt (total)	mg/Kg	38.4/= /J	12.0/= /J	7.02/=
SW6010B	Copper (total)	mg/Kg	35.6/=	23.6/=	17.6/=
SW6010B	Iron (total)	mg/Kg	36600/=	21100/=	19900/=
SW6010B	Lead (total)	mg/Kg	25.7/=	11.9/=	23.6/=
SW6010B	Magnesium (total)	mg/Kg	3280/=	15800/=	5250/= /J
SW6010B	Manganese (total)	mg/Kg	3390/= /J	763/= /J	334/= /J
SW7471A	Mercury (total)	mg/Kg	0.0069 ND/U	0.0064 ND/U	0.0257/TR/J
SW6010B	Nickel (total)	mg/Kg	62.8/= /J	29.7/= /J	17.7/=
SW6010B	Potassium (total)	mg/Kg	1090/= /J	1590/= /J	737/= /J
SW6010B	Selenium (total)	mg/Kg	2.97 ND/U	1.44 ND/U	1.41/TR/J
SW6010B	Silver (total)	mg/Kg	0.121 ND/U	0.117 ND/U	0.105 ND/U
SW6010B	Sodium (total)	mg/Kg	59.0/TR/J	116/TR/J	50.6/TR/J
SW6010B	Thallium (total)	mg/Kg	2.52 ND/U	1.22 ND/U	5.11/=
SW6010B	Vanadium (total)	mg/Kg	39.0/= /J	22.5/= /J	24.1/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-19-D(3-5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-19-A(8-10) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-20-A(0.5-1.5) 11/4/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	73.3/= /J	67.1/= /J	56.4/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.18 ND/U	10.2 ND/U	94.1 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	38.5 ND/U	42.6 ND/U	394 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	20.7 ND/U	22.9 ND/U	213 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	19.9 ND/U	22.0 ND/U	203 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	20.3 ND/U	22.5 ND/U	208 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	33.9/TR/J	19.5 ND/U	1060/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	76.0/TR/J	5.44 ND/U	1640/=
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	53.6 ND/U	58.0 ND/U	52.2 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.2 ND/U	57.6 ND/U	51.8 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.3 ND/U	39.3 ND/U	35.4 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.5 ND/U	42.8 ND/U	38.5 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	317 ND/U	343 ND/U	309 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	554 ND/U	600 ND/U	539 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	133 ND/U	144 ND/U	130 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	161 ND/UJ	174 ND/UJ	157 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	430 ND/U	465 ND/U	419 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	125 ND/U	135 ND/U	122 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	169 ND/U	183 ND/U	165 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.5 ND/U	42.8 ND/U	38.5 ND/U
SW8270C	2-Chlorophenol	ug/Kg	123 ND/U	133 ND/U	119 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.1 ND/U	33.7 ND/U	30.3 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	254 ND/U	275 ND/U	247 ND/U
SW8270C	2-Nitroaniline	ug/Kg	220 ND/U	239 ND/U	215 ND/U
SW8270C	2-Nitrophenol	ug/Kg	325 ND/U	352 ND/U	317 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	716 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	239 ND/UJ	259 ND/UJ	233 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	218 ND/U	236 ND/U	212 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	164 ND/U	178 ND/U	160 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	445 ND/U	482 ND/U	434 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	306 ND/U	331 ND/U	298 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	99.3 ND/U	108 ND/U	96.7 ND/U
SW8270C	4-Nitroaniline	ug/Kg	239 ND/UJ	259 ND/UJ	233 ND/U
SW8270C	4-Nitrophenol	ug/Kg	161 ND/U	174 ND/U	157 ND/U
SW8270C	Acenaphthene	ug/Kg	13.7 ND/U	14.8 ND/U	13.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.5 ND/U	47.1 ND/U	42.3 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.7 ND/U	34.3 ND/U	143/TR/J
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.9 ND/U	24.8 ND/U	408/=
SW8270C	Benzo(a)pyrene	ug/Kg	31.0 ND/U	33.5 ND/U	364/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.5 ND/U	32.0 ND/U	329/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.1 ND/U	30.4 ND/U	207/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.5 ND/U	36.2 ND/U	400/=
SW8270C	Benzoic acid	ug/Kg	493 ND/U	534 ND/U	480 ND/U
SW8270C	Benzyl alcohol	ug/Kg	560 ND/U	606 ND/U	545 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	154 ND/U	166 ND/U	390/=
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	51.7 ND/U	56.0 ND/U	50.3 ND/U
SW8270C	Chrysene	ug/Kg	18.1 ND/U	19.6 ND/U	453/=
SW8270C	Di-n-butylphthalate	ug/Kg	481 ND/U	521 ND/U	469 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	96.4 ND/U	104 ND/U	93.9 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.6 ND/U	25.5 ND/U	76.7/TR/J
SW8270C	Dibenzofuran	ug/Kg	289 ND/U	313 ND/U	282 ND/U
SW8270C	Diethylphthalate	ug/Kg	432 ND/U	468 ND/U	421 ND/U
SW8270C	Dimethylphthalate	ug/Kg	246 ND/U	267 ND/U	240 ND/U
SW8270C	Fluoranthene	ug/Kg	19.6 ND/U	21.3 ND/U	798/=
SW8270C	Fluorene	ug/Kg	11.5 ND/U	12.5 ND/U	11.2 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	98.1 ND/U	106 ND/U	95.6 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.0 ND/U	34.7 ND/U	31.2 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	157 ND/UJ	170 ND/UJ	153 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.3 ND/U	66.4 ND/U	59.7 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.5 ND/U	32.0 ND/U	205/TR/J
SW8270C	Isophorone	ug/Kg	22.9 ND/U	24.8 ND/U	22.3 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	103 ND/U	111 ND/U	100 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	59.5 ND/U	64.5 ND/U	58.0 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	101 ND/U	110 ND/U	98.8 ND/U
SW8270C	Naphthalene	ug/Kg	11.3 ND/U	12.2 ND/U	11.0 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.3 ND/U	69.6 ND/U	62.6 ND/U
SW8270C	Pentachlorophenol	ug/Kg	250 ND/U	271 ND/U	244 ND/U
SW8270C	Phenanthrene	ug/Kg	22.0 ND/U	23.9 ND/U	245/TR/J
SW8270C	Phenol	ug/Kg	131 ND/U	142 ND/U	128 ND/U
SW8270C	Pyrene	ug/Kg	17.0 ND/U	18.4 ND/U	611/=
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.0 ND/U	43.3 ND/U	39.0 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	112 ND/U	121 ND/U	109 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	126 ND/U	137 ND/U	123 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	393 ND/U	426 ND/U	383 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.49 ND/U	1.47 ND/U	1.41 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.639 ND/U	0.632 ND/UJ	0.607 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.61 ND/U	1.59 ND/U	1.52 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.793 ND/U	0.785 ND/U	0.753 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.869 ND/U	0.860 ND/U	0.825 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.80 ND/U	1.78 ND/U	1.71 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.956 ND/U	0.946 ND/UJ	0.908 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.21 ND/U	1.20 ND/UJ	1.15 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.72 ND/U	1.70 ND/UJ	1.64 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.667 ND/U	0.660 ND/U	0.633 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.06 ND/U	1.05 ND/UJ	1.01 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.771 ND/U	0.762 ND/U	0.732 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.334 ND/U	0.330 ND/U	0.317 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.17 ND/U	1.15 ND/UJ	1.11 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.07 ND/U	1.05 ND/UJ	1.01 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	5.08/TR/J	1.21 ND/U	8.90/TR/J
SW8260B	2-Hexanone	ug/Kg	0.964 ND/U	0.953 ND/U	0.915 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.06 ND/U	1.05 ND/UJ	1.00 ND/U
SW8260B	Acetone	ug/Kg	1.79 ND/U	1.77 ND/U	154/=
SW8260B	Benzene	ug/Kg	0.937 ND/U	5.39/=	2.58/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.06 ND/U	1.05 ND/U	1.01 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.981 ND/U	0.970 ND/U	0.931 ND/U
SW8260B	Bromoform	ug/Kg	1.08 ND/U	1.07 ND/U	1.03 ND/U
SW8260B	Bromomethane	ug/Kg	1.54 ND/U	1.52 ND/U	1.46 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.53 ND/U	1.51 ND/U	4.80/TR/J
SW8260B	Carbon tetrachloride	ug/Kg	1.36 ND/U	1.34 ND/U	1.29 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.07 ND/U	1.06 ND/U	1.02 ND/U
SW8260B	Chloroethane	ug/Kg	1.69 ND/U	1.67 ND/U	1.61 ND/U
SW8260B	Chloroform	ug/Kg	0.358 ND/U	0.354 ND/U	0.339 ND/U
SW8260B	Chloromethane	ug/Kg	1.54 ND/U	1.52 ND/U	1.46 ND/U
SW8260B	Cyclohexane	ug/Kg	1.77 ND/U	8.88/=	5.82/=
SW8260B	Dibromochloromethane	ug/Kg	1.26 ND/U	1.25 ND/U	1.20 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.91 ND/U	1.88 ND/U	1.81 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.713 ND/U	1.63/TR/J	1.56/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.46 ND/U	1.44 ND/UJ	1.38 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.74 ND/UJ	3.70 ND/UJ	3.55 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.824 ND/U	8.92/=	6.55/=

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SW8260B	Methylene Chloride	ug/Kg	1.05 ND/U	1.04 ND/U	1.00 ND/U
SW8260B	Styrene	ug/Kg	0.979 ND/U	0.968 ND/U	0.929 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.999 ND/U	0.988 ND/U	0.948 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.60 ND/U	1.58 ND/U	1.51 ND/U
SW8260B	Toluene	ug/Kg	0.840 ND/U	10.3/=	5.52/=
SW8260B	Trichloroethene (TCE)	ug/Kg	1.40 ND/U	1.39 ND/U	1.33 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.470 ND/U	0.465 ND/U	0.446 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.53 ND/U	1.51 ND/U	1.45 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.20 ND/U	5.60/=	3.81/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.940 ND/U	0.930 ND/U	0.892 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.07 ND/U	1.06 ND/U	1.02 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.37 ND/U	1.36 ND/U	1.30 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.807 ND/U	0.798 ND/U	0.766 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	16.1/=	12.2/=	15.4/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0295 ND/U	0.0308 ND/U	0.0302 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0285 ND/U	0.0298 ND/U	0.0292 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0395 ND/U	0.0413 ND/U	0.0405 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0655 ND/U	0.0684 ND/U	0.0671 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0604 ND/U	0.0631 ND/U	0.0618 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0471 ND/U	0.0492 ND/U	0.0483 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.0995 ND/U	0.104 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.136 ND/U	0.142 ND/U	0.139 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0589 ND/U	0.0615 ND/U	0.0603 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.0986 ND/U	0.103 ND/U	0.101 ND/U
SW8330	HMX	mg/Kg	0.0265 ND/U	0.0277 ND/U	0.0272 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0506 ND/U	0.0529 ND/U	0.0518 ND/U
SW8330	RDX	mg/Kg	0.0340 ND/U	0.0355 ND/U	0.0349 ND/U
SW8330	Tetryl	mg/Kg	0.0937 ND/U	0.0979 ND/UJ	0.0960 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9230/=	7940/=	10600/=
SW6010B	Antimony (total)	mg/Kg	0.771 ND/UJ	0.610 ND/UJ	0.527 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	4.04/=	13.3/=	14.6/=
SW6010B	Barium (total)	mg/Kg	72.4/=	80.1/= /J	74.8/= /J
SW6010B	Beryllium (total)	mg/Kg	0.0712 ND/U	0.590/=	0.678/=
SW6010B	Cadmium (total)	mg/Kg	0.0593 ND/U	0.674/=	0.917/=
SW6010B	Calcium (total)	mg/Kg	24500/= /J	39300/=	3460/=
SW6010B	Chromium (total)	mg/Kg	13.8/=	13.9/=	18.1/=
SW6010B	Cobalt (total)	mg/Kg	9.05/=	11.5/= /J	14.3/= /J
SW6010B	Copper (total)	mg/Kg	17.7/=	21.3/=	31.6/=
SW6010B	Iron (total)	mg/Kg	19800/=	22100/=	34800/=
SW6010B	Lead (total)	mg/Kg	9.25/=	27.2/=	15.3/=
SW6010B	Magnesium (total)	mg/Kg	9660/= /J	13100/=	3740/=
SW6010B	Manganese (total)	mg/Kg	611/= /J	766/= /J	1020/= /J
SW7471A	Mercury (total)	mg/Kg	0.0157/TR/J	0.0241/TR/J	0.0182/TR/J
SW6010B	Nickel (total)	mg/Kg	20.1/=	28.3/= /J	41.7/= /J
SW6010B	Potassium (total)	mg/Kg	840/= /J	950/= /J	1160/= /J
SW6010B	Selenium (total)	mg/Kg	1.39 ND/U	1.10 ND/U	0.952 ND/U
SW6010B	Silver (total)	mg/Kg	0.114 ND/U	0.0899 ND/U	0.0775 ND/U
SW6010B	Sodium (total)	mg/Kg	78.0/TR/J	87.3/TR/J	56.4/TR/J
SW6010B	Thallium (total)	mg/Kg	5.45/=	0.934 ND/U	0.806 ND/U
SW6010B	Vanadium (total)	mg/Kg	22.2/=	24.7/= /J	28.6/= /J

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-20-A(3-5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-21-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-21-A(3-5) 11/9/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	46.1/=	53.4/= /J	84.4/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.00 ND/U	181 ND/U	9.58 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	37.7 ND/U	759 ND/U	40.2 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	20.3 ND/U	409 ND/U	21.7 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	19.5 ND/U	391 ND/U	20.7 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	19.9 ND/U	400 ND/U	21.2 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	17.3 ND/U	3560/TR/J	18.4 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	4.82 ND/U	3160/=	5.14 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.8 ND/U	49.9 ND/U	52.5 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.5 ND/U	49.6 ND/U	52.1 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.1 ND/U	33.8 ND/U	35.6 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.2 ND/U	36.8 ND/U	38.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	306 ND/U	295 ND/U	310 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	535 ND/U	516 ND/U	542 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	129 ND/U	124 ND/U	131 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	155 ND/U	150 ND/UJ	157 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	416 ND/U	401 ND/U	421 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	121 ND/U	117 ND/U	122 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	163 ND/U	158 ND/U	166 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.2 ND/U	36.8 ND/U	38.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	119 ND/U	114 ND/U	120 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.0 ND/U	29.0 ND/U	30.4 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	245 ND/U	236 ND/U	248 ND/U
SW8270C	2-Nitroaniline	ug/Kg	213 ND/U	205 ND/U	216 ND/U
SW8270C	2-Nitrophenol	ug/Kg	314 ND/U	303 ND/U	318 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	710 ND/UJ	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	231 ND/U	223 ND/UJ	234 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	211 ND/U	203 ND/U	213 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	159 ND/U	153 ND/U	161 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	430 ND/U	415 ND/U	436 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	296 ND/U	285 ND/U	300 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	96.0 ND/U	92.5 ND/U	97.3 ND/U
SW8270C	4-Nitroaniline	ug/Kg	231 ND/U	223 ND/UJ	234 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	155 ND/U	150 ND/U	157 ND/U
SW8270C	Acenaphthene	ug/Kg	13.2 ND/U	12.8 ND/U	13.4 ND/U
SW8270C	Acenaphthylene	ug/Kg	42.0 ND/U	185/TR/J	42.6 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-20-A(3-5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-21-A(0.5-1.5) 11/9/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-21-A(3-5) 11/9/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	30.6 ND/U	235/TR/J	31.0 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.1 ND/U	405/=	22.4 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	29.9 ND/U	358/TR/J	30.3 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.5 ND/U	376/=	28.9 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.2 ND/U	486/=	27.5 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.3 ND/U	269/TR/J	32.8 ND/U
SW8270C	Benzoic acid	ug/Kg	477 ND/U	459 ND/U	483 ND/U
SW8270C	Benzyl alcohol	ug/Kg	541 ND/U	521 ND/U	548 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	148 ND/U	143 ND/U	196/TR/J
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	50.0 ND/U	48.2 ND/U	50.6 ND/U
SW8270C	Chrysene	ug/Kg	17.5 ND/U	481/=	17.7 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	465 ND/U	464/TR/J	471 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	93.2 ND/U	89.9 ND/U	94.5 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.8 ND/U	193/TR/J	23.1 ND/U
SW8270C	Dibenzofuran	ug/Kg	280 ND/U	270 ND/U	283 ND/U
SW8270C	Diethylphthalate	ug/Kg	418 ND/U	403 ND/U	423 ND/U
SW8270C	Dimethylphthalate	ug/Kg	238 ND/U	230 ND/U	241 ND/U
SW8270C	Fluoranthene	ug/Kg	19.0 ND/U	829/=	19.2 ND/U
SW8270C	Fluorene	ug/Kg	11.1 ND/U	69.5/TR/J	11.3 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	94.8 ND/U	91.4 ND/U	96.1 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.0 ND/U	29.8 ND/U	31.4 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	152 ND/UJ	146 ND/UJ	154 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.3 ND/U	57.1 ND/U	60.1 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	28.5 ND/U	689/=	28.9 ND/U
SW8270C	Isophorone	ug/Kg	22.1 ND/U	21.3 ND/U	22.4 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.4 ND/U	95.9 ND/U	101 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.6 ND/U	55.5 ND/U	58.3 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	98.1 ND/U	94.5 ND/U	99.4 ND/U
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	10.5 ND/U	11.0 ND/U
SW8270C	Nitrobenzene	ug/Kg	62.2 ND/U	59.9 ND/U	63.0 ND/U
SW8270C	Pentachlorophenol	ug/Kg	242 ND/U	233 ND/U	245 ND/U
SW8270C	Phenanthrene	ug/Kg	21.3 ND/U	421/=	21.6 ND/U
SW8270C	Phenol	ug/Kg	127 ND/U	122 ND/U	128 ND/U
SW8270C	Pyrene	ug/Kg	16.5 ND/U	600/=	16.7 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.7 ND/U	37.3 ND/U	39.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	104 ND/U	109 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	118 ND/U	124 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	380 ND/U	366 ND/U	385 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.38 ND/U	1.61 ND/U	1.31 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.592 ND/U	0.692 ND/U	0.561 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.49 ND/U	1.74 ND/U	1.41 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.735 ND/U	0.859 ND/U	0.696 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.805 ND/U	0.942 ND/U	0.763 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.67 ND/U	1.95 ND/U	1.58 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.885 ND/U	1.04 ND/U	0.839 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.12 ND/U	1.31 ND/U	1.06 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.60 ND/U	1.87 ND/U	1.51 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.618 ND/U	0.723 ND/U	0.585 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.981 ND/U	1.15 ND/U	0.929 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.714 ND/U	0.835 ND/U	0.677 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.309 ND/U	0.362 ND/U	0.293 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.08 ND/U	1.26 ND/U	1.02 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.988 ND/U	1.16 ND/U	0.936 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.13 ND/U	1.32 ND/U	1.07 ND/U
SW8260B	2-Hexanone	ug/Kg	0.892 ND/U	1.04 ND/U	0.846 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.979 ND/U	1.14 ND/U	0.927 ND/U
SW8260B	Acetone	ug/Kg	1.66 ND/U	1.94 ND/U	1.57 ND/U
SW8260B	Benzene	ug/Kg	6.23/=	5.29/TR/J	0.822 ND/U
SW8260B	Bromochloromethane	ug/Kg	0.986 ND/U	1.15 ND/U	0.934 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.908 ND/U	1.06 ND/U	0.861 ND/U
SW8260B	Bromoform	ug/Kg	1.00 ND/U	1.17 ND/U	0.949 ND/U
SW8260B	Bromomethane	ug/Kg	1.43 ND/U	1.67 ND/U	1.35 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.42 ND/U	3.57/TR/J	1.34 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.26 ND/U	1.47 ND/U	1.19 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.992 ND/U	1.16 ND/U	0.940 ND/U
SW8260B	Chloroethane	ug/Kg	1.57 ND/U	1.83 ND/U	1.48 ND/U
SW8260B	Chloroform	ug/Kg	0.331 ND/U	0.387 ND/U	0.314 ND/U
SW8260B	Chloromethane	ug/Kg	1.43 ND/U	1.67 ND/U	1.35 ND/U
SW8260B	Cyclohexane	ug/Kg	10.2/=	9.76/=	1.55 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.17 ND/U	1.37 ND/U	1.11 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.77 ND/U	2.06 ND/U	1.67 ND/U
SW8260B	Ethylbenzene	ug/Kg	3.37/TR/J	2.69/TR/J	0.626 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.35 ND/U	1.58 ND/U	1.28 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.46 ND/UJ	4.05 ND/UJ	3.28 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	11.3/=	10.9/=	0.724 ND/U

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SW8260B	Methylene Chloride	ug/Kg	0.976 ND/U	1.14 ND/U	0.925 ND/U
SW8260B	Styrene	ug/Kg	0.906 ND/U	1.06 ND/U	0.859 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.925 ND/U	1.08 ND/U	0.877 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.48 ND/U	1.73 ND/U	1.40 ND/U
SW8260B	Toluene	ug/Kg	13.7/=	11.3/=	0.738 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.30 ND/U	1.52 ND/U	1.23 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.435 ND/U	0.509 ND/U	0.412 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.42 ND/U	1.66 ND/U	1.34 ND/U
SW8260B	Xylenes, Total	ug/Kg	9.31/=	7.48/=	1.05 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.871 ND/U	1.02 ND/U	0.825 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.992 ND/U	1.16 ND/U	0.940 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.27 ND/U	1.48 ND/U	1.20 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.748 ND/U	0.875 ND/U	0.708 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	14.0/=	15.9/=	15.2/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0299 ND/U	0.0306 ND/U	0.0295 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0289 ND/U	0.0297 ND/U	0.0285 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0401 ND/U	0.0411 ND/U	0.0395 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0664 ND/U	0.0681 ND/U	0.0655 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0613 ND/U	0.0628 ND/U	0.0604 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0478 ND/U	0.0490 ND/U	0.0471 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.101 ND/U	0.103 ND/U	0.0995 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.137 ND/U	0.141 ND/U	0.136 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0597 ND/U	0.0612 ND/U	0.0589 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.100 ND/U	0.102 ND/U	0.0986 ND/U
SW8330	HMX	mg/Kg	0.0269 ND/U	0.0276 ND/U	0.0265 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0513 ND/U	0.0526 ND/U	0.0506 ND/U
SW8330	RDX	mg/Kg	0.0345 ND/U	0.0354 ND/U	0.0340 ND/U
SW8330	Tetryl	mg/Kg	0.0951 ND/UJ	0.0974 ND/UJ	0.0937 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7950/=	8660/=	6520/=
SW6010B	Antimony (total)	mg/Kg	0.753 ND/UJ	0.770 ND/UJ	0.829/TR/J
SW6010B	Arsenic (total)	mg/Kg	7.57/=	31.0/=	4.32/=
SW6010B	Barium (total)	mg/Kg	57.5/= /J	201/= /J	43.9/=
SW6010B	Beryllium (total)	mg/Kg	0.503/TR/J	0.583/=	0.0644 ND/U
SW6010B	Cadmium (total)	mg/Kg	0.493/TR/J	0.543/TR/J	0.0536 ND/U
SW6010B	Calcium (total)	mg/Kg	53800/=	49900/=	7610/= /J
SW6010B	Chromium (total)	mg/Kg	14.1/=	14.8/=	8.84/=
SW6010B	Cobalt (total)	mg/Kg	6.68/= /J	15.7/= /J	5.96/=
SW6010B	Copper (total)	mg/Kg	22.0/=	25.6/=	7.27/=
SW6010B	Iron (total)	mg/Kg	18600/=	30100/=	12200/=
SW6010B	Lead (total)	mg/Kg	11.5/=	15.9/=	39.4/=
SW6010B	Magnesium (total)	mg/Kg	17600/=	16400/=	2010/= /J
SW6010B	Manganese (total)	mg/Kg	465/= /J	1670/= /J	294/= /J
SW7471A	Mercury (total)	mg/Kg	0.0134/TR/J	0.0058 ND/U	0.0174/TR/J
SW6010B	Nickel (total)	mg/Kg	22.9/= /J	40.0/= /J	9.08/=
SW6010B	Potassium (total)	mg/Kg	1450/= /J	1500/= /J	362/= /J
SW6010B	Selenium (total)	mg/Kg	1.36 ND/U	1.39 ND/U	1.75/TR/J
SW6010B	Silver (total)	mg/Kg	0.111 ND/U	0.113 ND/U	0.103 ND/U
SW6010B	Sodium (total)	mg/Kg	129/TR/J	118/TR/J	38.8/TR/J
SW6010B	Thallium (total)	mg/Kg	1.15 ND/U	1.48/TR/J	4.74/=
SW6010B	Vanadium (total)	mg/Kg	22.0/= /J	24.9/= /J	16.4/=

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SW6010B	Zinc (total)	mg/Kg	53.4/= /J	69.2/= /J	29.0/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	8.89 ND/U	9.57 ND/U	96.7 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	37.2 ND/U	40.1 ND/U	405 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	20.1 ND/U	21.6 ND/U	218 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	19.2 ND/U	20.7 ND/U	209 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	19.6 ND/U	21.2 ND/U	214 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	17.1 ND/U	18.4 ND/U	1240/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	4.76 ND/U	5.13 ND/U	1910/=
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.6 ND/U	52.2 ND/U	51.9 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.3 ND/U	51.9 ND/U	51.6 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.0 ND/U	35.4 ND/U	35.2 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.1 ND/U	38.5 ND/U	38.3 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	305 ND/U	309 ND/U	307 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	533 ND/U	540 ND/U	537 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	128 ND/U	130 ND/U	129 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	155 ND/UJ	157 ND/UJ	156 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	414 ND/U	419 ND/U	417 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	120 ND/U	122 ND/U	121 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	163 ND/U	165 ND/U	164 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.1 ND/U	38.5 ND/U	38.3 ND/U
SW8270C	2-Chlorophenol	ug/Kg	118 ND/U	120 ND/U	119 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	29.9 ND/U	30.3 ND/U	80.2/TR/J
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	244 ND/U	247 ND/U	246 ND/U
SW8270C	2-Nitroaniline	ug/Kg	212 ND/U	215 ND/U	213 ND/U
SW8270C	2-Nitrophenol	ug/Kg	313 ND/U	317 ND/U	315 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	712 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	230 ND/UJ	233 ND/UJ	232 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	210 ND/U	212 ND/U	211 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	158 ND/U	160 ND/U	159 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	429 ND/U	434 ND/U	432 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	295 ND/U	298 ND/U	297 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	95.6 ND/U	96.8 ND/U	96.2 ND/U
SW8270C	4-Nitroaniline	ug/Kg	230 ND/UJ	233 ND/UJ	232 ND/U
SW8270C	4-Nitrophenol	ug/Kg	155 ND/U	157 ND/U	156 ND/U
SW8270C	Acenaphthene	ug/Kg	13.2 ND/U	13.3 ND/U	13.3 ND/U
SW8270C	Acenaphthylene	ug/Kg	41.9 ND/U	42.4 ND/U	168/TR/J
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	30.5 ND/U	30.9 ND/U	77.2/TR/J
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.0 ND/U	22.3 ND/U	358/TR/J
SW8270C	Benzo(a)pyrene	ug/Kg	29.8 ND/U	30.2 ND/U	541/=
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.4 ND/U	28.8 ND/U	508/=
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.1 ND/U	27.4 ND/U	320/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.2 ND/U	32.6 ND/U	491/=
SW8270C	Benzoic acid	ug/Kg	475 ND/U	480 ND/U	478 ND/U
SW8270C	Benzyl alcohol	ug/Kg	539 ND/U	545 ND/U	542 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	148 ND/U	150 ND/U	149 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	49.8 ND/U	50.4 ND/U	50.1 ND/U
SW8270C	Chrysene	ug/Kg	17.4 ND/U	17.6 ND/U	419/=
SW8270C	Di-n-butylphthalate	ug/Kg	463 ND/U	469 ND/U	466 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	92.9 ND/U	94.0 ND/U	93.5 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.7 ND/U	23.0 ND/U	100/TR/J
SW8270C	Dibenzofuran	ug/Kg	279 ND/U	282 ND/U	280 ND/U
SW8270C	Diethylphthalate	ug/Kg	416 ND/U	421 ND/U	419 ND/U
SW8270C	Dimethylphthalate	ug/Kg	237 ND/U	240 ND/U	239 ND/U
SW8270C	Fluoranthene	ug/Kg	18.9 ND/U	19.2 ND/U	396/=
SW8270C	Fluorene	ug/Kg	11.1 ND/U	11.2 ND/U	11.2 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	94.5 ND/U	95.6 ND/U	95.1 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.8 ND/U	31.2 ND/U	31.0 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	151 ND/UJ	153 ND/UJ	152 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.1 ND/U	59.8 ND/U	59.4 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	28.4 ND/U	28.8 ND/U	272/TR/J
SW8270C	Isophorone	ug/Kg	22.0 ND/U	22.3 ND/U	22.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.1 ND/U	100 ND/U	99.7 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.3 ND/U	58.0 ND/U	57.7 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	97.7 ND/U	98.9 ND/U	98.3 ND/U
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	11.0 ND/U	59.7/TR/J
SW8270C	Nitrobenzene	ug/Kg	61.9 ND/U	62.7 ND/U	62.3 ND/U
SW8270C	Pentachlorophenol	ug/Kg	241 ND/U	244 ND/U	242 ND/U
SW8270C	Phenanthrene	ug/Kg	21.2 ND/U	21.5 ND/U	124/TR/J
SW8270C	Phenol	ug/Kg	126 ND/U	128 ND/U	127 ND/U
SW8270C	Pyrene	ug/Kg	16.4 ND/U	16.6 ND/U	385/=
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.5 ND/U	39.0 ND/U	38.8 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	109 ND/U	108 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	123 ND/U	122 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	378 ND/U	582/= /J	381 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.31 ND/U	1.36 ND/U	1.53 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.562 ND/U	0.583 ND/U	0.659 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.41 ND/U	1.46 ND/U	1.66 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.697 ND/U	0.723 ND/U	0.818 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.764 ND/U	0.793 ND/U	0.897 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.58 ND/U	1.64 ND/U	1.85 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.840 ND/U	0.872 ND/U	0.986 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.06 ND/U	1.10 ND/U	1.25 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.51 ND/U	1.57 ND/U	1.78 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.586 ND/U	0.608 ND/U	0.688 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.930 ND/U	0.966 ND/U	1.09 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.677 ND/U	0.703 ND/U	0.795 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.294 ND/U	0.305 ND/U	0.344 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.03 ND/U	1.06 ND/U	1.20 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.937 ND/U	0.972 ND/U	1.10 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.07 ND/U	1.11 ND/U	1.26 ND/U
SW8260B	2-Hexanone	ug/Kg	0.847 ND/U	0.879 ND/U	0.994 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.929 ND/U	0.964 ND/U	1.09 ND/UJ
SW8260B	Acetone	ug/Kg	1.57 ND/U	1.63 ND/U	1.84 ND/U
SW8260B	Benzene	ug/Kg	0.823 ND/U	0.854 ND/U	0.966 ND/U
SW8260B	Bromochloromethane	ug/Kg	0.935 ND/U	0.970 ND/U	1.10 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.862 ND/U	0.894 ND/U	1.01 ND/U
SW8260B	Bromoform	ug/Kg	0.950 ND/U	0.986 ND/U	1.12 ND/U
SW8260B	Bromomethane	ug/Kg	1.35 ND/U	1.41 ND/U	1.59 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.35 ND/U	1.40 ND/U	1.58 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.19 ND/U	1.24 ND/U	1.40 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.941 ND/U	0.976 ND/U	1.10 ND/U
SW8260B	Chloroethane	ug/Kg	1.49 ND/U	1.54 ND/U	1.74 ND/U
SW8260B	Chloroform	ug/Kg	0.314 ND/U	0.326 ND/U	0.369 ND/U
SW8260B	Chloromethane	ug/Kg	1.35 ND/U	1.41 ND/U	1.59 ND/U
SW8260B	Cyclohexane	ug/Kg	1.55 ND/U	1.61 ND/U	1.82 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.11 ND/U	1.15 ND/U	1.30 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.67 ND/U	1.74 ND/U	1.97 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.627 ND/U	0.650 ND/U	0.735 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.28 ND/U	1.33 ND/U	1.50 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	3.28 ND/UJ	3.41 ND/UJ	3.85 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.724 ND/U	0.752 ND/U	0.850 ND/U

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SW8260B	Methylene Chloride	ug/Kg	0.926 ND/U	0.961 ND/U	1.09 ND/U
SW8260B	Styrene	ug/Kg	0.860 ND/U	0.892 ND/U	1.01 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.878 ND/U	0.911 ND/U	1.03 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.40 ND/U	1.45 ND/U	1.65 ND/U
SW8260B	Toluene	ug/Kg	0.739 ND/U	0.766 ND/U	0.867 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.23 ND/U	1.28 ND/U	1.45 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.413 ND/U	0.429 ND/U	0.485 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.35 ND/U	1.40 ND/U	1.58 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.05 ND/U	1.09 ND/U	1.24 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.826 ND/U	0.857 ND/U	0.969 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.941 ND/U	0.976 ND/U	1.10 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.20 ND/U	1.25 ND/U	1.41 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.709 ND/U	0.736 ND/U	0.833 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	17.1/=	19.7/=	15.9/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0311 ND/U	0.0298 ND/U	0.0305 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0301 ND/U	0.0288 ND/U	0.0295 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0417 ND/U	0.0399 ND/U	0.0409 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0691 ND/U	0.0661 ND/U	0.0677 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0637 ND/U	0.0610 ND/U	0.0625 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0497 ND/U	0.0476 ND/U	0.0487 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.105 ND/U	0.100 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.143 ND/U	0.137 ND/U	0.140 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0621 ND/U	0.0594 ND/U	0.0609 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.104 ND/U	0.0995 ND/U	0.102 ND/U
SW8330	HMX	mg/Kg	0.0280 ND/U	0.0268 ND/U	0.0275 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0534 ND/U	0.0511 ND/U	0.0524 ND/U
SW8330	RDX	mg/Kg	0.0359 ND/U	0.0344 ND/U	0.0352 ND/U
SW8330	Tetryl	mg/Kg	0.0989 ND/U	0.0946 ND/U	0.0970 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7140/=	7040/=	7010/=
SW6010B	Antimony (total)	mg/Kg	0.481 ND/UJ	0.527 ND/UJ	0.800 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	6.76/=	4.97/=	6.62/=
SW6010B	Barium (total)	mg/Kg	65.5/=	47.8/=	61.4/= /J
SW6010B	Beryllium (total)	mg/Kg	0.0444 ND/U	0.0487 ND/U	0.468/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.0370 ND/U	0.0405 ND/U	0.425/TR/J
SW6010B	Calcium (total)	mg/Kg	49200/= /J	52400/= /J	6220/=
SW6010B	Chromium (total)	mg/Kg	11.3/=	12.1/=	11.6/=
SW6010B	Cobalt (total)	mg/Kg	8.78/=	8.14/=	6.03/= /J
SW6010B	Copper (total)	mg/Kg	25.6/=	19.3/=	18.9/=
SW6010B	Iron (total)	mg/Kg	17400/=	16400/=	13800/=
SW6010B	Lead (total)	mg/Kg	13.5/=	10.6/=	653/=
SW6010B	Magnesium (total)	mg/Kg	15600/= /J	23500/= /J	2210/=
SW6010B	Manganese (total)	mg/Kg	397/= /J	479/= /J	639/= /J
SW7471A	Mercury (total)	mg/Kg	0.0065 ND/U	0.0102/TR/J	0.0385/TR/J
SW6010B	Nickel (total)	mg/Kg	25.9/=	20.0/=	11.8/= /J
SW6010B	Potassium (total)	mg/Kg	730/= /J	1290/= /J	497/= /J
SW6010B	Selenium (total)	mg/Kg	1.74 ND/U	1.91 ND/U	1.45 ND/U
SW6010B	Silver (total)	mg/Kg	0.0708 ND/U	0.104/TR/J	0.118 ND/U
SW6010B	Sodium (total)	mg/Kg	93.6/TR/J	140/=	51.9/TR/J
SW6010B	Thallium (total)	mg/Kg	1.47 ND/U	0.807 ND/U	1.22 ND/U
SW6010B	Vanadium (total)	mg/Kg	20.3/=	20.3/=	17.5/= /J

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-22-A(3-5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-22-A(8-10) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-23-A(0.5-1.5) 11/9/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	45.7/=	42.4/=	39.3/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.48 ND/U	9.73 ND/U	89.8 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	39.7 ND/U	40.8 ND/U	376 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	21.4 ND/U	22.0 ND/U	203 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	20.5 ND/U	21.1 ND/U	194 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.0 ND/U	21.5 ND/U	199 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.2 ND/U	18.7 ND/U	581/TR/J
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.08 ND/U	5.22 ND/U	626/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	53.0 ND/U	55.0 ND/U	267 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	52.7 ND/U	54.6 ND/U	265 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.9 ND/U	37.3 ND/U	181 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.1 ND/U	40.6 ND/U	197 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	314 ND/U	325 ND/U	1580 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	548 ND/U	568 ND/U	2760 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	132 ND/U	137 ND/U	664 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	159 ND/U	165 ND/U	800 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	425 ND/U	441 ND/U	2140 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	124 ND/U	128 ND/U	622 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	167 ND/U	174 ND/U	842 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.1 ND/U	40.6 ND/U	197 ND/U
SW8270C	2-Chlorophenol	ug/Kg	121 ND/U	126 ND/U	611 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.8 ND/U	31.9 ND/U	155 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	251 ND/U	260 ND/U	1260 ND/U
SW8270C	2-Nitroaniline	ug/Kg	218 ND/U	226 ND/U	1100 ND/U
SW8270C	2-Nitrophenol	ug/Kg	322 ND/U	334 ND/U	1620 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	727 ND/UJ	754 ND/UJ	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	237 ND/U	246 ND/U	1190 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	216 ND/U	224 ND/U	1080 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	163 ND/U	169 ND/U	818 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	441 ND/U	457 ND/U	2220 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	303 ND/U	314 ND/U	1520 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	98.3 ND/U	102 ND/U	494 ND/U
SW8270C	4-Nitroaniline	ug/Kg	237 ND/U	246 ND/U	1190 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	159 ND/U	165 ND/U	800 ND/U
SW8270C	Acenaphthene	ug/Kg	13.6 ND/U	14.1 ND/U	68.2 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.0 ND/U	44.6 ND/U	216 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.4 ND/U	32.5 ND/U	158 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.6 ND/U	23.5 ND/U	114 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	30.6 ND/U	31.8 ND/U	154 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.2 ND/U	30.3 ND/U	147 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.8 ND/U	28.8 ND/U	375/TR/J
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.1 ND/U	34.3 ND/U	167 ND/U
SW8270C	Benzoic acid	ug/Kg	488 ND/U	506 ND/U	2450 ND/U
SW8270C	Benzyl alcohol	ug/Kg	554 ND/U	574 ND/U	2790 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	152 ND/U	158 ND/U	765 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	51.2 ND/U	53.0 ND/U	257 ND/U
SW8270C	Chrysene	ug/Kg	17.9 ND/U	18.6 ND/U	90.1 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	1440/=	494 ND/U	2390 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	95.5 ND/U	99.0 ND/U	480 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.3 ND/U	24.2 ND/U	117 ND/U
SW8270C	Dibenzofuran	ug/Kg	286 ND/U	297 ND/U	1440 ND/U
SW8270C	Diethylphthalate	ug/Kg	428 ND/U	444 ND/U	2150 ND/U
SW8270C	Dimethylphthalate	ug/Kg	244 ND/U	253 ND/U	1230 ND/U
SW8270C	Fluoranthene	ug/Kg	19.4 ND/U	20.2 ND/U	97.8 ND/U
SW8270C	Fluorene	ug/Kg	11.4 ND/U	11.8 ND/U	57.4 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	97.1 ND/U	101 ND/U	488 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.7 ND/U	32.9 ND/U	159 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	156 ND/UJ	161 ND/UJ	782 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	60.7 ND/U	62.9 ND/U	305 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.2 ND/U	30.3 ND/U	147 ND/U
SW8270C	Isophorone	ug/Kg	22.6 ND/U	23.5 ND/U	114 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	102 ND/U	106 ND/U	512 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	58.9 ND/U	61.1 ND/U	296 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	100 ND/U	104 ND/U	505 ND/U
SW8270C	Naphthalene	ug/Kg	11.2 ND/U	11.6 ND/U	56.1 ND/U
SW8270C	Nitrobenzene	ug/Kg	63.6 ND/U	66.0 ND/U	320 ND/U
SW8270C	Pentachlorophenol	ug/Kg	248 ND/U	257 ND/U	1240 ND/U
SW8270C	Phenanthrene	ug/Kg	21.8 ND/U	22.6 ND/U	110 ND/U
SW8270C	Phenol	ug/Kg	130 ND/U	134 ND/U	652 ND/U
SW8270C	Pyrene	ug/Kg	16.9 ND/U	17.5 ND/U	84.8 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	39.6 ND/U	41.1 ND/U	199 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	111 ND/U	115 ND/U	556 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-22-A(3-5) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-22-A(8-10) 11/4/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-23-A(0.5-1.5) 11/9/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	125 ND/U	130 ND/U	628 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	389 ND/U	403 ND/U	1960 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.57 ND/U	1.44 ND/U	1.64 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.674 ND/U	0.621 ND/U	0.704 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.69 ND/U	1.56 ND/U	1.77 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.837 ND/U	0.770 ND/U	0.874 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.917 ND/U	0.844 ND/U	0.958 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.90 ND/U	1.75 ND/U	1.98 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.01 ND/U	0.928 ND/U	1.05 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.28 ND/U	1.17 ND/U	1.33 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.82 ND/U	1.67 ND/U	1.90 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.704 ND/U	0.648 ND/U	0.735 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.12 ND/U	1.03 ND/U	1.17 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.813 ND/U	0.748 ND/U	0.849 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.352 ND/U	0.324 ND/U	0.368 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.23 ND/U	1.13 ND/U	1.29 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.12 ND/U	1.04 ND/U	1.17 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.29 ND/U	1.19 ND/U	14.3/=
SW8260B	2-Hexanone	ug/Kg	1.02 ND/U	0.936 ND/U	1.06 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.11 ND/U	1.03 ND/U	1.16 ND/U
SW8260B	Acetone	ug/Kg	1.89 ND/U	1.74 ND/U	1.97 ND/U
SW8260B	Benzene	ug/Kg	6.03/=	3.43/TR/J	1.03 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.12 ND/U	1.03 ND/U	1.17 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.03 ND/U	0.952 ND/U	1.08 ND/U
SW8260B	Bromoform	ug/Kg	1.14 ND/U	1.05 ND/U	1.19 ND/U
SW8260B	Bromomethane	ug/Kg	1.63 ND/U	1.50 ND/U	1.70 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.62 ND/U	1.49 ND/U	1.69 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.43 ND/U	1.32 ND/U	1.50 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.13 ND/U	1.04 ND/U	1.18 ND/U
SW8260B	Chloroethane	ug/Kg	1.78 ND/U	1.64 ND/U	1.86 ND/U
SW8260B	Chloroform	ug/Kg	0.377 ND/U	0.347 ND/U	0.394 ND/U
SW8260B	Chloromethane	ug/Kg	1.63 ND/U	1.50 ND/U	1.70 ND/U
SW8260B	Cyclohexane	ug/Kg	8.37/=	6.32/=	1.95 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.33 ND/U	1.23 ND/U	1.39 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.01 ND/U	1.85 ND/U	2.10 ND/U
SW8260B	Ethylbenzene	ug/Kg	3.37/TR/J	0.787/TR/J	0.786 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.54 ND/U	1.41 ND/U	1.60 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.94 ND/UJ	3.63 ND/UJ	4.12 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	9.41/=	6.46/=	1.82/TR/J

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SW8260B	Methylene Chloride	ug/Kg	1.11 ND/U	1.02 ND/U	1.16 ND/U
SW8260B	Styrene	ug/Kg	1.03 ND/U	0.950 ND/U	1.08 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.05 ND/U	0.970 ND/U	1.10 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.68 ND/U	1.55 ND/U	1.76 ND/U
SW8260B	Toluene	ug/Kg	15.1/=	5.44/=	2.28/TR/J
SW8260B	Trichloroethene (TCE)	ug/Kg	1.48 ND/U	1.36 ND/U	1.55 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.496 ND/U	0.456 ND/U	0.518 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.62 ND/U	1.49 ND/U	1.69 ND/U
SW8260B	Xylenes, Total	ug/Kg	9.58/=	2.68/TR/J	1.32 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.992 ND/U	0.913 ND/U	1.04 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.13 ND/U	1.04 ND/U	1.18 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.45 ND/U	1.33 ND/U	1.51 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.852 ND/U	0.784 ND/U	0.889 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	20.9/=	18.6/=	18.3/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0303 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0294 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0407 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0674 ND/U	0.0691 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.0621 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0485 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.102 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.140 ND/U	0.143 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0606 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.101 ND/U	0.104 ND/U
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0273 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0521 ND/U	0.0534 ND/U
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0350 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0965 ND/UJ	0.0989 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	7380/=	5000/=	8720/=
SW6010B	Antimony (total)	mg/Kg	0.735 ND/UJ	0.780 ND/UJ	0.608 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	13.1/=	9.15/=	10.0/=
SW6010B	Barium (total)	mg/Kg	47.0/= /J	39.0/= /J	53.1/= /J
SW6010B	Beryllium (total)	mg/Kg	0.575/=	0.366/TR/J	0.561/=
SW6010B	Cadmium (total)	mg/Kg	0.727/=	0.434/TR/J	0.567/=
SW6010B	Calcium (total)	mg/Kg	20700/=	30200/=	58200/=
SW6010B	Chromium (total)	mg/Kg	13.8/=	9.53/=	15.4/=
SW6010B	Cobalt (total)	mg/Kg	12.8/= /J	5.66/= /J	10.0/=
SW6010B	Copper (total)	mg/Kg	26.6/=	16.2/=	23.6/=
SW6010B	Iron (total)	mg/Kg	22600/=	15500/=	21400/=
SW6010B	Lead (total)	mg/Kg	14.2/=	9.07/=	11.5/=
SW6010B	Magnesium (total)	mg/Kg	10900/=	11700/=	19600/=
SW6010B	Manganese (total)	mg/Kg	676/= /J	490/= /J	573/= /J
SW7471A	Mercury (total)	mg/Kg	0.0128/TR/J	0.0057 ND/U	0.0087/TR/J
SW6010B	Nickel (total)	mg/Kg	29.3/= /J	16.7/= /J	29.7/= /J
SW6010B	Potassium (total)	mg/Kg	787/= /J	656/= /J	1840/= /J
SW6010B	Selenium (total)	mg/Kg	1.33 ND/U	1.41 ND/U	1.10 ND/U
SW6010B	Silver (total)	mg/Kg	0.108 ND/U	0.115 ND/U	0.0896 ND/U
SW6010B	Sodium (total)	mg/Kg	93.7/TR/J	92.8/TR/J	173/=
SW6010B	Thallium (total)	mg/Kg	1.12 ND/U	1.83/TR/J	0.931 ND/U
SW6010B	Vanadium (total)	mg/Kg	27.2/= /J	17.7/= /J	23.7/= /J

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SW6010B	Zinc (total)	mg/Kg	59.8/= /J	39.5/= /J	66.1/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	52.0 ND/U	19.5 ND/U	9.94 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	218 ND/U	81.7 ND/U	41.7 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	118 ND/U	44.0 ND/U	22.5 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	113 ND/U	42.1 ND/U	21.5 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	115 ND/U	43.1 ND/U	22.0 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	99.9 ND/U	37.4 ND/U	19.1 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	27.9 ND/UJ	12.7/TR/J	5.33 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	56.3 ND/U	55.3 ND/U	54.3 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	56.0 ND/U	54.9 ND/U	54.0 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	38.2 ND/U	37.5 ND/U	36.8 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	41.6 ND/U	40.8 ND/U	40.1 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	333 ND/U	327 ND/U	321 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	582 ND/U	571 ND/U	561 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	140 ND/U	138 ND/U	135 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	169 ND/UJ	166 ND/UJ	163 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	452 ND/U	443 ND/U	436 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	131 ND/U	129 ND/U	127 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	178 ND/U	174 ND/U	171 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	41.6 ND/U	40.8 ND/U	40.1 ND/U
SW8270C	2-Chlorophenol	ug/Kg	129 ND/U	127 ND/U	124 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	32.7 ND/U	32.1 ND/U	31.5 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	267 ND/U	262 ND/U	257 ND/U
SW8270C	2-Nitroaniline	ug/Kg	232 ND/U	227 ND/U	223 ND/U
SW8270C	2-Nitrophenol	ug/Kg	342 ND/U	335 ND/U	330 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	252 ND/UJ	247 ND/UJ	243 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	229 ND/U	225 ND/U	221 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	173 ND/U	170 ND/U	167 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	468 ND/U	459 ND/U	451 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	322 ND/U	316 ND/U	310 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	104 ND/U	102 ND/U	101 ND/U
SW8270C	4-Nitroaniline	ug/Kg	252 ND/UJ	247 ND/UJ	243 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	169 ND/U	166 ND/U	163 ND/U
SW8270C	Acenaphthene	ug/Kg	14.4 ND/U	14.1 ND/U	13.9 ND/U
SW8270C	Acenaphthylene	ug/Kg	45.7 ND/U	44.8 ND/U	44.1 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	33.3 ND/U	32.7 ND/U	32.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	24.0 ND/U	23.6 ND/U	23.2 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	32.5 ND/U	31.9 ND/U	31.4 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	31.0 ND/U	30.5 ND/U	29.9 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	29.5 ND/U	29.0 ND/U	28.5 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	35.2 ND/U	34.5 ND/U	33.9 ND/U
SW8270C	Benzoic acid	ug/Kg	518 ND/U	509 ND/U	500 ND/U
SW8270C	Benzyl alcohol	ug/Kg	588 ND/U	577 ND/U	567 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	161 ND/U	158 ND/U	156 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	54.3 ND/U	53.3 ND/U	52.4 ND/U
SW8270C	Chrysene	ug/Kg	19.0 ND/U	18.7 ND/U	18.3 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	506 ND/U	496 ND/U	488 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	101 ND/U	99.5 ND/U	97.8 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	24.8 ND/U	24.3 ND/U	23.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	304 ND/U	299 ND/U	293 ND/U
SW8270C	Diethylphthalate	ug/Kg	454 ND/U	446 ND/U	438 ND/U
SW8270C	Dimethylphthalate	ug/Kg	259 ND/U	254 ND/U	250 ND/U
SW8270C	Fluoranthene	ug/Kg	20.7 ND/U	20.3 ND/U	19.9 ND/U
SW8270C	Fluorene	ug/Kg	12.1 ND/U	11.9 ND/U	11.7 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	103 ND/U	101 ND/U	99.5 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	33.7 ND/U	33.0 ND/U	32.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	165 ND/UJ	162 ND/UJ	159 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	64.5 ND/U	63.3 ND/U	62.2 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	31.0 ND/U	30.5 ND/U	29.9 ND/U
SW8270C	Isophorone	ug/Kg	24.0 ND/U	23.6 ND/U	23.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	108 ND/U	106 ND/U	104 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	62.6 ND/U	61.4 ND/U	60.4 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	107 ND/U	105 ND/U	103 ND/U
SW8270C	Naphthalene	ug/Kg	11.9 ND/U	11.6 ND/U	11.4 ND/U
SW8270C	Nitrobenzene	ug/Kg	67.6 ND/U	66.3 ND/U	65.2 ND/U
SW8270C	Pentachlorophenol	ug/Kg	263 ND/U	258 ND/U	253 ND/U
SW8270C	Phenanthrene	ug/Kg	23.2 ND/U	22.7 ND/U	22.3 ND/U
SW8270C	Phenol	ug/Kg	138 ND/U	135 ND/U	133 ND/U
SW8270C	Pyrene	ug/Kg	17.9 ND/U	17.6 ND/U	17.3 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	42.1 ND/U	41.3 ND/U	40.6 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	117 ND/U	115 ND/U	113 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	133 ND/U	130 ND/U	128 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	413 ND/U	405 ND/U	398 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.44 ND/U	1.47 ND/U	1.37 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.618 ND/UJ	0.632 ND/UJ	0.589 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.55 ND/U	1.59 ND/U	1.48 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.767 ND/U	0.785 ND/U	0.731 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.840 ND/U	0.860 ND/U	0.802 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.74 ND/U	1.78 ND/U	1.66 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.924 ND/UJ	0.946 ND/UJ	0.881 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.17 ND/UJ	1.20 ND/UJ	1.12 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.67 ND/UJ	1.71 ND/UJ	1.59 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.645 ND/U	0.660 ND/U	0.615 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.02 ND/UJ	1.05 ND/UJ	0.976 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.745 ND/U	0.763 ND/U	0.711 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.323 ND/U	0.330 ND/U	0.308 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.13 ND/UJ	1.15 ND/UJ	1.08 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.03 ND/UJ	1.05 ND/UJ	0.983 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	6.34/TR/J	1.21 ND/U	1.13 ND/U
SW8260B	2-Hexanone	ug/Kg	0.931 ND/U	0.953 ND/U	0.888 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.02 ND/UJ	1.05 ND/UJ	0.974 ND/UJ
SW8260B	Acetone	ug/Kg	1.73 ND/U	1.77 ND/U	1.65 ND/U
SW8260B	Benzene	ug/Kg	9.11/= /J	4.63/TR/J	3.12/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.03 ND/U	1.05 ND/U	0.981 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.948 ND/U	0.970 ND/U	0.904 ND/U
SW8260B	Bromoform	ug/Kg	1.04 ND/U	1.07 ND/U	0.997 ND/U
SW8260B	Bromomethane	ug/Kg	1.49 ND/U	1.53 ND/U	1.42 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.48 ND/U	1.51 ND/U	1.41 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.31 ND/U	1.34 ND/U	1.25 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.03 ND/U	1.06 ND/U	0.987 ND/U
SW8260B	Chloroethane	ug/Kg	1.63 ND/U	1.67 ND/U	1.56 ND/U
SW8260B	Chloroform	ug/Kg	0.346 ND/U	0.354 ND/U	0.330 ND/U
SW8260B	Chloromethane	ug/Kg	1.49 ND/U	1.53 ND/U	1.42 ND/U
SW8260B	Cyclohexane	ug/Kg	8.95/=	6.75/=	6.17/=
SW8260B	Dibromochloromethane	ug/Kg	1.22 ND/U	1.25 ND/U	1.16 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.84 ND/U	1.89 ND/U	1.76 ND/U
SW8260B	Ethylbenzene	ug/Kg	5.25/=	4.45/TR/J	0.894/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.41 ND/UJ	1.44 ND/UJ	1.34 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	3.61 ND/UJ	3.70 ND/UJ	3.44 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	8.49/=	7.46/=	6.62/=

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SW8260B	Methylene Chloride	ug/Kg	1.02 ND/U	1.04 ND/U	0.971 ND/U
SW8260B	Styrene	ug/Kg	0.946 ND/U	0.968 ND/U	0.902 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.965 ND/U	0.988 ND/U	0.921 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.54 ND/U	1.58 ND/U	1.47 ND/U
SW8260B	Toluene	ug/Kg	22.8/=	14.4/=	4.76/TR/J
SW8260B	Trichloroethene (TCE)	ug/Kg	1.36 ND/U	1.39 ND/U	1.29 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.454 ND/U	0.465 ND/U	0.433 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.48 ND/U	1.51 ND/U	1.41 ND/U
SW8260B	Xylenes, Total	ug/Kg	13.6/=	10.6/=	3.15/TR/J
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.908 ND/U	0.930 ND/U	0.867 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.03 ND/U	1.06 ND/U	0.987 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.32 ND/U	1.36 ND/U	1.26 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.780 ND/U	0.799 ND/U	0.744 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-24-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-24-A(3-5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-24-A(8-10) 11/5/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	13.4/=	16.8/=	18.5/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0305 ND/U	0.0311 ND/U	0.0308 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0295 ND/U	0.0301 ND/U	0.0298 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0409 ND/U	0.0417 ND/U	0.0413 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0677 ND/U	0.0691 ND/U	0.0684 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0625 ND/U	0.0637 ND/U	0.0631 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0487 ND/U	0.0497 ND/U	0.0492 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.105 ND/U	0.104 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.140 ND/U	0.143 ND/U	0.142 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0609 ND/U	0.0621 ND/U	0.0615 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.104 ND/U	0.103 ND/U
SW8330	HMX	mg/Kg	0.0275 ND/U	0.0280 ND/U	0.0277 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0524 ND/U	0.0534 ND/U	0.0529 ND/U
SW8330	RDX	mg/Kg	0.0352 ND/U	0.0359 ND/U	0.0355 ND/U
SW8330	Tetryl	mg/Kg	0.0970 ND/U	0.0989 ND/U	0.0979 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	3570/=	5870/=	3480/=
SW6010B	Antimony (total)	mg/Kg	0.683 ND/U	0.771/TR/J	0.713 ND/U
SW6010B	Arsenic (total)	mg/Kg	2.29/TR/J	3.63/=	2.58/TR/J
SW6010B	Barium (total)	mg/Kg	22.8/=	31.6/=	26.2/=
SW6010B	Beryllium (total)	mg/Kg	0.0998/TR/J	0.232/TR/J	0.147/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.158/TR/J	0.154/TR/J	0.230/TR/J
SW6010B	Calcium (total)	mg/Kg	6820/=	2710/=	53300/=
SW6010B	Chromium (total)	mg/Kg	5.48/= /J	11.0/= /J	6.50/= /J
SW6010B	Cobalt (total)	mg/Kg	2.92/=	4.58/=	5.26/=
SW6010B	Copper (total)	mg/Kg	3.95/= /J	13.7/= /J	14.0/= /J
SW6010B	Iron (total)	mg/Kg	7960/=	14600/=	12900/=
SW6010B	Lead (total)	mg/Kg	25.2/= /J	10.8/= /J	8.35/= /J
SW6010B	Magnesium (total)	mg/Kg	1710/=	2000/=	16000/=
SW6010B	Manganese (total)	mg/Kg	181/=	96.5/=	326/=
SW7471A	Mercury (total)	mg/Kg	0.0047 ND/U	0.0056 ND/U	0.0045 ND/U
SW6010B	Nickel (total)	mg/Kg	7.05/= /J	14.7/= /J	13.2/= /J
SW6010B	Potassium (total)	mg/Kg	292/=	573/=	702/=
SW6010B	Selenium (total)	mg/Kg	1.23 ND/U	1.16 ND/U	2.58 ND/U
SW6010B	Silver (total)	mg/Kg	0.101 ND/U	0.0948 ND/U	0.216/TR/J
SW6010B	Sodium (total)	mg/Kg	35.2/TR/J	54.0/TR/J	91.0/TR/J
SW6010B	Thallium (total)	mg/Kg	4.14/=	2.64/=	1.09 ND/U
SW6010B	Vanadium (total)	mg/Kg	10.7/=	15.4/=	11.3/=

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SW6010B	Zinc (total)	mg/Kg	28.7/= /J	37.2/= /J	33.8/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	43.4 ND/U	9.88 ND/U	9.72 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	182 ND/U	41.4 ND/U	40.7 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	98.2 ND/U	22.3 ND/U	22.0 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	93.9 ND/U	21.4 ND/U	21.0 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	96.1 ND/U	21.9 ND/U	21.5 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	83.4 ND/U	19.0 ND/U	18.7 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	148/TR/J	5.30 ND/U	5.21 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.6 ND/U	52.7 ND/U	53.8 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.3 ND/U	52.4 ND/U	53.5 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.0 ND/U	35.7 ND/U	36.5 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.1 ND/U	38.9 ND/U	39.7 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	305 ND/U	312 ND/U	318 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	533 ND/U	545 ND/U	556 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	128 ND/U	131 ND/U	134 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	155 ND/U	158 ND/U	162 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	414 ND/U	423 ND/U	432 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	120 ND/U	123 ND/U	126 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	163 ND/U	166 ND/U	170 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.1 ND/U	38.9 ND/U	39.7 ND/U
SW8270C	2-Chlorophenol	ug/Kg	118 ND/U	121 ND/U	123 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	29.9 ND/U	30.6 ND/U	31.2 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	244 ND/U	250 ND/U	255 ND/U
SW8270C	2-Nitroaniline	ug/Kg	212 ND/U	217 ND/U	221 ND/U
SW8270C	2-Nitrophenol	ug/Kg	313 ND/UJ	320 ND/UJ	327 ND/UJ
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	708 ND/U	723 ND/U	738 ND/U
SW8270C	3-Nitroaniline	ug/Kg	231 ND/U	236 ND/U	240 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	210 ND/U	214 ND/U	219 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	158 ND/U	162 ND/U	165 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	429 ND/U	438 ND/U	447 ND/U
SW8270C	4-Chloroaniline	ug/Kg	198 ND/UJ	203 ND/UJ	207 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	295 ND/U	301 ND/U	307 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	95.7 ND/U	97.7 ND/U	99.8 ND/U
SW8270C	4-Nitroaniline	ug/Kg	231 ND/UJ	236 ND/UJ	240 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	155 ND/U	158 ND/U	162 ND/U
SW8270C	Acenaphthene	ug/Kg	13.2 ND/U	13.5 ND/U	13.8 ND/U
SW8270C	Acenaphthylene	ug/Kg	41.9 ND/U	42.8 ND/U	43.7 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	30.5 ND/U	31.2 ND/U	31.8 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.0 ND/U	22.5 ND/U	23.0 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	29.8 ND/U	30.5 ND/U	31.1 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.5 ND/U	29.1 ND/U	29.7 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	74.5/TR/J	27.7 ND/U	28.2 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.2 ND/U	32.9 ND/U	33.6 ND/U
SW8270C	Benzoic acid	ug/Kg	475 ND/U	485 ND/U	495 ND/U
SW8270C	Benzyl alcohol	ug/Kg	539 ND/U	551 ND/U	562 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	535/=	307/TR/J	154 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	49.8 ND/U	50.9 ND/U	51.9 ND/U
SW8270C	Chrysene	ug/Kg	17.4 ND/U	17.8 ND/U	18.2 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	463 ND/U	474 ND/U	483 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	92.9 ND/U	94.9 ND/U	96.9 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.7 ND/U	23.2 ND/U	23.7 ND/U
SW8270C	Dibenzofuran	ug/Kg	279 ND/U	285 ND/U	291 ND/U
SW8270C	Diethylphthalate	ug/Kg	416 ND/U	425 ND/U	434 ND/U
SW8270C	Dimethylphthalate	ug/Kg	237 ND/U	243 ND/U	248 ND/U
SW8270C	Fluoranthene	ug/Kg	59.6/TR/J	19.3 ND/U	19.7 ND/U
SW8270C	Fluorene	ug/Kg	11.1 ND/U	11.3 ND/U	11.6 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	94.5 ND/U	96.6 ND/U	98.6 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.9 ND/U	31.5 ND/U	32.2 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	151 ND/UJ	155 ND/UJ	158 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.1 ND/U	60.4 ND/U	61.6 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	61.3/TR/J	29.1 ND/U	29.7 ND/U
SW8270C	Isophorone	ug/Kg	22.0 ND/U	22.5 ND/U	23.0 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.1 ND/U	101 ND/U	103 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.4 ND/U	58.6 ND/U	59.8 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	97.7 ND/U	99.9 ND/U	102 ND/U
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	11.1 ND/U	11.3 ND/U
SW8270C	Nitrobenzene	ug/Kg	62.0 ND/U	63.3 ND/U	64.6 ND/U
SW8270C	Pentachlorophenol	ug/Kg	241 ND/U	246 ND/U	251 ND/U
SW8270C	Phenanthrene	ug/Kg	21.2 ND/U	21.7 ND/U	22.1 ND/U
SW8270C	Phenol	ug/Kg	126 ND/U	129 ND/U	132 ND/U
SW8270C	Pyrene	ug/Kg	74.0/TR/J	16.8 ND/U	17.1 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.5 ND/U	39.4 ND/U	40.2 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	110 ND/U	112 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-24-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-24-A(3-5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-24-A(8-10) 11/5/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	124 ND/U	127 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	379 ND/U	387 ND/U	395 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.32 ND/U	1.45 ND/U	1.43 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.566 ND/U	0.621 ND/U	0.616 ND/UJ
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.42 ND/U	1.56 ND/U	1.55 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.703 ND/U	0.770 ND/U	0.764 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.770 ND/U	0.844 ND/U	0.837 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.59 ND/U	1.75 ND/U	1.73 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.847 ND/U	0.928 ND/U	0.921 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.07 ND/U	1.17 ND/U	1.17 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.53 ND/U	1.67 ND/U	1.66 ND/UJ
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.591 ND/U	0.648 ND/U	0.642 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.938 ND/U	1.03 ND/U	1.02 ND/UJ
SW8260B	1,2-Dichloroethane	ug/Kg	0.683 ND/U	0.749 ND/U	0.742 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.296 ND/U	0.324 ND/U	0.322 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.03 ND/U	1.13 ND/U	1.12 ND/UJ
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.944 ND/U	1.04 ND/U	1.03 ND/UJ
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.08 ND/U	20.0/=	1.18 ND/U
SW8260B	2-Hexanone	ug/Kg	0.853 ND/U	0.936 ND/U	0.928 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.936 ND/U	1.03 ND/U	1.02 ND/UJ
SW8260B	Acetone	ug/Kg	1.58 ND/U	148/=	1.72 ND/U
SW8260B	Benzene	ug/Kg	0.830 ND/U	0.910 ND/U	6.45/=
SW8260B	Bromochloromethane	ug/Kg	0.942 ND/U	1.03 ND/U	1.02 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.868 ND/U	0.952 ND/U	0.944 ND/U
SW8260B	Bromoform	ug/Kg	0.958 ND/U	1.05 ND/U	1.04 ND/U
SW8260B	Bromomethane	ug/Kg	1.37 ND/U	1.50 ND/U	1.48 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.36 ND/U	1.49 ND/U	1.47 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.20 ND/U	1.32 ND/U	1.31 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.948 ND/U	1.04 ND/U	1.03 ND/U
SW8260B	Chloroethane	ug/Kg	1.50 ND/U	1.64 ND/U	1.63 ND/U
SW8260B	Chloroform	ug/Kg	0.317 ND/U	0.347 ND/U	0.344 ND/U
SW8260B	Chloromethane	ug/Kg	1.37 ND/U	1.50 ND/U	1.48 ND/U
SW8260B	Cyclohexane	ug/Kg	1.56 ND/U	1.72 ND/U	7.37/=
SW8260B	Dibromochloromethane	ug/Kg	1.12 ND/U	1.23 ND/U	1.22 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.69 ND/U	1.85 ND/U	1.84 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.631 ND/U	0.692 ND/U	2.12/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.29 ND/U	1.41 ND/U	1.40 ND/UJ
SW8260B	Methyl Acetate	ug/Kg	3.31 ND/UJ	3.63 ND/UJ	3.60 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.730 ND/U	0.801 ND/U	7.55/=

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SW8260B	Methylene Chloride	ug/Kg	0.933 ND/U	1.02 ND/U	1.01 ND/U
SW8260B	Styrene	ug/Kg	0.867 ND/U	0.950 ND/U	0.942 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.885 ND/U	0.970 ND/U	0.962 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.41 ND/U	1.55 ND/U	1.54 ND/U
SW8260B	Toluene	ug/Kg	0.744 ND/U	0.816 ND/U	12.7/=
SW8260B	Trichloroethene (TCE)	ug/Kg	1.24 ND/U	1.36 ND/U	1.35 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.416 ND/U	0.456 ND/U	0.453 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.36 ND/U	1.49 ND/U	1.47 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.06 ND/U	1.16 ND/U	5.74/=
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.832 ND/U	0.913 ND/U	0.905 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.948 ND/U	1.04 ND/U	1.03 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.21 ND/U	1.33 ND/U	1.32 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.715 ND/U	0.784 ND/U	0.777 ND/U

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	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	16.1/=	16.7/=	18.0/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0306 ND/U	0.0311 ND/U	0.0306 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0297 ND/U	0.0301 ND/U	0.0297 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0411 ND/U	0.0417 ND/U	0.0411 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0681 ND/U	0.0691 ND/U	0.0681 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0628 ND/U	0.0637 ND/U	0.0628 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0490 ND/U	0.0497 ND/U	0.0490 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.105 ND/U	0.103 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.141 ND/U	0.143 ND/U	0.141 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0612 ND/U	0.0621 ND/U	0.0612 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.104 ND/U	0.102 ND/U
SW8330	HMX	mg/Kg	0.0276 ND/U	0.0280 ND/U	0.0276 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0526 ND/U	0.0534 ND/U	0.0526 ND/U
SW8330	RDX	mg/Kg	0.0354 ND/U	0.0359 ND/U	0.0354 ND/U
SW8330	Tetryl	mg/Kg	0.0974 ND/U	0.0989 ND/U	0.0974 ND/U
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9870/=	4170/=	6750/=
SW6010B	Antimony (total)	mg/Kg	1.02/TR/J	0.698 ND/U	0.761 ND/U
SW6010B	Arsenic (total)	mg/Kg	5.62/=	1.86/TR/J	0.627 ND/U
SW6010B	Barium (total)	mg/Kg	48.4/=	26.5/=	40.1/=
SW6010B	Beryllium (total)	mg/Kg	0.421/=	0.164/TR/J	0.273/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.223/TR/J	0.273/TR/J	0.309/TR/J
SW6010B	Calcium (total)	mg/Kg	6540/=	43500/=	55000/=
SW6010B	Chromium (total)	mg/Kg	16.1/= /J	7.45/= /J	11.8/= /J
SW6010B	Cobalt (total)	mg/Kg	5.43/=	4.65/=	7.89/=
SW6010B	Copper (total)	mg/Kg	15.2/= /J	11.2/= /J	16.8/= /J
SW6010B	Iron (total)	mg/Kg	18600/=	11800/=	16700/=
SW6010B	Lead (total)	mg/Kg	15.1/= /J	8.10/= /J	10.4/= /J
SW6010B	Magnesium (total)	mg/Kg	3240/=	12500/=	19000/=
SW6010B	Manganese (total)	mg/Kg	163/=	344/=	467/=
SW7471A	Mercury (total)	mg/Kg	0.0096/TR/J	0.0050 ND/U	0.0046 ND/U
SW6010B	Nickel (total)	mg/Kg	16.8/= /J	14.4/= /J	20.7/= /J
SW6010B	Potassium (total)	mg/Kg	482/=	490/=	1330/=
SW6010B	Selenium (total)	mg/Kg	0.935 ND/U	2.52 ND/U	2.81/TR/J
SW6010B	Silver (total)	mg/Kg	0.0762 ND/U	0.122/TR/J	0.240/TR/J
SW6010B	Sodium (total)	mg/Kg	34.9/TR/J	70.4/TR/J	121/TR/J
SW6010B	Thallium (total)	mg/Kg	3.42/=	1.50/TR/J	1.16 ND/U
SW6010B	Vanadium (total)	mg/Kg	23.3/=	14.8/=	18.7/=

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SW6010B	Zinc (total)	mg/Kg	39.2/= /J	31.6/= /J	45.5/= /J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	46.1 ND/U	9.65 ND/U	9.51 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	193 ND/U	40.4 ND/U	39.9 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	104 ND/U	21.8 ND/U	21.5 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	99.7 ND/U	20.9 ND/U	20.6 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	102 ND/U	21.3 ND/U	21.0 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	88.5 ND/U	18.5 ND/U	18.3 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	140/TR/J	5.17 ND/U	5.10 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.7 ND/U	53.4 ND/U	54.3 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.4 ND/U	53.1 ND/U	54.0 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.0 ND/U	36.2 ND/U	36.8 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.1 ND/U	39.4 ND/U	40.1 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	306 ND/U	316 ND/U	321 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	534 ND/U	552 ND/U	561 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	129 ND/U	133 ND/U	135 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	155 ND/U	160 ND/U	163 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	415 ND/U	428 ND/U	436 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	121 ND/U	125 ND/U	127 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	163 ND/U	169 ND/U	171 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	38.1 ND/U	39.4 ND/U	40.1 ND/U
SW8270C	2-Chlorophenol	ug/Kg	118 ND/U	122 ND/U	124 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.0 ND/U	31.0 ND/U	31.5 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	245 ND/U	253 ND/U	257 ND/U
SW8270C	2-Nitroaniline	ug/Kg	213 ND/U	220 ND/U	223 ND/U
SW8270C	2-Nitrophenol	ug/Kg	314 ND/UJ	324 ND/UJ	330 ND/UJ
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	709 ND/U	732 ND/U	745 ND/U
SW8270C	3-Nitroaniline	ug/Kg	231 ND/U	239 ND/U	243 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	210 ND/U	217 ND/U	221 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	159 ND/U	164 ND/U	167 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	430 ND/U	444 ND/U	452 ND/U
SW8270C	4-Chloroaniline	ug/Kg	199 ND/UJ	205 ND/UJ	209 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	295 ND/U	305 ND/U	310 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	95.8 ND/U	99.0 ND/U	101 ND/U
SW8270C	4-Nitroaniline	ug/Kg	231 ND/UJ	239 ND/UJ	243 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	155 ND/U	160 ND/U	163 ND/U
SW8270C	Acenaphthene	ug/Kg	13.2 ND/U	13.6 ND/U	13.9 ND/U
SW8270C	Acenaphthylene	ug/Kg	41.9 ND/U	43.3 ND/U	44.1 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	30.6 ND/U	31.6 ND/U	32.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.1 ND/U	22.8 ND/U	23.2 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	29.9 ND/U	30.9 ND/U	31.4 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.5 ND/U	29.4 ND/U	29.9 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.1 ND/U	28.0 ND/U	28.5 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.3 ND/U	33.3 ND/U	33.9 ND/U
SW8270C	Benzoic acid	ug/Kg	476 ND/U	491 ND/U	500 ND/U
SW8270C	Benzyl alcohol	ug/Kg	540 ND/U	558 ND/U	567 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	148 ND/U	153 ND/U	156 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	49.9 ND/U	51.5 ND/U	52.4 ND/U
SW8270C	Chrysene	ug/Kg	17.5 ND/U	18.0 ND/U	18.4 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	464 ND/U	479 ND/U	488 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	93.1 ND/U	96.1 ND/U	97.8 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.7 ND/U	23.5 ND/U	23.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	279 ND/U	288 ND/U	293 ND/U
SW8270C	Diethylphthalate	ug/Kg	417 ND/U	431 ND/U	438 ND/U
SW8270C	Dimethylphthalate	ug/Kg	238 ND/U	246 ND/U	250 ND/U
SW8270C	Fluoranthene	ug/Kg	19.0 ND/U	19.6 ND/U	19.9 ND/U
SW8270C	Fluorene	ug/Kg	11.1 ND/U	11.5 ND/U	11.7 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	94.7 ND/U	97.8 ND/U	99.5 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	30.9 ND/U	31.9 ND/U	32.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	152 ND/UJ	157 ND/UJ	159 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.2 ND/U	61.1 ND/U	62.2 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	28.5 ND/U	29.4 ND/U	29.9 ND/U
SW8270C	Isophorone	ug/Kg	22.1 ND/U	22.8 ND/U	23.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.3 ND/U	103 ND/U	104 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.4 ND/U	59.3 ND/U	60.4 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	97.9 ND/U	101 ND/U	103 ND/U
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	11.2 ND/U	11.4 ND/U
SW8270C	Nitrobenzene	ug/Kg	62.0 ND/U	64.1 ND/U	65.2 ND/U
SW8270C	Pentachlorophenol	ug/Kg	241 ND/U	249 ND/U	254 ND/U
SW8270C	Phenanthrene	ug/Kg	21.3 ND/U	22.0 ND/U	22.3 ND/U
SW8270C	Phenol	ug/Kg	126 ND/U	131 ND/U	133 ND/U
SW8270C	Pyrene	ug/Kg	16.4 ND/U	17.0 ND/U	17.3 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.6 ND/U	39.9 ND/U	40.6 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	111 ND/U	113 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	126 ND/U	128 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	379 ND/U	392 ND/U	398 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.51 ND/U	1.33 ND/U	1.43 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.648 ND/U	0.572 ND/U	0.613 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.63 ND/U	1.44 ND/U	1.54 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.804 ND/U	0.711 ND/U	0.761 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.881 ND/U	0.779 ND/U	0.834 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.82 ND/U	1.61 ND/U	1.72 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.969 ND/U	0.856 ND/U	0.917 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.23 ND/U	1.08 ND/U	1.16 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.75 ND/U	1.54 ND/U	1.65 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.676 ND/U	0.597 ND/U	0.640 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.07 ND/U	0.948 ND/U	1.02 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.782 ND/U	0.690 ND/U	0.739 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.339 ND/U	0.299 ND/U	0.320 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.18 ND/U	1.05 ND/U	1.12 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.08 ND/U	0.955 ND/U	1.02 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.24 ND/U	1.09 ND/U	1.17 ND/U
SW8260B	2-Hexanone	ug/Kg	0.977 ND/U	0.863 ND/U	0.924 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.07 ND/U	0.946 ND/U	1.01 ND/U
SW8260B	Acetone	ug/Kg	1.81 ND/U	1.60 ND/U	1.71 ND/U
SW8260B	Benzene	ug/Kg	4.61/TR/J	2.23/TR/J	1.22/TR/J
SW8260B	Bromochloromethane	ug/Kg	1.08 ND/U	0.953 ND/U	1.02 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.994 ND/U	0.878 ND/U	0.940 ND/U
SW8260B	Bromoform	ug/Kg	1.10 ND/U	0.968 ND/U	1.04 ND/U
SW8260B	Bromomethane	ug/Kg	1.56 ND/U	1.38 ND/U	1.48 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.55 ND/U	3.88/TR/J	1.47 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.38 ND/U	1.22 ND/U	1.30 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.09 ND/U	0.959 ND/U	1.03 ND/U
SW8260B	Chloroethane	ug/Kg	1.72 ND/U	1.51 ND/U	1.62 ND/U
SW8260B	Chloroform	ug/Kg	0.363 ND/U	0.320 ND/U	0.343 ND/U
SW8260B	Chloromethane	ug/Kg	1.56 ND/U	1.38 ND/U	1.48 ND/U
SW8260B	Cyclohexane	ug/Kg	8.22/=	4.47/TR/J	4.33/TR/J
SW8260B	Dibromochloromethane	ug/Kg	1.28 ND/U	1.13 ND/U	1.21 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.93 ND/U	1.71 ND/U	1.83 ND/U
SW8260B	Ethylbenzene	ug/Kg	2.56/TR/J	1.29/TR/J	0.684 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.48 ND/U	1.30 ND/U	1.40 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.79 ND/UJ	3.35 ND/UJ	3.58 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	9.29/=	5.38/=	4.51/TR/J

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-25-A(0.5-1.5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-25-A(3-5) 11/5/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-25-A(8-10) 11/5/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.07 ND/U	0.944 ND/U	1.01 ND/U
SW8260B	Styrene	ug/Kg	0.992 ND/U	0.876 ND/U	0.938 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.01 ND/U	0.895 ND/U	0.958 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.62 ND/U	1.43 ND/U	1.53 ND/U
SW8260B	Toluene	ug/Kg	10.8/=	5.26/=	1.60/TR/J
SW8260B	Trichloroethene (TCE)	ug/Kg	1.42 ND/U	1.26 ND/U	1.34 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.477 ND/U	0.421 ND/U	0.451 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.55 ND/U	1.37 ND/U	1.47 ND/U
SW8260B	Xylenes, Total	ug/Kg	7.20/=	3.57/TR/J	1.15 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.953 ND/U	0.842 ND/U	0.901 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.09 ND/U	0.959 ND/U	1.03 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.39 ND/U	1.23 ND/U	1.31 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.818 ND/U	0.723 ND/U	0.774 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-26-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-26-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-27-A(0.5-1.5) 11/8/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	15.8/=	17.6/=	18.0/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0309 ND/U	0.0303 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0300 ND/U	0.0294 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0415 ND/U	0.0407 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0688 ND/U	0.0674 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.0634 ND/U	0.0621 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0495 ND/U	0.0485 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.104 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.142 ND/U	0.140 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0618 ND/U	0.0606 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.101 ND/U
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0279 ND/U	0.0273 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0531 ND/U	0.0521 ND/U
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0357 ND/U	0.0350 ND/U
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0984 ND/UJ	0.0965 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	5590/=	8290/=	10100/=
SW6010B	Antimony (total)	mg/Kg	0.799 ND/UJ	0.671 ND/UJ	0.666/TR/J
SW6010B	Arsenic (total)	mg/Kg	3.90/= /J	7.10/= /J	8.54/= /J
SW6010B	Barium (total)	mg/Kg	24.2/=	51.0/=	56.3/=
SW6010B	Beryllium (total)	mg/Kg	0.106/TR/J	0.307/TR/J	0.396/=
SW6010B	Cadmium (total)	mg/Kg	0.106/TR/J	0.301/TR/J	0.313/TR/J
SW6010B	Calcium (total)	mg/Kg	1210/= /J	54500/= /J	12900/= /J
SW6010B	Chromium (total)	mg/Kg	7.29/=	12.3/=	15.7/=
SW6010B	Cobalt (total)	mg/Kg	2.92/=	8.42/=	6.92/=
SW6010B	Copper (total)	mg/Kg	4.24/=	18.9/=	15.6/=
SW6010B	Iron (total)	mg/Kg	9590/=	18500/=	20000/=
SW6010B	Lead (total)	mg/Kg	5.79/=	10.8/=	17.4/=
SW6010B	Magnesium (total)	mg/Kg	864/= /J	17700/= /J	4340/= /J
SW6010B	Manganese (total)	mg/Kg	144/= /J	466/= /J	263/= /J
SW7471A	Mercury (total)	mg/Kg	0.0134/TR/J	0.0051 ND/U	0.0244/TR/J
SW6010B	Nickel (total)	mg/Kg	5.38/=	22.3/=	19.1/=
SW6010B	Potassium (total)	mg/Kg	251/= /J	1430/= /J	1190/= /J
SW6010B	Selenium (total)	mg/Kg	1.44 ND/U	1.21 ND/U	0.982 ND/U
SW6010B	Silver (total)	mg/Kg	0.118 ND/U	0.116/TR/J	0.0800 ND/U
SW6010B	Sodium (total)	mg/Kg	34.4/TR/J	117/TR/J	59.3/TR/J
SW6010B	Thallium (total)	mg/Kg	1.84/TR/J	1.03 ND/U	4.07/=
SW6010B	Vanadium (total)	mg/Kg	15.9/=	22.2/=	28.1/=

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SW6010B	Zinc (total)	mg/Kg	17.8/=	46.3/=	65.8/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.03 ND/U	9.79 ND/U	9.13 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	37.9 ND/U	41.0 ND/U	38.3 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	20.4 ND/U	22.1 ND/U	20.6 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	19.5 ND/U	21.2 ND/U	19.8 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	20.0 ND/U	21.7 ND/U	20.2 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	45.8/TR/J	18.8 ND/U	17.5 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	61.0/TR/J	5.25 ND/U	28.3/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	53.1 ND/U	54.3 ND/U	54.4 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	52.7 ND/U	53.9 ND/U	54.0 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.0 ND/U	36.8 ND/U	36.8 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.2 ND/U	40.1 ND/U	40.1 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	314 ND/U	321 ND/U	321 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	548 ND/U	561 ND/U	562 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	132 ND/U	135 ND/U	135 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	159 ND/U	163 ND/U	163 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	426 ND/U	435 ND/U	436 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	124 ND/U	127 ND/U	127 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	167 ND/U	171 ND/U	172 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.2 ND/U	40.1 ND/U	40.1 ND/U
SW8270C	2-Chlorophenol	ug/Kg	121 ND/U	124 ND/U	124 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.8 ND/U	31.5 ND/U	106/TR/J
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	251 ND/U	257 ND/U	257 ND/U
SW8270C	2-Nitroaniline	ug/Kg	218 ND/U	223 ND/U	223 ND/U
SW8270C	2-Nitrophenol	ug/Kg	322 ND/U	329 ND/U	330 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	728 ND/UJ	744 ND/UJ	745 ND/UJ
SW8270C	3-Nitroaniline	ug/Kg	237 ND/U	242 ND/U	243 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	216 ND/U	221 ND/U	221 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	163 ND/U	166 ND/U	167 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	441 ND/U	451 ND/U	452 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	303 ND/U	310 ND/U	310 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	98.4 ND/U	101 ND/U	101 ND/U
SW8270C	4-Nitroaniline	ug/Kg	237 ND/U	242 ND/U	243 ND/U
SW8270C	4-Nitrophenol	ug/Kg	159 ND/U	163 ND/U	163 ND/U
SW8270C	Acenaphthene	ug/Kg	13.6 ND/U	13.9 ND/U	13.9 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.0 ND/U	44.0 ND/U	44.1 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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SW8270C	Anthracene	ug/Kg	31.4 ND/U	32.1 ND/U	32.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	94.3/TR/J
SW8270C	Benzo(a)anthracene	ug/Kg	22.6 ND/U	23.2 ND/U	97.1/TR/J
SW8270C	Benzo(a)pyrene	ug/Kg	30.7 ND/U	31.4 ND/U	63.8/TR/J
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.2 ND/U	29.9 ND/U	127/TR/J
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.8 ND/U	28.5 ND/U	28.5 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.1 ND/U	33.9 ND/U	67.7/TR/J
SW8270C	Benzoic acid	ug/Kg	488 ND/U	499 ND/U	500 ND/U
SW8270C	Benzyl alcohol	ug/Kg	554 ND/U	567 ND/U	568 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	152 ND/U	156 ND/U	560/=
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	51.2 ND/U	52.4 ND/U	52.4 ND/U
SW8270C	Chrysene	ug/Kg	17.9 ND/U	18.3 ND/U	108/TR/J
SW8270C	Di-n-butylphthalate	ug/Kg	476 ND/U	487 ND/U	488 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	95.5 ND/U	97.7 ND/U	97.9 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.4 ND/U	23.9 ND/U	23.9 ND/U
SW8270C	Dibenzofuran	ug/Kg	287 ND/U	293 ND/U	294 ND/U
SW8270C	Diethylphthalate	ug/Kg	428 ND/U	438 ND/U	439 ND/U
SW8270C	Dimethylphthalate	ug/Kg	244 ND/U	250 ND/U	250 ND/U
SW8270C	Fluoranthene	ug/Kg	19.5 ND/U	19.9 ND/U	87.6/TR/J
SW8270C	Fluorene	ug/Kg	11.4 ND/U	11.7 ND/U	11.7 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	97.2 ND/U	99.4 ND/U	99.5 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	31.7 ND/UJ	32.5 ND/U	32.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	156 ND/U	159 ND/UJ	159 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	60.7 ND/U	62.1 ND/U	62.2 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.2 ND/U	29.9 ND/U	30.0 ND/U
SW8270C	Isophorone	ug/Kg	22.6 ND/U	23.2 ND/U	23.2 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	102 ND/U	104 ND/U	104 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	59.0 ND/U	60.3 ND/U	60.4 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	100 ND/U	103 ND/U	103 ND/U
SW8270C	Naphthalene	ug/Kg	11.2 ND/U	11.4 ND/U	78.6/TR/J
SW8270C	Nitrobenzene	ug/Kg	63.7 ND/U	65.1 ND/U	65.2 ND/U
SW8270C	Pentachlorophenol	ug/Kg	248 ND/U	253 ND/U	254 ND/U
SW8270C	Phenanthrene	ug/Kg	21.8 ND/U	22.3 ND/U	85.3/TR/J
SW8270C	Phenol	ug/Kg	130 ND/U	133 ND/U	133 ND/U
SW8270C	Pyrene	ug/Kg	16.9 ND/U	17.3 ND/U	77.8/TR/J
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	39.6 ND/U	40.5 ND/U	40.6 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	111 ND/U	113 ND/U	113 ND/U

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SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	125 ND/U	128 ND/U	128 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	524/=	398 ND/U	399 ND/U
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.46 ND/U	1.59 ND/U	1.48 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.626 ND/U	0.682 ND/U	0.636 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.57 ND/U	1.71 ND/U	1.60 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.777 ND/U	0.847 ND/U	0.790 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.852 ND/U	0.928 ND/U	0.866 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.76 ND/U	1.92 ND/U	1.79 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.937 ND/U	1.02 ND/U	0.952 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.19 ND/U	1.29 ND/U	1.20 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.69 ND/U	1.84 ND/U	1.72 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.654 ND/U	0.712 ND/U	0.664 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.04 ND/U	1.13 ND/U	1.05 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.755 ND/U	0.823 ND/U	0.768 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.327 ND/U	0.357 ND/U	0.333 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.14 ND/U	1.25 ND/U	1.16 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.04 ND/U	1.14 ND/U	1.06 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	5.59/TR/J	1.30 ND/U	1.22 ND/U
SW8260B	2-Hexanone	ug/Kg	0.944 ND/U	1.03 ND/U	0.959 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.04 ND/U	1.13 ND/U	1.05 ND/U
SW8260B	Acetone	ug/Kg	1.75 ND/U	1.91 ND/U	1.78 ND/U
SW8260B	Benzene	ug/Kg	0.918 ND/U	4.16/TR/J	0.933 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.04 ND/U	1.14 ND/U	1.06 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.961 ND/U	1.05 ND/U	0.976 ND/U
SW8260B	Bromoform	ug/Kg	1.06 ND/U	1.15 ND/U	1.08 ND/U
SW8260B	Bromomethane	ug/Kg	1.51 ND/U	1.65 ND/U	1.54 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.50 ND/U	1.63 ND/U	1.52 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.33 ND/U	1.45 ND/U	1.35 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.05 ND/U	1.14 ND/U	1.07 ND/U
SW8260B	Chloroethane	ug/Kg	1.66 ND/U	1.81 ND/U	1.68 ND/U
SW8260B	Chloroform	ug/Kg	0.350 ND/U	0.382 ND/U	0.356 ND/U
SW8260B	Chloromethane	ug/Kg	1.51 ND/U	1.65 ND/U	1.54 ND/U
SW8260B	Cyclohexane	ug/Kg	1.73 ND/U	7.56/=	1.76 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.24 ND/U	1.35 ND/U	1.26 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.87 ND/U	2.03 ND/U	1.90 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.699 ND/U	2.21/TR/J	0.710 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.43 ND/U	1.55 ND/U	1.45 ND/U
SW8260B	Methyl Acetate	ug/Kg	3.66 ND/UJ	3.99 ND/UJ	3.72 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.808 ND/U	8.39/=	0.821 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-26-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-26-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-27-A(0.5-1.5) 11/8/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	1.03 ND/U	1.12 ND/U	1.05 ND/U
SW8260B	Styrene	ug/Kg	0.959 ND/U	1.04 ND/U	0.974 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.979 ND/U	1.07 ND/U	0.995 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.56 ND/U	1.70 ND/U	1.59 ND/U
SW8260B	Toluene	ug/Kg	0.824 ND/U	10.3/=	0.837 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.37 ND/U	1.50 ND/U	1.40 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.461 ND/U	0.502 ND/U	0.468 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.50 ND/U	1.63 ND/U	1.52 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.18 ND/U	6.98/=	1.19 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.921 ND/U	1.00 ND/U	0.936 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.05 ND/U	1.14 ND/U	1.07 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.34 ND/U	1.46 ND/U	1.36 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.791 ND/U	0.862 ND/U	0.804 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-27-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(3-5) 11/8/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	17.8/=	13.9/=	12.8/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0289 ND/U	0.0300 ND/U	0.0311 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0280 ND/U	0.0291 ND/U	0.0301 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0388 ND/U	0.0403 ND/U	0.0417 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0643 ND/U	0.0668 ND/U	0.0691 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0593 ND/U	0.0615 ND/U	0.0637 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0462 ND/U	0.0480 ND/U	0.0497 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.0977 ND/U	0.101 ND/U	0.105 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.133 ND/U	0.138 ND/U	0.143 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0578 ND/U	0.0600 ND/U	0.0621 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.0967 ND/U	0.100 ND/U	0.104 ND/U
SW8330	HMX	mg/Kg	0.0260 ND/U	0.0271 ND/U	0.0280 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0497 ND/U	0.0516 ND/U	0.0534 ND/U
SW8330	RDX	mg/Kg	0.0334 ND/U	0.0347 ND/U	0.0359 ND/U
SW8330	Tetryl	mg/Kg	0.0920 ND/UJ	0.0956 ND/UJ	0.0989 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	9330/=	7140/=	10300/=
SW6010B	Antimony (total)	mg/Kg	0.632 ND/UJ	0.752 ND/UJ	0.849/TR/J
SW6010B	Arsenic (total)	mg/Kg	4.23/= /J	5.15/= /J	8.34/= /J
SW6010B	Barium (total)	mg/Kg	54.6/=	75.5/=	60.9/=
SW6010B	Beryllium (total)	mg/Kg	0.353/TR/J	0.256/TR/J	0.392/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.220/TR/J	0.653/=	0.370/TR/J
SW6010B	Calcium (total)	mg/Kg	3230/= /J	25200/= /J	3660/= /J
SW6010B	Chromium (total)	mg/Kg	13.5/=	11.4/=	15.4/=
SW6010B	Cobalt (total)	mg/Kg	8.67/=	5.67/=	9.34/=
SW6010B	Copper (total)	mg/Kg	10.0/=	16.5/=	16.6/=
SW6010B	Iron (total)	mg/Kg	13000/=	16200/=	19500/=
SW6010B	Lead (total)	mg/Kg	11.6/=	129/=	10.0/=
SW6010B	Magnesium (total)	mg/Kg	2480/= /J	6410/= /J	2990/= /J
SW6010B	Manganese (total)	mg/Kg	241/= /J	328/= /J	347/= /J
SW7471A	Mercury (total)	mg/Kg	0.0623/=	0.0266/TR/J	0.0272/TR/J
SW6010B	Nickel (total)	mg/Kg	18.2/=	16.0/=	27.6/=
SW6010B	Potassium (total)	mg/Kg	901/= /J	792/= /J	1020/= /J
SW6010B	Selenium (total)	mg/Kg	1.14 ND/U	1.36 ND/U	1.09 ND/U
SW6010B	Silver (total)	mg/Kg	0.0931 ND/U	0.111 ND/U	0.0891 ND/U
SW6010B	Sodium (total)	mg/Kg	43.9/TR/J	56.2/TR/J	64.2/TR/J
SW6010B	Thallium (total)	mg/Kg	3.15/=	4.91/=	3.45/=
SW6010B	Vanadium (total)	mg/Kg	19.5/=	19.8/=	24.7/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-27-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(3-5) 11/8/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	41.6/=	124/=	50.3/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.47 ND/U	9.24 ND/U	9.34 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	39.7 ND/U	38.8 ND/U	39.2 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	21.4 ND/U	20.9 ND/U	21.1 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	20.5 ND/U	20.0 ND/U	20.2 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	20.9 ND/U	20.4 ND/U	20.7 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.2 ND/U	17.7 ND/U	17.9 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.08 ND/U	21.1/TR/J	5.01 ND/U
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	53.5 ND/U	52.2 ND/U	51.0 ND/U
SW8270C	1,2-Dichlorobenzene	ug/Kg	53.2 ND/U	51.8 ND/U	50.7 ND/U
SW8270C	1,3-Dichlorobenzene	ug/Kg	36.3 ND/U	35.4 ND/U	34.6 ND/U
SW8270C	1,4-Dichlorobenzene	ug/Kg	39.5 ND/U	38.5 ND/U	37.6 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/Kg	316 ND/U	308 ND/U	301 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	553 ND/U	539 ND/U	527 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	133 ND/U	130 ND/U	127 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	161 ND/UJ	156 ND/UJ	153 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/Kg	430 ND/U	418 ND/U	409 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	125 ND/U	122 ND/U	119 ND/U
SW8270C	2,6-Dinitrotoluene	ug/Kg	169 ND/U	165 ND/U	161 ND/U
SW8270C	2-Chloronaphthalene	ug/Kg	39.5 ND/U	38.5 ND/U	37.6 ND/U
SW8270C	2-Chlorophenol	ug/Kg	123 ND/U	119 ND/U	117 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	31.1 ND/U	30.3 ND/U	29.6 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	253 ND/U	247 ND/U	241 ND/U
SW8270C	2-Nitroaniline	ug/Kg	220 ND/U	214 ND/U	210 ND/U
SW8270C	2-Nitrophenol	ug/Kg	325 ND/U	316 ND/U	309 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	239 ND/UJ	233 ND/UJ	228 ND/UJ
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	218 ND/U	212 ND/U	207 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	164 ND/U	160 ND/U	156 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/Kg	445 ND/U	434 ND/U	424 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	306 ND/U	298 ND/U	291 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	99.2 ND/U	96.7 ND/U	94.5 ND/U
SW8270C	4-Nitroaniline	ug/Kg	239 ND/UJ	233 ND/UJ	228 ND/UJ
SW8270C	4-Nitrophenol	ug/Kg	161 ND/U	156 ND/U	153 ND/U
SW8270C	Acenaphthene	ug/Kg	13.7 ND/U	13.3 ND/U	13.0 ND/U
SW8270C	Acenaphthylene	ug/Kg	43.4 ND/U	42.3 ND/U	41.4 ND/U
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-27-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(3-5) 11/8/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	31.6 ND/U	30.8 ND/U	30.1 ND/U
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzo(a)anthracene	ug/Kg	22.8 ND/U	72.0/TR/J	21.8 ND/U
SW8270C	Benzo(a)pyrene	ug/Kg	30.9 ND/U	69.2/TR/J	29.5 ND/U
SW8270C	Benzo(b)fluoranthene	ug/Kg	29.5 ND/U	107/TR/J	28.1 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/Kg	28.1 ND/U	97.9/TR/J	26.7 ND/U
SW8270C	Benzo(k)fluoranthene	ug/Kg	33.4 ND/U	72.0/TR/J	31.8 ND/U
SW8270C	Benzoic acid	ug/Kg	493 ND/U	480 ND/U	469 ND/U
SW8270C	Benzyl alcohol	ug/Kg	559 ND/U	545 ND/U	533 ND/U
SW8270C	Benzyl butyl phthalate	ug/Kg	153 ND/U	150 ND/U	146 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	51.6 ND/U	50.3 ND/U	49.2 ND/U
SW8270C	Chrysene	ug/Kg	18.1 ND/U	107/TR/J	17.2 ND/U
SW8270C	Di-n-butylphthalate	ug/Kg	481 ND/U	468 ND/U	458 ND/U
SW8270C	Di-n-octylphthalate	ug/Kg	96.4 ND/U	93.9 ND/U	91.8 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/Kg	23.6 ND/U	23.0 ND/U	22.4 ND/U
SW8270C	Dibenzofuran	ug/Kg	289 ND/U	282 ND/U	275 ND/U
SW8270C	Diethylphthalate	ug/Kg	432 ND/U	421 ND/U	411 ND/U
SW8270C	Dimethylphthalate	ug/Kg	246 ND/U	240 ND/U	235 ND/U
SW8270C	Fluoranthene	ug/Kg	19.6 ND/U	139/TR/J	18.7 ND/U
SW8270C	Fluorene	ug/Kg	11.5 ND/U	11.2 ND/U	11.0 ND/U
SW8270C	Hexachlorobenzene	ug/Kg	98.0 ND/U	95.5 ND/U	93.4 ND/U
SW8270C	Hexachlorobutadiene	ug/Kg	32.0 ND/U	31.2 ND/U	30.5 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/Kg	157 ND/UJ	153 ND/UJ	150 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	61.3 ND/U	59.7 ND/U	58.4 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	29.5 ND/U	91.4/TR/J	28.1 ND/U
SW8270C	Isophorone	ug/Kg	22.8 ND/U	22.3 ND/U	21.8 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	103 ND/U	100 ND/U	97.9 ND/U
SW8270C	N-Nitrosodimethylamine	ug/Kg	59.5 ND/U	58.0 ND/U	56.7 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/Kg	101 ND/U	98.8 ND/U	96.5 ND/U
SW8270C	Naphthalene	ug/Kg	11.3 ND/U	11.0 ND/U	10.7 ND/U
SW8270C	Nitrobenzene	ug/Kg	64.2 ND/U	62.6 ND/U	61.2 ND/U
SW8270C	Pentachlorophenol	ug/Kg	250 ND/U	243 ND/U	238 ND/U
SW8270C	Phenanthrene	ug/Kg	22.0 ND/U	21.4 ND/U	21.0 ND/U
SW8270C	Phenol	ug/Kg	131 ND/U	128 ND/U	125 ND/U
SW8270C	Pyrene	ug/Kg	17.0 ND/U	121/TR/J	16.2 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	40.0 ND/U	38.9 ND/U	38.1 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	112 ND/U	109 ND/U	106 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-27-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-28-A(3-5) 11/8/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	126 ND/U	123 ND/U	120 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	393 ND/U	383 ND/U	503/=
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.67 ND/U	1.42 ND/U	1.56 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.716 ND/U	0.609 ND/U	0.671 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.80 ND/U	1.53 ND/U	1.69 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.889 ND/U	0.756 ND/U	0.833 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.974 ND/U	0.829 ND/U	0.913 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	2.02 ND/U	1.71 ND/U	1.89 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.07 ND/U	0.911 ND/U	1.00 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.36 ND/U	1.15 ND/U	1.27 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.93 ND/U	1.64 ND/U	1.81 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.747 ND/U	0.636 ND/U	0.700 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.19 ND/U	1.01 ND/U	1.11 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.864 ND/U	0.735 ND/U	0.809 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.374 ND/U	0.318 ND/U	0.351 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.31 ND/U	1.11 ND/U	1.23 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.19 ND/U	1.02 ND/U	1.12 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	8.78/TR/J	1.16 ND/U	1.28 ND/U
SW8260B	2-Hexanone	ug/Kg	1.08 ND/U	0.919 ND/U	1.01 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.18 ND/U	1.01 ND/U	1.11 ND/U
SW8260B	Acetone	ug/Kg	2.00 ND/U	1.70 ND/U	1.88 ND/U
SW8260B	Benzene	ug/Kg	1.05 ND/U	0.893 ND/U	0.984 ND/U
SW8260B	Bromochloromethane	ug/Kg	1.19 ND/U	1.01 ND/U	1.12 ND/U
SW8260B	Bromodichloromethane	ug/Kg	1.10 ND/U	0.935 ND/U	1.03 ND/U
SW8260B	Bromoform	ug/Kg	1.21 ND/U	1.03 ND/U	1.14 ND/U
SW8260B	Bromomethane	ug/Kg	1.73 ND/U	1.47 ND/U	1.62 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.72 ND/U	1.60/TR/J	1.61 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.52 ND/U	1.30 ND/U	1.43 ND/U
SW8260B	Chlorobenzene	ug/Kg	1.20 ND/U	1.02 ND/U	1.12 ND/U
SW8260B	Chloroethane	ug/Kg	1.90 ND/U	1.61 ND/U	1.78 ND/U
SW8260B	Chloroform	ug/Kg	0.401 ND/U	0.341 ND/U	0.376 ND/U
SW8260B	Chloromethane	ug/Kg	1.73 ND/U	1.47 ND/U	1.62 ND/U
SW8260B	Cyclohexane	ug/Kg	1.98 ND/U	1.68 ND/U	1.86 ND/U
SW8260B	Dibromochloromethane	ug/Kg	1.42 ND/U	1.20 ND/U	1.33 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	2.14 ND/U	1.82 ND/U	2.00 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.799 ND/U	0.680 ND/U	0.749 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.63 ND/U	1.39 ND/U	1.53 ND/U
SW8260B	Methyl Acetate	ug/Kg	7.66/= /J	14.2/= /J	18.6/= /J
SW8260B	Methylcyclohexane	ug/Kg	1.03/TR/J	1.44/TR/J	0.866 ND/U

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SW8260B	Methylene Chloride	ug/Kg	1.18 ND/U	1.00 ND/U	1.11 ND/U
SW8260B	Styrene	ug/Kg	1.10 ND/U	0.933 ND/U	1.03 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.12 ND/U	0.952 ND/U	1.05 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.79 ND/U	1.52 ND/U	1.68 ND/U
SW8260B	Toluene	ug/Kg	1.69/TR/J	0.801 ND/U	0.883 ND/U
SW8260B	Trichloroethene (TCE)	ug/Kg	1.57 ND/U	1.34 ND/U	1.47 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.527 ND/U	0.448 ND/U	0.494 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.72 ND/U	1.46 ND/U	1.61 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.34 ND/U	1.14 ND/U	1.26 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.05 ND/U	0.896 ND/U	0.987 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.20 ND/U	1.02 ND/U	1.12 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.54 ND/U	1.31 ND/U	1.44 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.905 ND/U	0.770 ND/U	0.848 ND/U

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-29-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-29-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-01-A 10/27/2004 RESULT / QUAL
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	16.5/=	15.4/=	16.9/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0306 ND/U	0.0305 ND/U	0.0303 ND/U
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0297 ND/U	0.0295 ND/U	0.0294 ND/U
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0411 ND/U	0.0409 ND/U	0.0407 ND/U
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0681 ND/U	0.0677 ND/U	0.0674 ND/U
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0628 ND/U	0.0625 ND/U	0.0621 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0490 ND/U	0.0487 ND/U	0.0485 ND/U
SW8330	2-Nitrotoluene	mg/Kg	0.103 ND/U	0.103 ND/U	0.102 ND/U
SW8330	3-Nitrotoluene	mg/Kg	0.141 ND/U	0.140 ND/U	0.140 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0612 ND/U	0.0609 ND/U	0.0606 ND/U
SW8330	4-Nitrotoluene	mg/Kg	0.102 ND/U	0.102 ND/U	0.101 ND/U
SW8330	HMX	mg/Kg	0.0276 ND/U	0.0275 ND/U	0.0273 ND/U
SW8330	Nitrobenzene	mg/Kg	0.0526 ND/U	0.0524 ND/U	0.0521 ND/U
SW8330	RDX	mg/Kg	0.0354 ND/U	0.0352 ND/U	0.0350 ND/U
SW8330	Tetryl	mg/Kg	0.0974 ND/UJ	0.0970 ND/UJ	0.0965 ND/UJ
	Metals				
SW6010B	Aluminum (total)	mg/Kg	14000/=	8710/=	8390/=
SW6010B	Antimony (total)	mg/Kg	0.994/TR/J	0.644 ND/UJ	0.712 ND/UJ
SW6010B	Arsenic (total)	mg/Kg	8.92/= /L	5.02/= /J	4.95/=
SW6010B	Barium (total)	mg/Kg	70.4/=	49.2/=	69.4/=
SW6010B	Beryllium (total)	mg/Kg	0.902/=	0.334/TR/J	0.396/TR/J
SW6010B	Cadmium (total)	mg/Kg	0.322/TR/J	0.299/TR/J	0.463/TR/J
SW6010B	Calcium (total)	mg/Kg	6550/= /J	62600/= /J	28700/=
SW6010B	Chromium (total)	mg/Kg	19.6/=	13.0/=	13.8/=
SW6010B	Cobalt (total)	mg/Kg	10.6/=	6.00/=	8.11/=
SW6010B	Copper (total)	mg/Kg	23.4/=	22.0/=	16.1/=
SW6010B	Iron (total)	mg/Kg	26000/=	17900/=	18100/=
SW6010B	Lead (total)	mg/Kg	14.5/=	10.4/=	15.0/=
SW6010B	Magnesium (total)	mg/Kg	4640/= /J	16100/= /J	8740/=
SW6010B	Manganese (total)	mg/Kg	261/= /J	418/= /J	465/= /J
SW7471A	Mercury (total)	mg/Kg	0.0298/TR/J	0.0062 ND/U	0.0292/=
SW6010B	Nickel (total)	mg/Kg	27.0/=	19.8/=	19.8/=
SW6010B	Potassium (total)	mg/Kg	1020/= /J	1130/=	1120/= /J
SW6010B	Selenium (total)	mg/Kg	1.38 ND/U	1.16 ND/U	1.29 ND/U
SW6010B	Silver (total)	mg/Kg	0.112 ND/U	0.164/TR/J	0.222/TR/J
SW6010B	Sodium (total)	mg/Kg	56.4/TR/J	100/TR/J	71.6/TR/J
SW6010B	Thallium (total)	mg/Kg	4.64/=	0.985 ND/U	3.56/=
SW6010B	Vanadium (total)	mg/Kg	31.1/=	24.3/=	22.4/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-29-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-29-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-01-A 10/27/2004 RESULT / QUAL
SW6010B	Zinc (total)	mg/Kg	72.7/=	49.0/=	63.3/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	9.66 ND/U	9.50 ND/U	9.45 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	40.5 ND/U	39.8 ND/U	39.6 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	21.8 ND/U	21.5 ND/U	21.4 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	20.9 ND/U	20.5 ND/U	20.4 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	21.4 ND/U	21.0 ND/U	20.9 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	18.6 ND/U	18.2 ND/U	18.1 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	5.18 ND/U	5.09 ND/U	10.2/TR/J
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	51.9 ND/U	52.3 ND/U	52.3 ND/UJ
SW8270C	1,2-Dichlorobenzene	ug/Kg	51.5 ND/U	52.0 ND/U	52.0 ND/UJ
SW8270C	1,3-Dichlorobenzene	ug/Kg	35.2 ND/U	35.5 ND/U	35.5 ND/UJ
SW8270C	1,4-Dichlorobenzene	ug/Kg	38.3 ND/U	38.6 ND/U	38.6 ND/UJ
SW8270C	2,4,5-Trichlorophenol	ug/Kg	307 ND/U	309 ND/U	309 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/Kg	536 ND/U	541 ND/U	541 ND/U
SW8270C	2,4-Dichlorophenol	ug/Kg	129 ND/U	130 ND/U	130 ND/U
SW8270C	2,4-Dimethylphenol	ug/Kg	156 ND/UJ	157 ND/UJ	157 ND/U
SW8270C	2,4-Dinitrophenol	ug/Kg	416 ND/U	420 ND/U	420 ND/U
SW8270C	2,4-Dinitrotoluene	ug/Kg	121 ND/U	122 ND/U	122 ND/UJ
SW8270C	2,6-Dinitrotoluene	ug/Kg	164 ND/U	165 ND/U	165 ND/UJ
SW8270C	2-Chloronaphthalene	ug/Kg	38.3 ND/U	38.6 ND/U	38.6 ND/UJ
SW8270C	2-Chlorophenol	ug/Kg	119 ND/U	120 ND/U	120 ND/U
SW8270C	2-Methylnaphthalene	ug/Kg	30.1 ND/U	30.4 ND/U	30.3 ND/UJ
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	246 ND/U	248 ND/U	248 ND/U
SW8270C	2-Nitroaniline	ug/Kg	213 ND/U	215 ND/U	215 ND/UJ
SW8270C	2-Nitrophenol	ug/Kg	315 ND/U	317 ND/U	317 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	3-Nitroaniline	ug/Kg	232 ND/UJ	234 ND/UJ	ND/UR
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	211 ND/U	213 ND/U	213 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	159 ND/U	160 ND/U	160 ND/UJ
SW8270C	4-Chloro-3-methylphenol	ug/Kg	431 ND/U	435 ND/U	435 ND/U
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	296 ND/U	299 ND/U	299 ND/UJ
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	96.2 ND/U	97.0 ND/U	97.0 ND/U
SW8270C	4-Nitroaniline	ug/Kg	232 ND/UJ	234 ND/UJ	ND/UR
SW8270C	4-Nitrophenol	ug/Kg	156 ND/U	157 ND/U	157 ND/U
SW8270C	Acenaphthene	ug/Kg	13.3 ND/U	13.4 ND/U	13.4 ND/UJ
SW8270C	Acenaphthylene	ug/Kg	42.1 ND/U	42.4 ND/U	42.4 ND/UJ
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	ND/UR

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-29-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-29-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-01-A 10/27/2004 RESULT / QUAL
SW8270C	Anthracene	ug/Kg	30.7 ND/U	30.9 ND/U	30.9 ND/UJ
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Benzaldehyde	ug/Kg	ND/UR	ND/UR	292/TR/J
SW8270C	Benzo(a)anthracene	ug/Kg	22.1 ND/U	22.3 ND/U	22.3 ND/UJ
SW8270C	Benzo(a)pyrene	ug/Kg	30.0 ND/U	30.2 ND/U	30.2 ND/UJ
SW8270C	Benzo(b)fluoranthene	ug/Kg	28.6 ND/U	28.8 ND/U	28.8 ND/UJ
SW8270C	Benzo(g,h,i)perylene	ug/Kg	27.2 ND/U	27.4 ND/U	27.4 ND/UJ
SW8270C	Benzo(k)fluoranthene	ug/Kg	32.4 ND/U	32.7 ND/U	32.7 ND/UJ
SW8270C	Benzoic acid	ug/Kg	477 ND/U	481 ND/U	1220/= /J
SW8270C	Benzyl alcohol	ug/Kg	542 ND/U	547 ND/U	546 ND/UJ
SW8270C	Benzyl butyl phthalate	ug/Kg	149 ND/U	150 ND/U	150 ND/UJ
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	ND/UR
SW8270C	Carbazole	ug/Kg	50.0 ND/U	50.5 ND/U	50.5 ND/UJ
SW8270C	Chrysene	ug/Kg	17.5 ND/U	17.7 ND/U	17.7 ND/UJ
SW8270C	Di-n-butylphthalate	ug/Kg	466 ND/U	470 ND/U	470 ND/UJ
SW8270C	Di-n-octylphthalate	ug/Kg	93.4 ND/U	94.2 ND/U	94.2 ND/UJ
SW8270C	Dibenz(a,h)anthracene	ug/Kg	22.8 ND/U	23.0 ND/U	23.0 ND/UJ
SW8270C	Dibenzofuran	ug/Kg	280 ND/U	283 ND/U	283 ND/UJ
SW8270C	Diethylphthalate	ug/Kg	419 ND/U	422 ND/U	422 ND/UJ
SW8270C	Dimethylphthalate	ug/Kg	239 ND/U	241 ND/U	241 ND/UJ
SW8270C	Fluoranthene	ug/Kg	19.0 ND/U	19.2 ND/U	19.2 ND/UJ
SW8270C	Fluorene	ug/Kg	11.2 ND/U	11.3 ND/U	11.3 ND/UJ
SW8270C	Hexachlorobenzene	ug/Kg	95.0 ND/U	95.8 ND/U	95.8 ND/UJ
SW8270C	Hexachlorobutadiene	ug/Kg	31.0 ND/U	31.3 ND/U	31.3 ND/UJ
SW8270C	Hexachlorocyclopentadiene	ug/Kg	152 ND/UJ	153 ND/UJ	153 ND/UJ
SW8270C	Hexachloroethane	ug/Kg	59.4 ND/U	59.9 ND/U	59.9 ND/UJ
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	28.6 ND/U	28.8 ND/U	28.8 ND/UJ
SW8270C	Isophorone	ug/Kg	22.1 ND/U	22.3 ND/U	22.3 ND/UJ
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	99.6 ND/U	100 ND/U	100 ND/UJ
SW8270C	N-Nitrosodimethylamine	ug/Kg	57.7 ND/U	58.1 ND/U	58.1 ND/UJ
SW8270C	N-Nitrosodiphenylamine	ug/Kg	98.3 ND/U	99.1 ND/U	99.1 ND/UJ
SW8270C	Naphthalene	ug/Kg	10.9 ND/U	11.0 ND/U	11.0 ND/UJ
SW8270C	Nitrobenzene	ug/Kg	62.3 ND/U	62.8 ND/U	62.8 ND/UJ
SW8270C	Pentachlorophenol	ug/Kg	242 ND/U	244 ND/U	244 ND/U
SW8270C	Phenanthrene	ug/Kg	21.3 ND/U	21.5 ND/U	21.5 ND/UJ
SW8270C	Phenol	ug/Kg	127 ND/U	128 ND/U	128 ND/U
SW8270C	Pyrene	ug/Kg	16.5 ND/U	16.6 ND/U	16.6 ND/UJ
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	38.7 ND/U	39.1 ND/U	39.1 ND/UJ
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	108 ND/U	109 ND/U	109 ND/UJ

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-29-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-29-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-01-A 10/27/2004 RESULT / QUAL
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	122 ND/U	123 ND/U	123 ND/UJ
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	381 ND/U	384 ND/U	384 ND/UJ
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	1.37 ND/U	1.54 ND/U	1.37 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	0.590 ND/U	0.662 ND/U	0.589 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	1.48 ND/U	1.66 ND/U	1.48 ND/U
SW8260B	1,1,2-Trichloroethane	ug/Kg	0.732 ND/U	0.822 ND/U	0.731 ND/U
SW8260B	1,1-Dichloroethane	ug/Kg	0.802 ND/U	0.900 ND/U	0.801 ND/U
SW8260B	1,1-Dichloroethene	ug/Kg	1.66 ND/U	1.86 ND/U	1.66 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	0.882 ND/U	0.990 ND/U	0.881 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.12 ND/U	1.25 ND/U	1.11 ND/UJ
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	1.59 ND/U	1.79 ND/U	1.59 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	0.616 ND/U	0.691 ND/U	0.615 ND/U
SW8260B	1,2-Dichlorobenzene	ug/Kg	0.977 ND/U	1.10 ND/U	0.976 ND/U
SW8260B	1,2-Dichloroethane	ug/Kg	0.711 ND/U	0.798 ND/U	0.710 ND/U
SW8260B	1,2-Dichloropropane	ug/Kg	0.308 ND/U	0.346 ND/U	0.308 ND/U
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.08 ND/U	1.21 ND/U	1.08 ND/U
SW8260B	1,4-Dichlorobenzene	ug/Kg	0.984 ND/U	1.10 ND/U	0.982 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	1.13 ND/U	1.26 ND/U	1.12 ND/U
SW8260B	2-Hexanone	ug/Kg	0.889 ND/U	0.998 ND/U	0.888 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.975 ND/U	1.09 ND/U	0.974 ND/U
SW8260B	Acetone	ug/Kg	1.65 ND/U	1.85 ND/U	1.65 ND/U
SW8260B	Benzene	ug/Kg	0.865 ND/U	4.54/TR/J	5.86/=
SW8260B	Bromochloromethane	ug/Kg	0.982 ND/U	1.10 ND/U	0.980 ND/U
SW8260B	Bromodichloromethane	ug/Kg	0.905 ND/U	1.02 ND/U	0.904 ND/U
SW8260B	Bromoform	ug/Kg	0.998 ND/U	1.12 ND/U	0.996 ND/U
SW8260B	Bromomethane	ug/Kg	1.42 ND/U	1.60 ND/U	1.42 ND/U
SW8260B	Carbon Disulfide	ug/Kg	1.41 ND/U	1.59 ND/U	1.41 ND/U
SW8260B	Carbon tetrachloride	ug/Kg	1.25 ND/U	1.41 ND/U	1.25 ND/U
SW8260B	Chlorobenzene	ug/Kg	0.988 ND/U	1.11 ND/U	0.986 ND/U
SW8260B	Chloroethane	ug/Kg	1.56 ND/U	1.75 ND/U	1.56 ND/U
SW8260B	Chloroform	ug/Kg	0.330 ND/U	0.370 ND/U	0.329 ND/U
SW8260B	Chloromethane	ug/Kg	1.42 ND/U	1.60 ND/U	1.42 ND/U
SW8260B	Cyclohexane	ug/Kg	1.63 ND/U	6.95/=	10.2/=
SW8260B	Dibromochloromethane	ug/Kg	1.17 ND/U	1.31 ND/U	1.16 ND/U
SW8260B	Dichlorodifluoromethane	ug/Kg	1.76 ND/U	1.97 ND/U	1.76 ND/U
SW8260B	Ethylbenzene	ug/Kg	0.658 ND/U	2.81/TR/J	2.96/TR/J
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	1.34 ND/U	1.51 ND/U	1.34 ND/U
SW8260B	Methyl Acetate	ug/Kg	30.0/= /J	3.87 ND/UJ	3.44 ND/UJ
SW8260B	Methylcyclohexane	ug/Kg	0.761 ND/U	8.14/=	11.0/=

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SO-AA3-SB-29-A(0.5-1.5) 11/8/2004 RESULT / QUAL	PBOW-04-SO-AA3-SB-29-A(3-5) 11/8/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-01-A 10/27/2004 RESULT / QUAL
SW8260B	Methylene Chloride	ug/Kg	0.972 ND/U	1.09 ND/U	0.971 ND/U
SW8260B	Styrene	ug/Kg	0.903 ND/U	1.01 ND/U	0.902 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.922 ND/U	1.03 ND/U	0.920 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/Kg	1.47 ND/U	1.65 ND/U	1.47 ND/U
SW8260B	Toluene	ug/Kg	0.776 ND/U	11.7/=	12.8/=
SW8260B	Trichloroethene (TCE)	ug/Kg	1.29 ND/U	1.45 ND/U	1.29 ND/U
SW8260B	Trichlorofluoromethane	ug/Kg	0.434 ND/U	0.487 ND/U	0.433 ND/U
SW8260B	Vinyl chloride	ug/Kg	1.41 ND/U	1.59 ND/U	1.41 ND/U
SW8260B	Xylenes, Total	ug/Kg	1.11 ND/U	8.51/=	8.20/=
SW8260B	cis-1,2-Dichloroethene	ug/Kg	0.868 ND/U	0.974 ND/U	0.866 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	0.988 ND/U	1.11 ND/U	0.986 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	1.26 ND/U	1.42 ND/U	1.26 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	0.745 ND/U	0.836 ND/U	0.744 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA3-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-03-A 10/27/2004 RESULT / QUAL	
	Wet Chemistry				
D2216	Moisture, Percent	PERCENT	53.2/=	30.7/=	
	Explosives				
SW8330	1,3,5-Trinitrobenzene	mg/Kg	0.0309 ND/U	0.0305 ND/U	
SW8330	1,3-Dinitrobenzene	mg/Kg	0.0300 ND/U	0.0295 ND/U	
SW8330	2,4,6-Trinitrotoluene	mg/Kg	0.0415 ND/U	0.0409 ND/U	
SW8330	2,4-Dinitrotoluene	mg/Kg	0.0688 ND/U	0.0677 ND/U	
SW8330	2,6-Dinitrotoluene	mg/Kg	0.0634 ND/U	0.0625 ND/U	
SW8330	2-Amino-4,6-Dinitrotoluene	mg/Kg	0.0495 ND/U	0.0487 ND/U	
SW8330	2-Nitrotoluene	mg/Kg	0.104 ND/U	0.103 ND/U	
SW8330	3-Nitrotoluene	mg/Kg	0.142 ND/U	0.140 ND/U	
SW8330	4-Amino-2,6-Dinitrotoluene	mg/Kg	0.0618 ND/U	0.0609 ND/U	
SW8330	4-Nitrotoluene	mg/Kg	0.103 ND/U	0.102 ND/U	
SW8330	HMX	mg/Kg	0.0279 ND/U	0.0275 ND/U	
SW8330	Nitrobenzene	mg/Kg	0.0531 ND/U	0.0524 ND/U	
SW8330	RDX	mg/Kg	0.0357 ND/U	0.0352 ND/U	
SW8330	Tetryl	mg/Kg	0.0984 ND/UJ	0.0970 ND/UJ	
	Metals				
SW6010B	Aluminum (total)	mg/Kg	6850/=	7410/=	
SW6010B	Antimony (total)	mg/Kg	1.41 ND/UJ	0.717 ND/UJ	
SW6010B	Arsenic (total)	mg/Kg	1.16 ND/U	2.53/TR/J	
SW6010B	Barium (total)	mg/Kg	62.9/=	72.5/=	
SW6010B	Beryllium (total)	mg/Kg	0.320/TR/J	0.355/TR/J	
SW6010B	Cadmium (total)	mg/Kg	0.699/TR/J	0.509/TR/J	
SW6010B	Calcium (total)	mg/Kg	64000/=	59300/=	
SW6010B	Chromium (total)	mg/Kg	13.2/=	12.8/=	
SW6010B	Cobalt (total)	mg/Kg	5.64/=	6.82/=	
SW6010B	Copper (total)	mg/Kg	17.5/=	17.8/=	
SW6010B	Iron (total)	mg/Kg	14800/=	16500/=	
SW6010B	Lead (total)	mg/Kg	84.1/=	61.8/=	
SW6010B	Magnesium (total)	mg/Kg	5800/=	9140/=	
SW6010B	Manganese (total)	mg/Kg	452/= /J	448/= /J	
SW7471A	Mercury (total)	mg/Kg	0.0415/TR/J	0.0299/TR/J	
SW6010B	Nickel (total)	mg/Kg	16.2/=	18.1/=	
SW6010B	Potassium (total)	mg/Kg	864/= /J	1060/=	
SW6010B	Selenium (total)	mg/Kg	5.10 ND/U	6.48 ND/U	
SW6010B	Silver (total)	mg/Kg	0.342/TR/J	0.355/TR/J	
SW6010B	Sodium (total)	mg/Kg	105/TR/J	94.8/TR/J	
SW6010B	Thallium (total)	mg/Kg	5.33/=	1.10 ND/U	
SW6010B	Vanadium (total)	mg/Kg	15.7/=	20.8/=	

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA3-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-03-A 10/27/2004 RESULT / QUAL	
SW6010B	Zinc (total)	mg/Kg	79.1/=	66.4/=	
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	85.2 ND/U	11.7 ND/U	
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	3200 ND/U	48.9 ND/U	
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	375 ND/U	26.3 ND/U	
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	184 ND/U	25.2 ND/U	
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	639 ND/U	25.8 ND/U	
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	473/TR/J	22.4 ND/U	
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	1130/TR/J	122/TR/J	
	Semivolatile Organic Compounds				
SW8270C	1,2,4-Trichlorobenzene	ug/Kg	94.8 ND/U	60.5 ND/U	
SW8270C	1,2-Dichlorobenzene	ug/Kg	94.1 ND/U	60.1 ND/U	
SW8270C	1,3-Dichlorobenzene	ug/Kg	64.2 ND/U	41.0 ND/U	
SW8270C	1,4-Dichlorobenzene	ug/Kg	69.9 ND/U	44.6 ND/U	
SW8270C	2,4,5-Trichlorophenol	ug/Kg	560 ND/U	358 ND/U	
SW8270C	2,4,6-Trichlorophenol	ug/Kg	979 ND/U	625 ND/U	
SW8270C	2,4-Dichlorophenol	ug/Kg	236 ND/U	151 ND/U	
SW8270C	2,4-Dimethylphenol	ug/Kg	284 ND/U	181 ND/U	
SW8270C	2,4-Dinitrophenol	ug/Kg	760 ND/U	485 ND/U	
SW8270C	2,4-Dinitrotoluene	ug/Kg	221 ND/U	141 ND/U	
SW8270C	2,6-Dinitrotoluene	ug/Kg	299 ND/U	191 ND/U	
SW8270C	2-Chloronaphthalene	ug/Kg	69.9 ND/U	44.6 ND/U	
SW8270C	2-Chlorophenol	ug/Kg	217 ND/U	138 ND/U	
SW8270C	2-Methylnaphthalene	ug/Kg	55.0 ND/U	35.1 ND/U	
SW8270C	2-Methylphenol (o-Cresol)	ug/Kg	449 ND/U	286 ND/U	
SW8270C	2-Nitroaniline	ug/Kg	390 ND/U	249 ND/U	
SW8270C	2-Nitrophenol	ug/Kg	575 ND/U	367 ND/U	
SW8270C	3,3'-Dichlorobenzidine	ug/Kg	ND/UR	ND/UR	
SW8270C	3-Nitroaniline	ug/Kg	ND/UR	ND/UR	
SW8270C	4,6-Dinitro-2-methylphenol	ug/Kg	385 ND/U	246 ND/U	
SW8270C	4-Bromophenyl phenyl ether	ug/Kg	291 ND/U	185 ND/U	
SW8270C	4-Chloro-3-methylphenol	ug/Kg	788 ND/U	503 ND/U	
SW8270C	4-Chloroaniline	ug/Kg	ND/UR	ND/UR	
SW8270C	4-Chlorophenyl phenyl ether	ug/Kg	541 ND/U	345 ND/U	
SW8270C	4-Methylphenol (p-Cresol)	ug/Kg	176 ND/U	112 ND/U	
SW8270C	4-Nitroaniline	ug/Kg	ND/UR	ND/UR	
SW8270C	4-Nitrophenol	ug/Kg	284 ND/U	181 ND/U	
SW8270C	Acenaphthene	ug/Kg	24.2 ND/U	15.5 ND/U	
SW8270C	Acenaphthylene	ug/Kg	387/TR/J	91.8/TR/J	
SW8270C	Acetophenone	ug/Kg	ND/UR	ND/UR	

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA3-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-03-A 10/27/2004 RESULT / QUAL	
SW8270C	Anthracene	ug/Kg	197/TR/J	35.8 ND/U	
SW8270C	Atrazine	ug/Kg	ND/UR	ND/UR	
SW8270C	Benzaldehyde	ug/Kg	325/TR/J	97.0/TR/J	
SW8270C	Benzo(a)anthracene	ug/Kg	298/TR/J	85.4/TR/J	
SW8270C	Benzo(a)pyrene	ug/Kg	510/TR/J	130/TR/J	
SW8270C	Benzo(b)fluoranthene	ug/Kg	619/TR/J	171/TR/J	
SW8270C	Benzo(g,h,i)perylene	ug/Kg	192/TR/J	31.7 ND/U	
SW8270C	Benzo(k)fluoranthene	ug/Kg	626/TR/J	168/TR/J	
SW8270C	Benzoic acid	ug/Kg	872 ND/U	556 ND/U	
SW8270C	Benzyl alcohol	ug/Kg	990 ND/U	632 ND/U	
SW8270C	Benzyl butyl phthalate	ug/Kg	272 ND/U	173 ND/U	
SW8270C	Biphenyl (Diphenyl)	ug/Kg	ND/UR	ND/UR	
SW8270C	Caprolactam	ug/Kg	ND/UR	ND/UR	
SW8270C	Carbazole	ug/Kg	91.4 ND/U	58.3 ND/U	
SW8270C	Chrysene	ug/Kg	520/TR/J	156/TR/J	
SW8270C	Di-n-butylphthalate	ug/Kg	851 ND/U	543 ND/U	
SW8270C	Di-n-octylphthalate	ug/Kg	171 ND/U	109 ND/U	
SW8270C	Dibenz(a,h)anthracene	ug/Kg	41.7 ND/U	26.6 ND/U	
SW8270C	Dibenzofuran	ug/Kg	512 ND/U	327 ND/U	
SW8270C	Diethylphthalate	ug/Kg	765 ND/U	488 ND/U	
SW8270C	Dimethylphthalate	ug/Kg	436 ND/U	278 ND/U	
SW8270C	Fluoranthene	ug/Kg	1180/= /J	356/TR/J	
SW8270C	Fluorene	ug/Kg	20.4 ND/U	13.0 ND/U	
SW8270C	Hexachlorobenzene	ug/Kg	174 ND/U	111 ND/U	
SW8270C	Hexachlorobutadiene	ug/Kg	56.7 ND/U	36.2 ND/U	
SW8270C	Hexachlorocyclopentadiene	ug/Kg	278 ND/UJ	177 ND/UJ	
SW8270C	Hexachloroethane	ug/Kg	108 ND/U	69.2 ND/U	
SW8270C	Indeno(1,2,3-cd)pyrene	ug/Kg	140/TR/J	33.3 ND/U	
SW8270C	Isophorone	ug/Kg	40.4 ND/U	25.8 ND/U	
SW8270C	N-Nitroso-di-n-propylamine	ug/Kg	182 ND/U	116 ND/U	
SW8270C	N-Nitrosodimethylamine	ug/Kg	105 ND/U	67.2 ND/U	
SW8270C	N-Nitrosodiphenylamine	ug/Kg	179 ND/U	115 ND/U	
SW8270C	Naphthalene	ug/Kg	19.9 ND/U	12.7 ND/U	
SW8270C	Nitrobenzene	ug/Kg	114 ND/U	72.6 ND/U	
SW8270C	Pentachlorophenol	ug/Kg	442 ND/U	282 ND/U	
SW8270C	Phenanthrene	ug/Kg	222/TR/J	24.9 ND/U	
SW8270C	Phenol	ug/Kg	232 ND/U	148 ND/U	
SW8270C	Pyrene	ug/Kg	504/TR/J	168/TR/J	
SW8270C	bis(2-Chloroethoxy)methane	ug/Kg	70.8 ND/U	45.2 ND/U	
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	198 ND/U	126 ND/U	

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA3-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-03-A 10/27/2004 RESULT / QUAL	
SW8270C	bis(2-Chloroisopropyl)ether	ug/Kg	223 ND/U	142 ND/U	
SW8270C	bis(2-Ethylhexyl)phthalate	ug/Kg	695 ND/U	444 ND/U	
	Volatile Organic Compounds				
SW8260B	1,1,1-Trichloroethane	ug/Kg	2.39 ND/U	1.48 ND/U	
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	1.03 ND/U	0.634 ND/U	
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	2.58 ND/U	1.59 ND/U	
SW8260B	1,1,2-Trichloroethane	ug/Kg	1.27 ND/U	0.787 ND/U	
SW8260B	1,1-Dichloroethane	ug/Kg	1.39 ND/U	0.863 ND/U	
SW8260B	1,1-Dichloroethene	ug/Kg	2.89 ND/U	1.79 ND/U	
SW8260B	1,2,3-Trichlorobenzene	ug/Kg	1.53 ND/U	0.949 ND/U	
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	1.94 ND/UJ	1.20 ND/UJ	
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	2.77 ND/U	1.71 ND/U	
SW8260B	1,2-Dibromoethane (EDB)	ug/Kg	1.07 ND/U	0.662 ND/U	
SW8260B	1,2-Dichlorobenzene	ug/Kg	1.70 ND/U	1.05 ND/U	
SW8260B	1,2-Dichloroethane	ug/Kg	1.24 ND/U	0.765 ND/U	
SW8260B	1,2-Dichloropropane	ug/Kg	0.536 ND/U	0.332 ND/U	
SW8260B	1,3-Dichlorobenzene	ug/Kg	1.87 ND/U	1.16 ND/U	
SW8260B	1,4-Dichlorobenzene	ug/Kg	1.71 ND/U	1.06 ND/U	
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/Kg	62.5/=	36.1/=	
SW8260B	2-Hexanone	ug/Kg	1.55 ND/U	0.956 ND/U	
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	1.70 ND/U	1.05 ND/U	
SW8260B	Acetone	ug/Kg	295/= /B	155/= /B	
SW8260B	Benzene	ug/Kg	1.71/TR/J	2.37/TR/J	
SW8260B	Bromochloromethane	ug/Kg	1.71 ND/U	1.06 ND/U	
SW8260B	Bromodichloromethane	ug/Kg	1.57 ND/U	0.973 ND/U	
SW8260B	Bromoform	ug/Kg	1.73 ND/U	1.07 ND/U	
SW8260B	Bromomethane	ug/Kg	2.47 ND/U	1.53 ND/U	
SW8260B	Carbon Disulfide	ug/Kg	8.85/=	20.3/=	
SW8260B	Carbon tetrachloride	ug/Kg	2.18 ND/U	1.35 ND/U	
SW8260B	Chlorobenzene	ug/Kg	1.72 ND/U	1.06 ND/U	
SW8260B	Chloroethane	ug/Kg	2.71 ND/U	1.68 ND/U	
SW8260B	Chloroform	ug/Kg	0.574 ND/U	0.355 ND/U	
SW8260B	Chloromethane	ug/Kg	2.47 ND/U	1.53 ND/U	
SW8260B	Cyclohexane	ug/Kg	2.84/TR/J	5.26/TR/J	
SW8260B	Dibromochloromethane	ug/Kg	2.03 ND/U	1.25 ND/U	
SW8260B	Dichlorodifluoromethane	ug/Kg	3.06 ND/U	1.89 ND/U	
SW8260B	Ethylbenzene	ug/Kg	1.14 ND/U	1.14/TR/J	
SW8260B	Isopropylbenzene (Cumene)	ug/Kg	2.34 ND/U	1.45 ND/U	
SW8260B	Methyl Acetate	ug/Kg	5.99 ND/UJ	3.71 ND/UJ	
SW8260B	Methylcyclohexane	ug/Kg	4.34/TR/J	6.55/=	

Plum Brook Acid Areas 2 and 3
Soil and Sediment Data for the 2004 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-SD-AA3-SWSD-02-A 10/27/2004 RESULT / QUAL	PBOW-04-SD-AA3-SWSD-03-A 10/27/2004 RESULT / QUAL	
SW8260B	Methylene Chloride	ug/Kg	1.69 ND/U	1.05 ND/U	
SW8260B	Styrene	ug/Kg	1.57 ND/U	0.971 ND/U	
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	1.60 ND/U	0.991 ND/U	
SW8260B	Tetrachloroethene (PCE)	ug/Kg	2.56 ND/U	1.58 ND/U	
SW8260B	Toluene	ug/Kg	4.04/TR/J	4.54/TR/J	
SW8260B	Trichloroethene (TCE)	ug/Kg	2.25 ND/U	1.39 ND/U	
SW8260B	Trichlorofluoromethane	ug/Kg	0.754 ND/U	0.466 ND/U	
SW8260B	Vinyl chloride	ug/Kg	2.46 ND/U	1.52 ND/U	
SW8260B	Xylenes, Total	ug/Kg	2.18/TR/J	3.39/TR/J	
SW8260B	cis-1,2-Dichloroethene	ug/Kg	1.51 ND/U	0.933 ND/U	
SW8260B	cis-1,3-Dichloropropene	ug/Kg	1.72 ND/U	1.06 ND/U	
SW8260B	trans-1,2-Dichloroethene	ug/Kg	2.20 ND/U	1.36 ND/U	
SW8260B	trans-1,3-Dichloropropene	ug/Kg	1.30 ND/U	0.801 ND/U	

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Acid Area 2 and 3 Soil and Sediment Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-TB-102704-02 10/27/2004 RESULT / QUAL	PBOW-04-TB-102804-02 10/28/2004 RESULT / QUAL	PBOW-04-TB-102904-01 10/29/2004 RESULT / QUAL	PBOW-04-TB-110104-01 11/1/2004 RESULT / QUAL
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.146 ND/U	0.146 ND/U	0.146 ND/U	0.146 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.291 ND/U	0.291 ND/U	0.291 ND/U	0.291 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	1.93 ND/U	1.93 ND/U	1.93 ND/U	1.93 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.468 ND/U	0.468 ND/U	0.468 ND/U	0.468 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.638 ND/U	0.638 ND/U	0.638 ND/U	0.638 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.338 ND/U	0.338 ND/U	0.338 ND/U	0.338 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.340 ND/U	0.340 ND/U	0.340 ND/U	0.340 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.794 ND/U	0.794 ND/U	0.794 ND/U	0.794 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.436 ND/U	0.436 ND/U	0.436 ND/U	0.436 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.165 ND/U	0.165 ND/U	0.165 ND/U	0.165 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.161 ND/U	0.161 ND/U	0.161 ND/U	0.161 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.430 ND/U	0.430 ND/U	0.430 ND/U	0.430 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.348 ND/U	0.348 ND/U	0.348 ND/U	0.348 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	2.30 ND/U	2.30 ND/U	2.30 ND/U	2.30 ND/U
SW8260B	2-Hexanone	ug/L	1.05 ND/U	1.05 ND/U	1.05 ND/U	1.05 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	0.397 ND/U	0.397 ND/U	0.397 ND/U	0.397 ND/U
SW8260B	Acetone	ug/L	11.0/= /J	11.3/= /J	11.7/= /J	10.4/= /J
SW8260B	Benzene	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	Bromochloromethane	ug/L	0.260 ND/U	0.260 ND/U	0.260 ND/U	0.260 ND/U
SW8260B	Bromodichloromethane	ug/L	0.434 ND/U	0.434 ND/U	0.434 ND/U	0.434 ND/U
SW8260B	Bromoform	ug/L	0.534 ND/U	0.534 ND/U	0.534 ND/U	0.534 ND/U
SW8260B	Bromomethane	ug/L	0.548 ND/U	0.548 ND/U	0.548 ND/U	0.548 ND/U
SW8260B	Carbon Disulfide	ug/L	0.482 ND/U	0.482 ND/U	0.482 ND/U	0.482 ND/U
SW8260B	Carbon tetrachloride	ug/L	0.559 ND/U	0.559 ND/U	0.559 ND/U	0.559 ND/U
SW8260B	Chlorobenzene	ug/L	0.491 ND/U	0.491 ND/U	0.491 ND/U	0.491 ND/U
SW8260B	Chloroethane	ug/L	0.859 ND/U	0.859 ND/U	0.859 ND/U	0.859 ND/U
SW8260B	Chloroform	ug/L	0.455 ND/U	0.455 ND/U	0.455 ND/U	0.455 ND/U
SW8260B	Chloromethane	ug/L	0.443 ND/U	0.443 ND/U	0.443 ND/U	0.443 ND/U
SW8260B	Cyclohexane	ug/L	0.621 ND/U	0.621 ND/U	0.621 ND/U	0.621 ND/U
SW8260B	Dibromochloromethane	ug/L	0.412 ND/U	0.412 ND/U	0.412 ND/U	0.412 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	1.94 ND/U	1.94 ND/U	1.94 ND/U	1.94 ND/U
SW8260B	Ethylbenzene	ug/L	0.170 ND/U	0.170 ND/U	0.170 ND/U	0.170 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.372 ND/U	0.372 ND/U	0.372 ND/U	0.372 ND/U
SW8260B	Methyl Acetate	ug/L	0.732 ND/U	0.732 ND/U	0.732 ND/U	0.732 ND/U
SW8260B	Methylcyclohexane	ug/L	0.220 ND/U	0.220 ND/U	0.220 ND/U	0.220 ND/U
SW8260B	Methylene Chloride	ug/L	0.363 ND/U	0.363 ND/U	0.363 ND/U	0.363 ND/U
SW8260B	Styrene	ug/L	0.355 ND/U	0.355 ND/U	0.355 ND/U	0.355 ND/U

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Acid Area 2 and 3 Soil and Sediment Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-TB-102704-02 10/27/2004 RESULT / QUAL	PBOW-04-TB-102804-02 10/28/2004 RESULT / QUAL	PBOW-04-TB-102904-01 10/29/2004 RESULT / QUAL	PBOW-04-TB-110104-01 11/1/2004 RESULT / QUAL
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.518 ND/U	0.518 ND/U	0.518 ND/U	0.518 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.204 ND/U	0.204 ND/U	0.204 ND/U	0.204 ND/U
SW8260B	Toluene	ug/L	0.150 ND/U	0.461/TR/J	0.420/TR/J	0.212/TR/J
SW8260B	Trichloroethene (TCE)	ug/L	0.527 ND/U	0.527 ND/U	0.527 ND/U	0.527 ND/U
SW8260B	Trichlorofluoromethane	ug/L	0.449 ND/U	0.449 ND/UJ	0.449 ND/UJ	0.449 ND/UJ
SW8260B	Vinyl chloride	ug/L	0.444 ND/U	0.444 ND/U	0.444 ND/U	0.444 ND/U
SW8260B	Xylenes, Total	ug/L	1.17 ND/U	1.17 ND/U	1.17 ND/U	1.17 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L	0.302 ND/U	0.302 ND/U	0.302 ND/U	0.302 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.382 ND/U	0.382 ND/U	0.382 ND/U	0.382 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.225 ND/U	0.225 ND/U	0.225 ND/U	0.225 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.450 ND/U	0.450 ND/U	0.450 ND/U	0.450 ND/U

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Acid Area 2 and 3 Soil and Sediment Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-TB-110404-01 11/4/2004 RESULT / QUAL	PBOW-04-TB-110504-01 11/5/2004 RESULT / QUAL	PBOW-04-TB-110804-01 11/8/2004 RESULT / QUAL	PBOW-04-TB-110904-02 11/9/2004 RESULT / QUAL
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.146 ND/U	0.146 ND/U	0.146 ND/U	0.146 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.291 ND/U	0.291 ND/U	0.291 ND/U	0.291 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	1.93 ND/U	1.93 ND/U	1.93 ND/U	1.93 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.468 ND/U	0.468 ND/U	0.468 ND/U	0.468 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.638 ND/U	0.638 ND/U	0.638 ND/U	0.638 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.338 ND/U	0.338 ND/U	0.338 ND/U	0.338 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.340 ND/U	0.340 ND/U	0.340 ND/U	0.340 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.794 ND/U	0.794 ND/U	0.794 ND/U	0.794 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.436 ND/U	0.436 ND/U	0.436 ND/U	0.436 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.165 ND/U	0.165 ND/U	0.165 ND/U	0.165 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.161 ND/U	0.161 ND/U	0.161 ND/U	0.161 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.430 ND/U	0.430 ND/U	0.430 ND/U	0.430 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.348 ND/U	0.348 ND/U	0.348 ND/U	0.348 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	2.30 ND/U	2.30 ND/U	2.30 ND/U	2.30 ND/U
SW8260B	2-Hexanone	ug/L	1.05 ND/U	1.05 ND/U	1.05 ND/U	1.05 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	0.397 ND/U	0.397 ND/U	0.397 ND/U	0.397 ND/U
SW8260B	Acetone	ug/L	14.6/= /J	13.6/= /J	14.7/= /J	12.9/=
SW8260B	Benzene	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	Bromochloromethane	ug/L	0.260 ND/U	0.260 ND/U	0.260 ND/U	0.260 ND/U
SW8260B	Bromodichloromethane	ug/L	0.434 ND/U	0.434 ND/U	0.434 ND/U	0.434 ND/U
SW8260B	Bromoform	ug/L	0.534 ND/U	0.534 ND/U	0.534 ND/U	0.534 ND/U
SW8260B	Bromomethane	ug/L	0.548 ND/U	0.548 ND/U	0.548 ND/U	0.548 ND/U
SW8260B	Carbon Disulfide	ug/L	0.482 ND/U	0.482 ND/U	0.482 ND/U	0.482 ND/U
SW8260B	Carbon tetrachloride	ug/L	0.559 ND/U	0.559 ND/U	0.559 ND/U	0.559 ND/U
SW8260B	Chlorobenzene	ug/L	0.491 ND/U	0.491 ND/U	0.491 ND/U	0.491 ND/U
SW8260B	Chloroethane	ug/L	0.859 ND/U	0.859 ND/U	0.859 ND/U	0.859 ND/U
SW8260B	Chloroform	ug/L	0.455 ND/U	0.455 ND/U	0.455 ND/U	0.455 ND/U
SW8260B	Chloromethane	ug/L	0.443 ND/U	0.443 ND/U	0.443 ND/U	0.443 ND/U
SW8260B	Cyclohexane	ug/L	0.621 ND/U	0.621 ND/U	0.621 ND/U	0.621 ND/U
SW8260B	Dibromochloromethane	ug/L	0.412 ND/U	0.412 ND/U	0.412 ND/U	0.412 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	1.94 ND/U	1.94 ND/U	1.94 ND/U	1.94 ND/U
SW8260B	Ethylbenzene	ug/L	0.170 ND/U	0.170 ND/U	0.170 ND/U	0.170 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.372 ND/U	0.372 ND/U	0.372 ND/U	0.372 ND/U
SW8260B	Methyl Acetate	ug/L	0.732 ND/U	0.732 ND/U	0.732 ND/U	0.732 ND/U
SW8260B	Methylcyclohexane	ug/L	0.220 ND/U	0.220 ND/U	0.220 ND/U	0.220 ND/U
SW8260B	Methylene Chloride	ug/L	0.363 ND/U	0.363 ND/U	0.363 ND/U	0.363 ND/U
SW8260B	Styrene	ug/L	0.355 ND/U	0.355 ND/U	0.355 ND/U	0.355 ND/U

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Acid Area 2 and 3 Soil and Sediment Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-04-TB-110404-01 11/4/2004 RESULT / QUAL	PBOW-04-TB-110504-01 11/5/2004 RESULT / QUAL	PBOW-04-TB-110804-01 11/8/2004 RESULT / QUAL	PBOW-04-TB-110904-02 11/9/2004 RESULT / QUAL
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.518 ND/U	0.518 ND/U	0.518 ND/U	0.518 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.204 ND/U	0.204 ND/U	0.204 ND/U	0.204 ND/U
SW8260B	Toluene	ug/L	0.178/TR/J	0.150 ND/U	0.150 ND/U	0.150 ND/U
SW8260B	Trichloroethene (TCE)	ug/L	0.527 ND/U	0.527 ND/U	0.527 ND/U	0.527 ND/U
SW8260B	Trichlorofluoromethane	ug/L	0.449 ND/UJ	0.449 ND/U	0.449 ND/U	0.449 ND/UJ
SW8260B	Vinyl chloride	ug/L	0.444 ND/U	0.444 ND/U	0.444 ND/U	0.444 ND/U
SW8260B	Xylenes, Total	ug/L	1.17 ND/U	1.17 ND/U	1.17 ND/U	1.17 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L	0.302 ND/U	0.302 ND/U	0.302 ND/U	0.302 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.382 ND/U	0.382 ND/U	0.382 ND/U	0.382 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.225 ND/U	0.225 ND/U	0.225 ND/U	0.225 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.450 ND/U	0.450 ND/U	0.450 ND/U	0.450 ND/U

CHEMICAL DATA QUALITY REPORT

ROUND 1 GROUNDWATER DATA FOR THE REMEDIAL INVESTIGATION, PART 1, AT ACID AREAS 2 AND 3

FORMER PLUM BROOK ORDNANCE WORKS SANDUSKY, OHIO

Prepared for:

DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
NASHVILLE, TENNESSEE
CONTRACT DACW62-03-D-0004-0004

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April 2005

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ATTACHMENT 1 SAMPLE INFORMATION TABLES

ATTACHMENT 2 TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Abbreviations and Acronyms

C	Celsius
CDQR	Chemical Data Quality Report
CLP	USEPA Contract Laboratory Program
COC	Chain of Custody
CQAR	Chemical Quality Assurance Report
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
DQA	Data Quality Assessment
DQO	Data Quality Objectives
GC	Gas Chromatograph or Gas Chromatography
HTRW-CX	Hazardous, Toxic, and Radioactive Waste - Center of Expertise
IS	Internal Standard
Jacobs	Jacobs Engineering Group Inc
LCS	Laboratory Control Sample
LDP	Laboratory Data Package
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PCB	Polychlorinated Biphenyl Compounds
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
QAPP	Quality Assurance Project Plan
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SD	Serial Dilution QC sample
SDG	Sample Delivery Group
SUR	Surrogate Spike
SVOC	Semi-volatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
TOC	Total Organic Carbon
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

This Chemical Data Quality Report (CDQR) presents an evaluation of the quality and usability of the analytical data generated in support of the round 1 groundwater for the remedial investigation at Acid Areas 2 and 3 at the former Plum Brook Ordnance Works (PBOW). Jacobs Engineering (Jacobs) performed this remedial investigation for the United States Army Corps of Engineers (USACE) Nashville District under contract number DACW62-03-D-0004, task order 0004.

Both primary and quality assurance (QA) environmental samples were collected by Jacobs and were submitted to approved laboratories for chemical analyses. Jacobs provided data quality evaluation services for the primary data, and Stratum Engineering, Inc. was subcontracted to evaluate the QA data and prepare the subsequent Chemical Quality Assurance report (CQAR). This CDQR covers Jacobs' evaluation of the primary data.

This evaluation meets and completes the requirement of Step 2 "data verification" of the project data quality assessment (DQA) process. Completion of this step completes Jacob's portion of the requirement in the DQA process. A description of the DQA process is included in Section 8.2.2 of the approved Quality Assurance Project Plan (QAPP). As specified in the QAPP, the findings of this evaluation were discussed in terms of data precision, accuracy, representativeness, sensitivity and completeness.

1.1 REPORT ORGANIZATION

The CDQR has been organized into four sections and two attachments:

- Section 1 - Report organization and data quality program including: analytical laboratory used, analytical samples included in the evaluation, analytical protocols/methods employed, data evaluation procedures followed, and summary of data reporting formats.
- Section 2 - Definitions of qualifiers that may be assigned to data based on this evaluation.
- Section 3 - Statement of the project overall data quality and summary of qualifiers applied to the data as a result of this evaluation.
- Section 4 - Data quality narratives.
- Attachment 1 - Sample information tables including field and laboratory ID cross-reference.
- Attachment 2 - Test result tables with review qualifiers applied.

1.2 DATA QUALITY ASSURANCE PROGRAM

In order to verify compliance with project objectives, it was required that certain measurements of chemical constituents in environmental samples be made that met definitive data quality standards. This CDQR is applicable to those data.

Definitive data standards are specified by the USEPA in *"Data Quality Objectives Process for Superfund,"* EPA540-R-93-071, USEPA Office of Emergency and Remedial Response, September 1993. Definitive data are defined as follows:

> "Definitive data are generated using rigorous analytical methods, such as approved EPA reference methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data (e.g., chromatograms, spectra, digital values) in the form of paper printouts or computer-generated electronic files. Data may

be generated at the site or at an off-site location, as long as the QA/QC requirements are satisfied. For the data to be definitive, either analytical or total measurement error must be determined."

Specific project data quality objectives (DQOs) and procedures to achieve the DQOs are documented in the approved project Sampling and Analysis Plan Addendum (SAP). Key elements of the quality program relating to this evaluation include:

- Use of approved, USACE-validated laboratories.
- Use of a sampling program designed to meet the project objectives.
- Use of appropriate analytical methods and measurement parameters.
- Evaluation of reported QA/QC to verify compliance with DQOs.
- Use of appropriate analytical data reporting formats.

These elements are discussed in the following paragraphs.

1.2.1 Project Analytical Laboratories

The analytical laboratories employed on this project were evaluated by the USACE Hazardous, Toxic and Radioactive Waste Center of Expertise (HTRW-CX) and hold a current letters of validation from HTRW-CX to perform sample analyses in support of the USACE HTRW Program. This validation confirms their ability to produce reliable and defensible data. The primary analytical laboratory used was:

Ecology and Environment, inc. (E&E)
Analytical Services Center
Contact: Alan Laffin
4493 Walden Avenue
Lancaster, NY 14086
Phone: 716-685-8080
Fax: 716-685-0852

1.2.2 Sampling Program Design/Project Samples

The sampling program was designed to collect samples representative of site conditions at the time of sampling and to generate data of sufficient quality and quantity to make the intended decisions. Project analytical samples were collected using standardized, USACE approved procedures documented in the sampling and analysis plan (SAP). The SAP was approved by the USACE prior to collection of the associated project samples and included the basis for selecting the sampling locations, sample collection procedures, frequency and type of samples collected, and the analytical parameters for each sample. There were no known deviations to the sample collection procedures presented in the SAP.

Definitive data measurements were required for the samples collected in support of this investigation. The investigation utilized the EPA Target Analyte List/Target Compound List (TAL/TCL) of analytes as the constituents of concern. The rationale for required analytical measurements and resulting data use is specified in the project QAPP.

Project samples included in this evaluation consist of primary round one groundwater samples and associated field QC samples collected in between January 21 and February 1 of 2005. The laboratories reported the round one groundwater samples and field QC analyses in several sample

delivery groups (SDGs). The SDGs included in this evaluation are:

1. E&E SDG # 0501263
2. E&E SDG # 0501276
3. E&E SDG # 0501293
4. E&E SDG # 0501297
5. E&E SDG # 0501303
6. E&E SDG # 0502001
7. E&E SDG # 0502002
8. E&E SDG # 0502004

A listing of specific project samples contained in each SDG, along with a cross reference of sample field ID numbers to laboratory ID numbers, is included in the Sample Information Table at the beginning of each SDG. The respective Sample Information tables have been compiled into a single table listing the samples evaluated from each SDG, and are included with this report as Attachment 1.

1.2.3 Project Analytical Methods and Measurement Parameters

In order to obtain definitive data and promote data comparability, the laboratory was required to perform testing within the guidelines of standardized, USEPA and USACE approved methods and procedures included in the following protocols:

- *"Test Methods for Evaluating Solid Waste,"* SW-846, 3rd Edition, Update III, U.S. EPA, November 1986, (SW-846).
- "*Shell for Analytical Chemistry Requirements*," Appendix I, from EM 200-1-3 "*Requirements for the Preparation of Sampling and Analysis Plans*" USACE HTRW-CX, February 2001.

The project included collection of definitive data for the organics and metals analyses, and screening level data for the water quality parameters for the round one groundwater samples. Specific analytical methods used in the analysis of each project sample were included in the laboratory case narratives included in each SDG and are summarized below for each primary sample type.

Definitive Data Methods for Groundwater Samples

- TCL Volatile organic compounds (VOCs) by SW-846 50305/8260B
- TCL Semi-volatile organic compounds (SVOCs) by SW-846 3520C/8270C
- Polychlorinated biphenyls (PCBs) by SW-846 3520C/8082
- Nitroaromatics by SW-846 8330
- TAL Total and Dissolved Metals by SW-846 3005AB/6010B/7470A
- Total Organic Carbon (TOC) by SW-846 9060
- Cyanide by SW-846 9012A

Water Quality Parameters

- Turbidity by EPA 180.1
- Alkalinity by EPA 310.1
- Hardness by EPA 130.2
- Total Dissolved Solids by EPA 160.1

- Total Suspended Solids by EPA 160.2
- Anions (Nitrate, Chloride, and Sulfate) by EPA 300

1.2.4 Data Evaluation Procedure

The quality of this data has been evaluated following the "data verification" procedure included in the QAPP as Step 2 of the five-step USACE DQA process. The procedure was derived from the USACE "*Shell for Analytical Chemistry Requirements*" and considers the project DQOs, QC requirements of the analytical methods, and informed professional judgment of the evaluator. Qualified Jacobs' personnel, experienced in the evaluation of analytical data quality, performed data evaluation.

A brief description of the procedure followed in this evaluation is presented below.

Data Verification Procedure

At a minimum, the following data quality issues were addressed in this evaluation with respect to 100% of the sample data.

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.
- Review of field QC blank data to detect contamination from outside sources.
- Review of field QC duplicates to evaluate data reproducibility.
- Review of laboratory QC including laboratory blanks, spike recoveries, and duplicates.
- Verification of calibrations as summarized by the laboratory on the CLP-like reporting forms and within their case narratives.
- Qualification of unusable data as rejected and attachment of appropriate qualifiers to usable data.
- Presentation of data evaluation findings in terms of the data quality parameters precision, accuracy, representativeness, sensitivity and completeness.

Data quality parameters were evaluated as follows:

- Precision - by evaluation of Matrix Spike/Matrix Spike Duplicate (MS/MSD), laboratory duplicate, and field duplicate relative percent differences (RPD).
- Accuracy - by evaluation of surrogate (SUR), Laboratory Control Sample (LCS), and MS/MSD percent recoveries (%R).
- Representativeness - by evaluation of sample receipt records, technical holding times, and blank sample results (field and laboratory).
- Sensitivity - by evaluation of laboratory detection limits, reporting units, and the overall performance of the chosen methods.
- Completeness - by comparing the number of valid measurements obtained to the number of measurements planned for these samples.

1.2.5 Data Reporting Formats

1.2.5.1 Laboratory Data Packages and Analytical Results

The laboratory reported field sample and supporting QC data in a format consistent with the USEPA Contract Laboratory Program (CLP) data reporting requirements. This "CLP-like" format included most applicable report summary forms and was sufficient to complete Step 2 of the DQA process. In a few cases the raw quantitation reports had to be reviewed to evaluate dilutions, manual integrations, and to check for proper quantitation.

The supplied reports did include chromatograms and other raw data that are necessary to complete a third party validation of the DQA process for all parameters of interest. However, third party validation is not currently planned for the acid areas. Jacobs has supplied copies of the complete QA data packages and the associated primary sample data to Stratum Engineering to complete their assessment of the QA data and the Chemical Quality Assurance Report (CQAR).

The complete analytical data packages received from the project laboratories and evaluated in this review are available from Jacobs upon request through USACE Nashville.

1.2.5.2 Data Quality Non-Conformances

Data quality non-conformances identified as a result of this review are presented in Section 4.0, Data Quality Narratives. The data quality narratives are detailed explanations of the findings of this evaluation in terms of precision, accuracy, representativeness, sensitivity and completeness. They are intended to present a compilation of laboratory QC results found outside project acceptance criteria and provide an assessment of the potential impact those results had on the analytical data. Typically, the bulk of the project analytical protocol requirements are fulfilled and, therefore, are not summarized in the narratives.

Tabular presentations of the analytical sample results were included in each SDG. The respective laboratory test results tables were compiled into Data Summary Tables from the Electronic Data Deliverable (EDD) and were included with this report as Attachment 2. In addition, the validation qualifiers were applied to sample data to indicate data use limitations based on the findings of this evaluation.

2.0 DATA QUALIFIER DEFINITIONS

The following definitions provide explanations of the data qualifiers that may be assigned to results based on this evaluation. The data qualifier definitions are consistent with those used within the USEPA NFG referenced in Section 1.2.3 of this report.

U- The analyte was analyzed for but not detected (ND). The value preceding the U is the Contract Required Quantitation Limit (CRQL).

J- The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).

UJ- This flag is a combination of the U and J qualifiers. This indicates that the analyte is not present and the reported value is considered to be an estimated CRQL.

R- Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample.

B- The B flag is to be used for both organic and inorganic analyses when the analyte is found in the associated blank as well as the in the sample. The result is considered ND, and the reported value is considered to be an estimated CRQL.

N- There is presumptive evidence that the analyte is present, but it has not been confirmed. The analyte is tentatively identified. There is an indication that the reported analyte is present, however, all quality control requirements necessary for confirmation were not met.

3.0 DATA EVALUATION SUMMARY

3.1 OVERALL ASSESSMENT OF PROJECT DATA QUALITY

In general, QA/QC results associated with this data indicated that the data met "definitive data" standards and were of known quality. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site conditions at the time sampled.

Data reported are acceptable for the uses as intended with the required qualifications and limitations. The data users are urged to review the Data Quality Narratives and associated data qualifications before utilizing this data for decision-making.

Summary Of Required Data Qualifications

This section provides a summary of qualifiers applied to the data as a result of this evaluation. Attachment 2 includes tabular presentations of the analytical sample results with data qualifiers applied based on the findings of this evaluation. The data qualifier definitions applied during this review are presented in Section 2.0. Section 4.0, Data Quality Narratives, contains discussion of the evaluation findings along with an assessment of the impact on project data. Data qualified as estimated due to detection at a level below the laboratory quantitation limit but above the method detection limit were not included in this summary since they were not qualified due to QC non-conformance.

SDG E&E 0501263

1. For the SVOC (method 8270C) analysis the Initial Calibration Verification (ICV) had marginally low biased recoveries for benzoic acid and pentachlorophenol. The associated sample did not contain detects for either compound, and was qualified as estimated undetected "UJ" for the compounds due to marginal ICV outliers.

2. For the SVOC (method 8270C) analysis the LCS/LCSD had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, and benzoic acid. The associated sample did not contain detects for the compounds and was qualified as estimated undetected "UJ" for the 2-4-dimethylphenol and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10% and 8%) and the compound was rejected "R" to indicate the potential low bias.

3. For the nitroaromatic (method 8330) analysis the LCS had a marginally low recovery of tetryl. Tetryl was not detected in the associated sample and was qualified as estimated undetected "UJ" to indicate the potential low bias.

4. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the associated sample and was qualified as estimated undetected "UJ" to indicate the potential low bias.

5. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium. The non-detect result for selenium in the associated sample was qualified as estimated undetected ("UJ") due to the exceedance of the MS/MSD accuracy criteria.

6. The nitrate analysis (EPA 300) and turbidity analysis for this SDG were performed marginally outside the 48 hour holding time. The non-detect result for turbidity was qualified as "UJ", and the trace level detect for Nitrate was qualified as "J" for the affected sample in the SDG.

7. The Cyanide (method 9012A) LCS and MS performed on an associated project sample recovered marginally low biased and the MS/MSD had a high RPD. The non-detect cyanide result in the associated sample in this SDG was qualified as estimated undetected "UJ".

SDG E&E 0501276

1. For the SVOC (method 8270C) analysis the Initial Calibration Verification (ICV) had marginally low biased recoveries for benzoic acid and pentachlorophenol. The three associated samples in this SDG did not contain detects for either compound and were qualified as estimated undetected "UJ" for the compounds due to marginal ICV outliers.

2. For the SVOC (method 8270C) analysis the LCS/LCSD had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, and benzoic acid. The three associated samples did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10% and 8%) and the compound was rejected "R" in all three samples in this SDG to indicate the potential low bias.

3. For the nitroaromatic (method 8330) analysis sample PBOW-05-GW-PB-BEDMW19-01A had a marginally low biased surrogate recovery. All nitroaromatic compounds were nondetects in the sample and qualified as estimated undetected "UJ" to indicate the potential low bias.

4. For the nitroaromatic (method 8330) analysis the LCS had a marginally low recovery of tetryl. Tetryl was not detected in the three associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

5. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the three associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

6. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium. The non-detect result for selenium in the three associated samples in this SDG were qualified as estimated undetected ("UJ") due to the exceedance of the MS/MSD accuracy criteria.

7. For the total metals (method 6010B/7471A) analysis for sample PBOW-05-GW-AA2-MKMW09-01A, the trace level detect of zinc was qualified as "B" due to contamination in the ICB.

8. For the total metals (method 6010B/7471A) analysis for samples PBOW-05-GW-AA3-BEDGW001-01A and PBOW-05-GW-PB-BEDMW19-01A, the trace level detects of chromium were qualified as "B" due to contamination in the ICB.

9. For the dissolved metals (method 6010B/7471A) analysis for samples PBOW-05-GW-AA2-MKMW09-01A and PBOW-05-GW-PB-BEDMW19-01A, the trace level detects of chromium

were qualified as "B" due to contamination in the ICB.

10. For the dissolved metals (method 6010B/7471A) analysis for sample PBOW-05-GW-AA2-MKMW09-01A, the trace level detects of zinc was qualified as "B" due to contamination in the ICB.

11. For sample PBOW-05-GW-PB-BEDMW19-01A the lab duplicate and MS for the chloride analysis (EPA 300) had recovery and precision outliers. The chloride detects in all three associated samples were qualified as estimated "J" to indicate the inaccurate and imprecise measurement.

12. For sample PBOW-05-GW-PB-BEDMW19-01A the lab duplicate for the sulfate analysis (EPA 300) had a precision outlier of the RPD criteria. The sulfate result was qualified as estimated "J" to indicate the precision outlier.

13. The Cyanide (method 9012A) LCS and MS performed on an associated project sample recovered marginally low biased and the MS/MSD had a high RPD. The non-detect cyanide results in all three samples were qualified as estimated undetected "UJ".

SDG E&E 0501293

1. The positive result for chloroform in sample PBOW-05-GW-AA3-BEDGW002-01A (VOC 8260B analysis) was qualified as "B" due to trip blank contamination.

2. For the VOC (method 8260B) analysis the LCS had marginally low recoveries for 1,2,3-trichlorobenzene. The five associated samples did not contain detects for the compound and were qualified as estimated undetected "UJ" for 1,2,3-trichlorobenzene.

3. For the VOC (method 8260B) analysis the MS/MSD had no recovery for acetone and methyl acetate. The associated LCS was acceptable for the compounds. The five associated samples did not contain detects for the compounds and were qualified as estimated undetected "UJ" for acetone and methyl acetate.

4. For the SVOC (method 8270C) analysis the Initial Calibration Verification (ICV) had marginally low biased recoveries for benzoic acid and pentachlorophenol. The four associated samples in this SDG did not contain detects for either compound and were qualified as estimated undetected "UJ" for the compounds due to marginal ICV outliers.

5. For the SVOC (method 8270C) analysis the LCS had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, 4-chloroaniline, and benzoic acid. The four associated samples did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol, 4-chloroaniline, and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10% and 8%) and the compound was rejected "R" in all four samples in this SDG to indicate the potential low bias.

6. For the SVOC (method 8270C) analysis the MS/MSD had no recovery for hexachlorocyclopentadiene. The four associated samples did not contain detects for the compound and were already qualified as estimated undetected "UJ" due to the LCS outlier. No further action deemed necessary.

7. For the nitroaromatic (method 8330) analysis the MS/MSD had no recovery for tetryl. The associated LCS was acceptable. The nondetects for tetryl in all four associated samples in

this SDG were qualified as estimated undetected "UJ" to indicate the potential low bias.

8. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the four associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

9. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium. The non-detect results for selenium in the four associated samples in this SDG were qualified as estimated undetected ("UJ") due to the exceedance of the MS/MSD accuracy criteria.

10. For the total and dissolved metals (method 6010B/7471A) analysis trace level detects of chromium in all four samples were qualified as "B" due to contamination in the ICB.

11. For the total metals (method 6010B/7471A) analysis for samples PBOW-05-GW-AA3-GW003-01A, PBOW-05-GW-AA3-GW003-01D, and PBOW-05-GW-AA2-GW002-01A, the trace level detects of iron and nickel were qualified as "B" due to contamination in the CCB.

12. For the dissolved metals (method 6010B/7471A) analysis for samples PBOW-05-GW-AA2-GW002-01A, the trace level detects of cobalt and nickel were qualified as "B" due to contamination in the ICB.

13. For the dissolved metals (method 6010B/7471A) analysis for sample PBOW-05-GW-AA2-MKMW09-01A, the trace level detects of zinc was qualified as "B" due to contamination in the ICB.

14. The method blank for the nitrate analysis associated with all four samples in this batch contained nitrate. All four samples results for nitrate were detects and were qualified as "B" because of the method blank contamination.

15. The Cyanide (method 9012A) LCS and MS performed on an associated project sample recovered marginally low biased and the MS/MSD had a high RPD. The non-detect cyanide results in all four samples were qualified as estimated undetected "UJ".

SDG E&E 0501297

1. The positive result for acetone in sample PBOW-05-GW-AA3-GW005-01A (VOC 8260B analysis) was qualified as "B" due to trip blank contamination.

2. For the VOC (method 8260B) analysis the LCS had marginally low recoveries for 1,2,3-trichlorobenzene. The three associated samples in this SDG did not contain detects for the compound and were qualified as estimated undetected "UJ" for 1,2,3-trichlorobenzene.

3. For the SVOC (method 8270C) analysis the Initial Calibration Verification (ICV) had marginally low biased recoveries for benzoic acid and pentachlorophenol. The two associated samples in this SDG did not contain detects for either compound and were qualified as estimated undetected "UJ" for the compounds due to marginal ICV outliers.

4. For the SVOC (method 8270C) analysis the LCS had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, 4-chloroaniline, and benzoic acid. The two associated samples

did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol, 4-chloroaniline, and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10%) and the compound was rejected "R" in all four samples in this SDG to indicate the potential low bias.

5. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the two associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

6. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium. The non-detect results for selenium in the two associated samples in this SDG were qualified as estimated undetected ("UJ") due to the exceedance of the MS/MSD accuracy criteria.

7. For the total and dissolved metals (method 6010B/7471A) analysis trace level detects of chromium in both samples were qualified as "B" due to contamination in the ICB.

8. For the total metals (method 6010B/7471A) analysis for sample PBOW-05-GW-AA3-GW005-01A the trace level detect of nickel was qualified as "B" due to contamination in the CCBs.

9. For the dissolved metals (method 6010B/7471A) analysis for sample PBOW-05-GW-AA3-GW005-01A the trace level detect of potassium was qualified as "B" due to contamination in the CCB.

10. For the dissolved metals (method 6010B/7471A) analysis trace level detects of cobalt and nickel in both samples were qualified as "B" due to contamination in the ICB.

11. The anions high CCV had marginally high biased recoveries for chloride and sulfate. The detects of chloride and sulfate in both associated samples in this SDG were qualified as estimated "J".

12. The trace level nitrate detects in both samples in this SDG were qualified as "B" due to blank contamination in the associated CCB.

13. The Cyanide (method 9012A) MS performed on an associated project sample recovered marginally low biased and the MS/MSD had a high RPD. The non-detect cyanide results in both samples in this SDG were qualified as estimated undetected "UJ".

SDG E&E 0501303

1. For the SVOC (method 8270C) analysis the Initial Calibration Verification (ICV) had marginally low biased recoveries for benzoic acid and pentachlorophenol. The two associated samples in this SDG did not contain detects for either compound and were qualified as estimated undetected "UJ" for the compounds due to marginal ICV outliers.

2. For the SVOC (method 8270C) analysis the LCS had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, 4-chloroaniline, and benzoic acid. The two associated samples did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol, 4-chloroaniline, and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10%) and the compound was rejected "R" in all

four samples in this SDG to indicate the potential low bias.

3. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the two associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

4. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium. The non-detect results for selenium in the two associated samples in this SDG were qualified as estimated undetected ("UJ") due to the exceedance of the MS/MSD accuracy criteria.

5. The Cyanide (method 9012A) MS performed on an associated project sample recovered marginally low biased and the MS/MSD had a high RPD. The non-detect cyanide results in both samples in this SDG were qualified as estimated undetected "UJ".

SDG E&E 0502001

1. For the SVOC (method 8270C) analysis the LCS had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, and benzoic acid. The three associated samples did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol, and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (10%) and the compound was rejected "R" in all four samples in this SDG to indicate the potential low bias.

2. For the PCB (method 8082) analysis of sample PBOW-05-GW-AA3-GW004-01A one of the two surrogate recoveries was biased low (TCMX 15%). The other surrogate recovery was acceptable. The nondetects PCB results for the sample were qualified as estimated undetected "UJ" to indicate the potential low bias.

3. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the three associated samples and was qualified as estimated undetected "UJ" to indicate the potential low bias.

4. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium and a high bias for sodium. The non-detect results for selenium in the three associated samples in this SDG were qualified as estimated undetected ("UJ") and the detects of sodium in all three samples were qualified as estimated "J" due to the exceedances of the MS/MSD accuracy criteria.

5. The total metals method blank contained trace levels of chromium and copper that resulted in the qualification of low level detects of chromium in all three samples as undetected "U", and the qualification of the low level detect of copper in sample PBOW-05-GW-AA3-BEDMW003-01A as undetected "U".

6. The dissolved metals method blank contained trace levels of nickel that resulted in the qualification of low level detect of nickel in sample PBOW-05-GW-AA3-GW004-01A as "B".

7. The total metals ICB contained trace levels of chromium and nickel that resulted in the qualification of low level detect of chromium in sample PBOW-05-GW-AA3-BEDMW003-01A as "B", and the qualification of the low level detect of nickel in sample PBOW-05-GW-AA3-

GW004-01A as "B".

8. The dissolved metals ICB and CCB contained trace levels of beryllium, chromium, and nickel that resulted in the qualification of low level detect of beryllium in sample PBOW-05-GW-AA3-BEDMW003-01A as "B", chromium in sample PBOW-05-GW-AA3-BEDMW003-01D as "B", and nickel in sample PBOW-05-GW-AA3-GW004-01A as "B".

9. The dissolved mercury CCB contained trace levels of mercury that resulted in the qualification of low level detect of mercury in sample PBOW-05-GW-AA3-BEDMW003-01A as "B".

10. The nitrate analyses for both samples in this SDG were performed 4-5 hours in excess of the 48-hour holding time. The detect for nitrate in both samples were qualified as estimated "J". However, the detect in sample PBOW-05-GW-AA3-GW004-01A was subsequently changed to "BJ" due to method blank contamination.

11. The nitrate detect in sample PBOW-05-GW-AA3-GW004-01A was qualified as estimated "J" due to marginally high biased LCS and CCV.

12. The chloride detect in sample PBOW-05-GW-AA3-BEDMW003-01A was qualified as estimated "J" due to marginally high biased LCS and CCV.

13. The TSS LCS was biased marginally low resulting in the qualification of the nondetect results in both samples as estimated "UJ".

SDG E&E 0502002

1. For the SVOC (method 8270C) analysis the LCS had low recoveries for 2-4-dimethylphenol, hexachlorocyclopentadiene, and benzoic acid. The associated sample did not contain detects for the compounds and were qualified as estimated undetected "UJ" for the 2-4-dimethylphenol, and the hexachlorocyclopentadiene outliers. The benzoic acid recovery was very low biased (12% and 13%) and the compound was rejected "R" in the sample in this SDG to indicate the potential low bias.

2. For the nitroaromatic (method 8330) analysis the ICV had a marginally low recovery of 2-ammino-4,6-dinitrotoluene. 2-ammino-4,6-dinitrotoluene was not detected in the associated sample and was qualified as estimated undetected "UJ" to indicate the potential low bias.

3. For the total and dissolved metals (method 6010B/7471A) analysis the MS/MSD associated with the batch failed the recovery criteria with a low bias for selenium and a high bias for sodium. The non-detect results for selenium in the associated sample in this SDG was qualified as estimated undetected ("UJ") and the detect of sodium in the sample was qualified as estimated "J" due to the exceedances of the MS/MSD accuracy criteria.

4. The total metals method blank contained trace levels of chromium and copper that resulted in the qualification of low level detect of chromium in sample PBOW-05-GW-AA2-ITMW10-01A as "B".

5. The dissolved metals method blank contained trace levels of nickel and silver that resulted in the qualification of low level detect of nickel in sample PBOW-05-GW-AA2-ITMW10-01A as "B".

6. The dissolved metals ICB contained trace levels of nickel that resulted in the qualification of low level detect of nickel in sample PBOW-05-GW-AA2-ITMW10-01A as "B".

7. The total mercury CCB contained trace levels of mercury that resulted in the qualification of low level detect of mercury in sample PBOW-05-GW-AA2-ITMW10-01A as "B".

8. The chloride and nitrate detects in sample PBOW-05-GW-AA2-ITMW10-01A were qualified as estimated "J" due to marginally high biased LCS and CCV.

9. The chloride detect in sample PBOW-05-GW-AA3-BEDMW003-01A was qualified as estimated "J" due to marginally high biased LCS and CCV.

10. The TSS LCS was biased marginally low resulting in the qualification of the nondetect results in both samples as estimated "UJ".

SDG E&E 0502004

1. For the VOC (method 8260B) analysis the LCS had marginally low recoveries for bromoform. Both associated samples in this SDG did not contain detects for the compound and were qualified as estimated undetected "UJ" for bromoform.

4.0 DATA QUALITY NARRATIVES

The findings of this data quality evaluation are presented below in terms of precision, accuracy, representativeness, sensitivity and completeness.

4.1 DATA PRECISION

4.1.1 Field QC Duplicate Precision Review

Project field duplicate precision indicators were found to be in control for each analytical method without exception.

4.1.2 Laboratory Duplicate Precision Review

Project laboratory duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The Cyanide MS/MSD RPD for sample PBOW-05-GW-AA3-BEDGW002-01A in E&E SDG 0501293 was 71%, exceeding the 20% RPD criteria. The non-detect cyanide results in the associated samples in the lab batch were qualified as estimated undetected "UJ".

Affected Sample	Analyte	MS/MSD RPD	Qualifier
PBOW-05-GW-AA3-BEDGW002-01A	Cyanide	71%	UJ
PBOW-05-GW-AA3-GW002-01A			
PBOW-05-GW-AA3-BEDGW001-01A			
PBOW-05-GW-AA2-MKMW09-01A			
PBOW-05-GW-PB-BEDMW19-01A			
PBOW-05-GW-AA3-GW003-01A			
PBOW-05-GW-AA3-GW003-01D			
PBOW-05-GW-AA2-GW002-01A			
PBOW-05-GW-AA3-GW005-01A			
PBOW-05-GW-AA2-BEDGW001-01A			

2. The Chloride MS/MSD RPD for sample PBOW-05-GW-PB-BEDMW19-01A in E&E SDG 0501276 was 54%, exceeding the 20% RPD criteria. The chloride detects in all three associated samples in the SDG were qualified as estimated "J" to indicate the potential imprecise measurement.

Affected Samples	Analyte	MS/MSD RPD	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A	Chloride	54%	UJ
PBOW-05-GW-AA2-MKMW09-01A			
PBOW-05-GW-PB-BEDMW19-01A			

3. The Sulfate laboratory duplicate performed on sample PBOW-05-GW-PB-BEDMW19-01A in E&E SDG 0501276 was 22%, exceeding the 20% RPD criteria. The sulfate detects in all three associated samples in the SDG were qualified as estimated "J" to indicate the potential imprecise measurement.

Affected Samples	Analyte	Lab. Dup. RPD	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A	Sulfate	22%	UJ
PBOW-05-GW-AA2-MKMW09-01A			
PBOW-05-GW-PB-BEDMW19-01A			

4.2 DATA ACCURACY

4.2.1 Data Accuracy Indicators Review

Project accuracy indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings: SDG E&E 0501263

1. The VOC LCS associated with the groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 recovered high for one compound (Trichlorofluoromethane 138%). However, the compound was not detected in the associated sample and qualification of a non-detect result for a high bias is not necessary.

2. The VOC ICAL associated with the groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 had marginally high % RSDs for two compounds (Trichlorofluoromethane 15.2% and 1,2,4-Trichlorobenzene 16.2%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

3. The VOC Continuing Calibration Verification (CCV) associated with groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 had marginally high % Ds for two compounds (Trichlorofluoromethane 23.7% and 1,2,3-Trichlorobenzene 21.6%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

4. The SVOC Initial Calibration Verification (ICV) associated with groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 had marginally low recoveries for two compounds (Benzoic acid 77% and Pentachlorophenol 74%). The affected sample was nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analytes.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Benzoic Acid	77%	UJ
	Pentachlorophenol	74%	UJ

5. The SVOC LCS associated with the groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 recovered low for three analytes. The analytes were not detected in the associated sample and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Benzoic Acid	8% & 10%	R
	2,4-Dimethylphenol	19% & 15%	UJ
	Hexachlorocyclopentadiene	51% (LCSD)	UJ

6. The Nitroaromatic LCS associated with the groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 recovered low for one analyte. The analyte was not detected in the associated sample and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Tetryl	58%	UJ

7. The Nitroaromatic Initial Calibration Verification (ICV) associated with groundwater sample PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 had a marginally low recovery for one analyte. The affected sample was nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

8. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. This MS/MSD was batched with the sample in E&E SDG 0501263. The affected sample and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Selenium	49% / 47%	UJ

9. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. This MS/MSD was batched with the sample in E&E SDG 0501263. The affected sample and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Selenium	42% / 43%	UJ

10. The Cyanide LCS associated with PBOW-05-GW-AA3-GW002-01A in SDG E&E 0501263 recovered marginally low at 68%. The affected sample and qualification is indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Cyanide	68%	UJ

11. The Cyanide MS analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low at 40%. This MS/MSD was batched with the sample in E&E SDG 0501263. The affected sample and qualification is indicated below.

Affected Samples	Analyte	MS %R	Qualifier
PBOW-05-GW-AA3-GW002-01A	Cyanide	40%	UJ

Specific Findings: SDG E&E 0501276

1. The VOC LCS associated with the four groundwater samples in SDG E&E 0501276 recovered high for one compound (Trichlorofluoromethane 138%). However, the compound was not detected in the associated samples and qualification of non-detect results for a high bias is not necessary.

2. The VOC ICAL associated with the four groundwater samples in SDG E&E 0501276 had marginally high % RSDs for two compounds (Trichlorofluoromethane 15.2% and 1,2,4-Trichlorobenzene 16.2%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

3. The VOC Continuing Calibration Verifications (CCV) associated with the four groundwater samples in SDG E&E 0501276 had marginally high % Ds for two compounds (Trichlorofluoromethane 23.7% and 1,2,3-Trichlorobenzene 22.8%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

4. The SVOC Initial Calibration Verification (ICV) associated with the three groundwater samples in SDG E&E 0501276 had marginally low recoveries for two compounds (Benzoic acid 77% and Pentachlorophenol 74%). The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analytes.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A	Benzoic Acid	77%	UJ
PBOW-05-GW-AA2-MKMW09-01A	Pentachlorophenol	74%	UJ
PBOW-05-GW-PB-BEDMW19-01A			

5. The SVOC LCS associated with the three groundwater samples in SDG E&E 0501276 recovered low for three analytes. The analytes were not detected in the associated samples

and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Q
PBOW-05-GW-AA3-BEDGW001-01A	Benzoic Acid	8% & 10%	R
PBOW-05-GW-AA2-MKMW09-01A	2,4-Dimethylphenol	19% & 15%	UJ
PBOW-05-GW-PB-BEDMW19-01A	Hexachlorocyclopentadiene	51% (LCSD)	UJ

6. The Nitroaromatic LCS associated with the three groundwater samples in SDG E&E 0501276 recovered low for one analyte. The analyte was not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Tetryl	58%	UJ

7. The Nitroaromatic Initial Calibration Verification (ICV) associated with the three groundwater samples in SDG E&E 050127 had a marginally low recovery for one analyte. The affected samples were nondetect for the analyte and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

8. The nitroaromatic surrogate recovery for one groundwater sample in E&E SDG 0501276 biased marginally low. All nitroaromatic target analytes were nondetect in the sample and qualified as estimated "UJ"

Affected Samples	Analyte	Surr %R	Q
PBOW-05-GW-PB-BEDMW19-01A	All 8330 Nitroaromatic target analytes	60%	UJ

9. The total metals MS/MSD analysis performed on sample PBOW-05-GW-PB-BEDM19-01A associated with SDG E&E 0501273 recovered marginally low for Selenium. The affected samples and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Selenium	49% / 47%	UJ

10. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-PB-BEDMW19-01A associated with SDG E&E 0501276 recovered marginally low for Selenium. The affected samples and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Selenium	42% / 43%	UJ

11. The Cyanide LCS associated with the three groundwater samples in SDG E&E 0501276 recovered marginally low at 68%. The affected samples and qualification is indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Cyanide	68%	J UJ J

12. The Cyanide MS analysis performed on sample PBOW-05-GW-PB-BEDMW19-01A associated with SDG E&E 0501276 recovered marginally low at 40%. The affected samples and qualification is indicated below.

Affected Samples	Analyte	MS %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Cyanide	40%	J UJ J

13. The Chloride MS analysis performed on sample PBOW-05-GW-PB-BEDMW19-01A associated with SDG E&E 0501276 recovered marginally low at 50%. The affected samples and qualification is indicated below.

Affected Samples	Analyte	MS %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-01A PBOW-05-GW-AA2-MKMW09-01A PBOW-05-GW-PB-BEDMW19-01A	Chloride	50%	J

Specific Findings: SDG E&E 0501293

1. The VOC LCS associated with the five groundwater samples in SDG E&E 0501293 recovered marginally low for one compound (1,2,3-Trichlorobenzene 76%). The analyte was not detected in the associated samples and was qualified as estimated "UJ".

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A PBOW-05-TB-012505-01	1,2,3-Trichlorobenzene	76%	UJ

2. The VOC ICAL associated with the five groundwater samples in SDG E&E 0501293 had marginally high % RSDs for two compounds (Trichlorofluoromethane 15.2% and 1,2,4-Trichlorobenzene 16.2%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

3. The VOC Continuing Calibration Verifications (CCV) associated with the five groundwater samples in SDG E&E 0501293 had marginally high % Ds for two compounds (Trichlorofluoromethane 25.5% and 1,2,3-Trichlorobenzene 22.8%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

4. The VOC MS/MSD associated with the five groundwater samples in SDG E&E 0501293 had no recovery (0%) for acetone and methyl acetate. The associated LCS was acceptable for the analytes, and the analytes were not detected in the associated field samples, but was detected at a trace level in the trip blank. The samples were qualified as indicated in the table below.

Affected Samples	Analyte	MS/MSD %R	Q
PBOW-05-GW-AA3-GW003-01A	Acetone	0%	UJ
PBOW-05-GW-AA3-GW003-01D			UJ
PBOW-05-GW-AA3-BEDGW002-01A			UJ
PBOW-05-GW-AA2-GW002-01A			UJ
PBOW-05-TB-012505-01			J
PBOW-05-GW-AA3-GW003-01A	2,4-Dimethylphenol	0%	UJ
PBOW-05-GW-AA3-GW003-01D			UJ
PBOW-05-GW-AA3-BEDGW002-01A			UJ
PBOW-05-GW-AA2-GW002-01A			UJ
PBOW-05-TB-012505-01			UJ

5. The SVOC Initial Calibration Verification (ICV) associated with the four groundwater samples in SDG E&E 0501293 had marginally low recoveries for two compounds (Benzoic acid 77% and Pentachlorophenol 74%). The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analytes.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-GW003-01A	Benzoic Acid	77%	UJ
PBOW-05-GW-AA3-GW003-01D	Pentachlorophenol	74%	UJ
PBOW-05-GW-AA3-BEDGW002-01A			
PBOW-05-GW-AA2-GW002-01A			

6. The SVOC LCS associated with the four groundwater samples in SDG E&E 0501293 recovered low for four analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA3-GW003-01A	Benzoic Acid	10%	R
PBOW-05-GW-AA3-GW003-01D	2,4-Dimethylphenol	54%	UJ
PBOW-05-GW-AA3-BEDGW002-01A	Hexachlorocyclopentadiene	59%	UJ
PBOW-05-GW-AA2-GW002-01A	4-Chloroaniline	56%	UJ

7. The SVOC MS/MSD performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with the four groundwater samples in SDG E&E 0501293 had no recovery for hexachlorocyclopentadiene. The analyte was not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	MS/MSD %R	Q
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Hexachlorocyclopentadiene	0%	UJ

8. The Nitroaromatic MS/MSD associated with the four groundwater samples in SDG E&E 0501293 performed on sample PBOW-05-GW-AA3-BEDGW002-01A had no recovery for tetryl. The analyte was acceptable in the associated LCS and not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Tetryl	0%	UJ

9. The Nitroaromatic Initial Calibration Verification (ICV) associated with the four groundwater samples in SDG E&E 0501293 had a marginally low recovery for one analyte. The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

10. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Selenium	49% / 47%	UJ

11. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. The affected samples and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Selenium	42% / 43%	UJ

12. The Cyanide LCS associated with the four groundwater samples in SDG E&E 0501293 recovered marginally low at 68%. The affected samples and qualification are indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Cyanide	68%	UJ

13. The Cyanide MS analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low at 40%. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS %R	Qualifier
PBOW-05-GW-AA3-GW003-01A PBOW-05-GW-AA3-GW003-01D PBOW-05-GW-AA3-BEDGW002-01A PBOW-05-GW-AA2-GW002-01A	Cyanide	40%	J UJ J

Specific Findings: SDG E&E 0501297

1. The VOC LCS associated with the three groundwater samples in SDG E&E 0501297 recovered marginally low for one compound (1,2,3-Trichlorobenzene 76%). The analyte was not detected in the associated samples and was qualified as estimated "UJ".

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA3-GW005-01A PBOW-05-GW-AA2-BEDGW001-01A PBOW-05-TB-012705-01	1,2,3-Trichlorobenzene	76%	UJ

2. The VOC ICAL associated with the three groundwater samples in SDG E&E 0501297 had marginally high % RSDs for two compounds (Trichlorofluoromethane 15.2% and 1,2,4-Trichlorobenzene 16.2%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

3. The VOC Continuing Calibration Verifications (CCV) associated with the three groundwater samples in SDG E&E 0501297 had marginally high % Ds for two compounds (Trichlorofluoromethane 25.5% and 1,2,3-Trichlorobenzene 22.8%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

4. The SVOC Initial Calibration Verification (ICV) associated with the two groundwater samples in SDG E&E 0501297 had marginally low recoveries for two compounds (Benzoic acid 77% and Pentachlorophenol 74%). The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analytes.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-GW005-01A	Benzoic Acid	77%	UJ
PBOW-05-GW-AA2-BEDGW001-01A	Pentachlorophenol	74%	UJ

5. The SVOC LCS associated with the two groundwater samples in SDG E&E 0501297 recovered low for four analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA3-GW005-01A	Benzoic Acid	10%	R
PBOW-05-GW-AA2-BEDGW001-01A	2,4-Dimethylphenol	54%	UJ
	Hexachlorocyclopentadiene	59%	UJ
	4-Chloroaniline	56%	UJ

6. The Nitroaromatic Initial Calibration Verification (ICV) associated with the two groundwater samples in SDG E&E 0501297 had a marginally low recovery for one analyte. The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA3-GW005-01A PBOW-05-GW-AA2-BEDGW001-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

7. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. This MS/MSD was batched with the samples in E&E SDG 0501297. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW005-01A PBOW-05-GW-AA2-BEDGW001-01A	Selenium	49% / 47%	UJ

8. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDGW002-01A associated with SDG E&E 0501293 recovered marginally low for Selenium. This MS/MSD was batched with the samples in E&E SDG 0501297. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW005-01A PBOW-05-GW-AA2-BEDGW001-01A	Selenium	42% / 43%	UJ

9. The Cyanide MS analysis performed on sample PBOW-05-GW-AA3-GW005-01A associated with SDG E&E 0501297 recovered marginally low at 40%. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS %R	Qualifier
PBOW-05-GW-AA3-GW005-01A	Cyanide	40%	J
PBOW-05-GW-AA2-BEDGW001-01A			UJ
			J

10. The Anions CCVs for Chloride and Sulfate associated with the two groundwater samples in SDG E&E 0501297 had marginally high biased recoveries. The detects for chloride and sulfate in both samples were qualified as estimated to indicate the potential high bias for the analyte.

Affected Samples	Analyte	CCV %R	Q
PBOW-05-GW-AA3-GW005-01A	Chloride	113%	J
	Sulfate	111%	J
PBOW-05-GW-AA2-BEDGW001-01A	Chloride	113%	J
	Sulfate	111%	J

Specific Findings: SDG E&E 0501303

1. The SVOC Initial Calibration Verification (ICV) associated with the two equipment blank samples in SDG E&E 0501303 had marginally low recoveries for two compounds (Benzoic acid 77% and Pentachlorophenol 74%). The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analytes.

Affected Samples	Analyte	ICV %R	Qualifier
PBOW-05-GW-AA3-GW005-01C	Benzoic Acid	77%	UJ
PBOW-05-GW-AA2-BEDGW001-01C	Pentachlorophenol	74%	UJ

2. The SVOC LCS associated with the two equipment blank samples in SDG E&E 0501303 recovered low for four analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA3-GW005-01C	Benzoic Acid	10%	R
PBOW-05-GW-AA2-BEDGW001-01C	2,4-Dimethylphenol	54%	UJ
	Hexachlorocyclopentadiene	59%	UJ
	4-Chloroaniline	56%	UJ

3. The Nitroaromatic Initial Calibration Verification (ICV) associated with the two equipment blank samples in SDG E&E 0501303 had a marginally low recovery for one analyte. The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA3-GW005-01C	2-Ammino-4,6-dinitrotoluene	83%	UJ
PBOW-05-GW-AA2-BEDGW001-01C			

Specific Findings: SDG E&E 0502001

1. The VOC ICAL associated with the six groundwater samples in SDG E&E 0502001 had a marginally high % RSD for one compound (Trichlorofluoromethane 21.2%). However, the mean RSD for all compounds was acceptable, and the outliers were less than 30%. Therefore, no qualification was deemed necessary.

2. The SVOC LCS associated with the three groundwater samples in SDG E&E 0502001 recovered low for three analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Q
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Benzoic Acid	12% / 13%	R
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	2,4-Dimethylphenol	32% / 41%	UJ
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Hexachlorocyclopentadiene	59% (LCSD)	UJ

3. The PCB surrogate recovery for one groundwater sample in E&E SDG 0502001 was biased low. All PCB target analytes were nondetect in the sample and the other surrogate was acceptable.

Affected Samples	Analyte	Surr %R	Q
PBOW-05-GW-AA3- GW004-01A	All 8082 PCB target analytes	15%	UJ

4. The Nitroaromatic Initial Calibration Verification (ICV) associated with the three groundwater samples in SDG E&E 0502001 had a marginally low recovery for one analyte. The affected samples were nondetect for the analytes and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

5. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDMW003-01A associated with SDG E&E 0502001 recovered low for Selenium and high for Sodium. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Selenium	23% / 25%	R (All ND)
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Sodium	135% (MS)	J (All detect)

6. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDMW003-01A associated with SDG E&E 0502001 recovered low for Selenium and Sodium. The affected samples and qualification are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Selenium	25% / 24%	R (All ND)
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-BEDMW003-01D PBOW-05-GW-AA3-GW004-01A	Sodium	53% / 67%	J (All detect)

7. The total suspended solids (TSS) LCS associated with the two groundwater samples in SDG E&E 0502001 had a marginally low biased recovery. The affected samples and qualification are indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-GW004-01A	TSS	76%	UJ

8. The anions low-level LCS associated with the two groundwater samples in SDG E&E 0502001 had high biased recoveries for Sulfate and Nitrate. The affected samples and qualification are indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-GW004-01A	Nitrate	111%	J
PBOW-05-GW-AA3-BEDMW003-01A PBOW-05-GW-AA3-GW004-01A	Sulfate	112%	J

9. The Anions CCVs for Chloride and Nitrate associated with the two groundwater samples in SDG E&E 0502001 had marginally high biased recoveries. The detects for chloride and nitrate were qualified as estimated to indicate the potential high bias for the analyte in the affected samples.

Affected Samples	Analyte	CCV %R	Q
PBOW-05-GW-AA3-BEDMW003-01A	Chloride	111%	J
PBOW-05-GW-AA3-GW004-01A	Nitrate	112%	J

Specific Findings: SDG E&E 0502002

1. The SVOC LCS associated with the groundwater sample in SDG E&E 0502002 recovered low for three analytes. The analytes were not detected in the associated sample and qualified as estimated.

Affected Samples	Analyte	LCS%R	Q
PBOW-05-GW-AA2-ITMW10-01A	Benzoic Acid	12%	R
	2,4-Dimethylphenol	41%	UJ
	Hexachlorocyclopentadiene	59%	UJ

2. The Nitroaromatic Initial Calibration Verification (ICV) associated with the groundwater sample in SDG E&E 0502002 had a marginally low recovery for one analyte. The affected sample were nondetect for the analyte and qualified as estimated to indicate the potential low bias for the analyte.

Affected Samples	Analyte	ICV %R	Q
PBOW-05-GW-AA2-ITMW10-01A	2-Ammino-4,6-dinitrotoluene	83%	UJ

3. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDMW003-01A associated with SDG E&E 0502001 recovered low for Selenium and high for Sodium. The MS/MSD for SDG 0502001 was batched with the groundwater sample from SDG 0502002 and the groundwater sample from SDG 0502002 was qualified as indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA2-ITMW10-01A	Selenium	23% / 25%	R
PBOW-05-GW-AA2-ITMW10-01A	Sodium	135% (MS)	J

4. The dissolved metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-BEDMW003-01A associated with SDG E&E 0502001 recovered low for Selenium and Sodium. The MS/MSD for SDG 0502001 was batched with the groundwater sample from SDG 0502002 and the groundwater sample from SDG 0502002 was qualified as indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA2-ITMW10-01A	Selenium	25% / 24%	R
PBOW-05-GW-AA2-ITMW10-01A	Sodium	53% / 67%	J

5. The total suspended solids (TSS) LCS associated with the groundwater sample in SDG E&E 0502002 had a marginally low biased recovery. The affected samples and qualification are indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA2-ITMW10-01A	TSS	76%	UJ

6. The anions low-level LCS associated with the groundwater sample in SDG E&E 0502002 had high biased recoveries for Sulfate and Nitrate. The affected samples and qualification

are indicated below.

Affected Samples	Analyte	LCS %R	Qualifier
PBOW-05-GW-AA2-ITMW10-01A	Nitrate	111%	J
PBOW-05-GW-AA2-ITMW10-01A	Sulfate	112%	J

7. The Anions CCVs for Chloride and Nitrate associated with the groundwater sample in SDG E&E 0502002 had marginally high biased recoveries. The detects for chloride and nitrate were qualified as estimated to indicate the potential high bias for the analyte in the affected samples.

Affected Samples	Analyte	CCV %R	Q
PBOW-05-GW-AA2-ITMW10-01A	Chloride	111%	J
PBOW-05-GW-AA2-ITMW10-01A	Nitrate	111%	J

Specific Findings: SDG E&E 0502004

1. The VOC LCS associated with the groundwater sample in SDG E&E 0502004 recovered marginally low for one compound (Bromoform 78%). The analyte was not detected in the associated sample and was qualified as estimated "UJ".

Affected Samples	Analyte	LCS %R	Q
PBOW-05-GW-AA2-ITMW10-01A	Bromoform	78%	UJ

2. The VOC ICAL associated with the groundwater sample in SDG E&E 0502004 had a marginally high % RSDs for one compounds (Trichlorofluoromethane 21.3%). However, the mean RSD for all compounds was acceptable, and the outlier was less than 30%. Therefore, no qualification was deemed necessary.

4.3 DATA REPRESENTATIVENESS

4.3.1 Sample Custody/Handling Documentation Review

The project samples were received at the laboratory adequately preserved, chilled within the required range of 4 ± 2 degrees Celsius, in good condition, and with required custody documentation in order without exception.

4.3.2 Sample Holding Time Review

QC data indicated requirements for holding times were met for each sample analysis, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The turbidity and nitrate analyses for sample PBOW-05-GW-AA3-GW002-01A in E&E SDG 0501263 were analyzed one day past the 48-hour holding time. Since the holding time was not grossly exceeded, the results were estimated. The nondetect turbidity result was qualified as estimated "UJ", and the detect for nitrate in the sample was qualified as estimated "J".

2. The turbidity and nitrate analyses for sample PBOW-05-GW-AA3-BEDGW001-01A in E&E SDG 0501276 were analyzed one hour past the 48-hour holding time. Since the holding time was only marginally exceeded, the results were not qualified.

3. The nitrate analyses for sample PBOW-05-GW-AA3-BEDMW003-01A and PBOW-05-GW-AA3-GW004-01A in E&E SDG 0502001 were analyzed approximately 5 hours past the 48-hour holding time. Since the holding time was not grossly exceeded, the results were estimated. The nondetect nitrate result in sample PBOW-05-GW-AA3-GW004-01A was qualified as estimated "UJ", and the detect for nitrate in sample PBOW-05-GW-AA3-BEDMW003-01A was qualified as estimated "J".

4.3.3 Blank Sample Results Review

QC data indicated requirements for blank sample results were met for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Finding:

1. The VOC trip blank associated with the groundwater sample in SDG E&E 0501263 contained low level detects of Chloroform, Acetone, and Methylene chloride. The associated groundwater sample was nondetect for the analytes present in the trip blank. No adverse affect to data quality or qualification resulted.

2. The VOC trip blank associated with the three groundwater samples in SDG E&E 0501276 contained low level detects of Chloroform, Acetone, and Methylene chloride. The associated groundwater samples were nondetect for the analytes present in the trip blank. No adverse affect to data quality or qualification resulted.

3. The VOC trip blank associated with the four groundwater samples in SDG E&E 0501293 contained low level detects of Chloroform, Acetone, and Methylene chloride. Three of the associated groundwater samples were nondetect for the analytes present in the trip blank and not affected or qualified. Sample PBOW-05-GW-AA3-BEDGW002-01A did have a positive result for chloroform that was less than five times the level detected in the trip blank. The chloroform result for sample PBOW-05-GW-AA3-BEDGW002-01A was qualified as "U".

4. The VOC trip blank associated with the two groundwater samples in SDG E&E 0501297 contained low level detects of Chloroform, Acetone, and Methylene chloride. One of the associated groundwater samples was nondetect for the analytes present in the trip blank and not affected or qualified. Sample PBOW-05-GW-AA3-GW005-01A did have a positive result for acetone that was less than five times the level detected in the trip blank. The acetone result for sample PBOW-05-GW-AA3- GW005-01A was qualified as "U".

5. The two metals equipment blank samples in SDG 0501303 contained trace level metals detects of a few metals compounds. The equipment blanks correspond to the two groundwater samples in SDG 0501297.

- Equipment blank PBOW-05-GW-AA3-GW005-01C corresponds to sample PBOW-05-GW-AA3- GW005-01A. Equipment blank PBOW-05-GW-AA3- GW005-01C contained sodium at 320 ug/L and vanadium at 2.21 ug/L. The corresponding total and dissolved metals analyses for the sample contained sodium at well above five times the blank level, and were nondetect for vanadium. No qualification was necessary.
- Equipment blank PBOW-05-GW-AA3-BEDGW001-01C corresponds to sample PBOW-05-GW-AA3-BEDGW001-01A. Equipment blank PBOW-05-GW-AA3-BEDGW001-01C contained sodium at 92.8 ug/L, vanadium at 2.90 ug/L, and barium at 4.71 ug/L. The corresponding total and dissolved metals analyses for the sample contained sodium and barium at well above five times the blank level, and were nondetect for vanadium. No qualification was necessary.
- The two VOC equipment blanks in SDG 0502001 contained low-level detects of several VOC compounds. The VOC equipment blanks correspond to the same two samples as the metals equipment blanks detailed above. The equipment blanks and corresponding samples were scrutinized and it was determined that no qualification was necessary. All of the VOC compounds detected in the VOC equipment blanks were either nondetect in the associated samples or detected greater than five times the blank level. No qualification of the VOC data resulted from the equipment blank contamination.

6. The VOC trip blank associated with the three groundwater samples in SDG E&E 0502001 contained low level detects of Chloroform, Acetone, and Methylene chloride. The associated groundwater samples were nondetect for the analytes present in the trip blank. No adverse affect to data quality or qualification resulted.

7. The VOC trip blank associated with the groundwater sample in SDG E&E 0502004 contained low level detects of Chloroform, Acetone, and Methylene chloride. The associated groundwater sample was nondetect for the analytes present in the trip blank. No adverse affect to data quality or qualification resulted.

8. The dissolved metals ICB associated with sample PBOW-05-GW-AA3-GW002-01A in SDG 0501263 contained a trace level beryllium detect that resulted in the sample result for beryllium being qualified as "U".

9. The total metals ICB associated with samples PBOW-05-GW-AA3-BEDGW001-01A and PBOW-05-GW-AA3-BEDMW19-01A in SDG 0501276 contained a trace level chromium detect that resulted in the both sample results for chromium being qualified as "U".

10. The total metals ICB associated with sample PBOW-05-GW-AA3-MKMW09-01A in SDG 0501276 contained a trace level zinc detect that resulted in the sample result for zinc being qualified as "U".

11. The dissolved metals ICB associated with sample PBOW-05-GW-AA3-MKMW09-01A in SDG 0501276 contained trace level chromium and zinc detects that resulted in the sample results for chromium and zinc being qualified as "U".

12. The total metals ICB associated with samples PBOW-05-GW-AA3-GW003-01A, PBOW-05-GW-AA3-GW003-01D, PBOW-05-GW-AA2-GW002-01A and PBOW-05-GW-AA3-BEDGW002-01A in SDG 0501293 contained a trace level chromium detect that resulted in

the sample results in all four samples for chromium being qualified as "U".

13. The dissolved metals ICB associated with samples PBOW-05-GW-AA3-GW003-01A, PBOW-05-GW-AA3-GW003-01D, PBOW-05-GW-AA2-GW002-01A and PBOW-05-GW-AA3-BEDGW002-01A in SDG 0501293 contained a trace level chromium detect that resulted in the sample results in all four samples for chromium being qualified as "U".

14. The total metals CCB associated with samples PBOW-05-GW-AA3-GW003-01A, PBOW-05-GW-AA3-GW003-01D, and PBOW-05-GW-AA2-GW002-01A in SDG 0501293 contained trace level iron and nickel detects that resulted in the sample results for the three samples being qualified as "U" for iron and nickel.

15. The dissolved metals CCB associated with samples PBOW-05-GW-AA2-GW002-01A in SDG 0501293 contained trace level cobalt and nickel detects that resulted in the sample results for the three samples being qualified as "U" cobalt and nickel.

16. The nitrate method blank associated with samples PBOW-05-GW-AA3-GW003-01A, PBOW-05-GW-AA3-GW003-01D, PBOW-05-GW-AA2-GW002-01A and PBOW-05-GW-AA3-BEDGW002-01A in SDG 0501293 contained a trace level nitrate detect that resulted in the sample results in all four samples for nitrate being qualified as "U".

17. The total metals ICB associated with samples PBOW-05-GW-AA3-GW005-01A and PBOW-05-GW-AA3-BEDGW001-01A in SDG 0501297 contained a trace level chromium detect that resulted in the sample results in both samples for chromium being qualified as "U".

18. The dissolved metals ICB associated with samples PBOW-05-GW-AA3-GW005-01A and PBOW-05-GW-AA3-BEDGW001-01A in SDG 0501297 contained a trace level chromium detect that resulted in the sample results in both samples for chromium being qualified as "U".

19. The total metals CCBs associated with samples PBOW-05-GW-AA3-GW005-01A in SDG 0501297 contained trace level nickel detects that resulted in the sample result for nickel being qualified as "U".

20. The dissolved metals CCBs associated with samples PBOW-05-GW-AA3-GW005-01A and PBOW-05-GW-AA3-BEDGW001-01A in SDG 0501297 contained trace level nickel and cobalt detects that resulted in the sample results for nickel and cobalt being qualified as "U".

21. The dissolved metals CCBs associated with samples PBOW-05-GW-AA3-GW005-01A in SDG 0501297 contained trace level potassium detect that resulted in the sample results for potassium being qualified as "U".

22. The total metals ICB associated with samples PBOW-05-GW-AA3-GW004-01A, PBOW-05-GW-AA3-BEDMW003-01A, and PBOW-05-GW-AA3- BEDMW003-01D in SDG 0502001 contained a trace level chromium detect that resulted in the sample results in the three samples for chromium being qualified as "U".

23. The total metals ICB associated with sample PBOW-05-GW-AA3-GW004-01A in SDG 0502001 contained a trace level nickel detect that resulted in the sample results for nickel being qualified as "U".

24. The dissolved metals ICB and CCB associated with sample PBOW-05-GW-AA3-GW004-01A in SDG 0502001 contained a trace level nickel detect that resulted in the sample result

for nickel being qualified as "U".

25. The dissolved metals ICB and CCB associated with sample PBOW-05-GW-AA3-BEDMW003-01A in SDG 0502001 contained a trace level beryllium detect that resulted in the sample result for beryllium being qualified as "U".

26. The dissolved metals ICB and CCB associated with sample PBOW-05-GW-AA3-BEDMW003-01D in SDG 0502001 contained a trace level chromium detect that resulted in the sample result for chromium being qualified as "U".

27. The dissolved metals CCB associated with sample PBOW-05-GW-AA3-BEDMW003-01A in SDG 0502001 contained a trace level mercury detect that resulted in the sample result for mercury being qualified as "U".

28. The nitrate method blank associated with sample PBOW-05-GW-AA3-GW004-01A in SDG 0502001contained a trace level nitrate detect that resulted in the sample result being qualified as "U".

29. The dissolved metals ICB associated with sample PBOW-05-GW-AA2-ITMW10-01A in SDG 0502002 contained a trace level nickel detect that resulted in the sample result for nickel being qualified as "U".

30. The total metals CCB associated with sample PBOW-05-GW- AA2-ITMW10-01A in SDG 0502002 contained a trace level mercury detect that resulted in the sample result for mercury being qualified as "U".

4.4 DATA SENSITIVITY

None of the samples included in this evaluation had high analyte concentrations and/or interferences forcing an initial sample dilution to be performed. Therefore, non-detect sample data are not impacted by a decrease in sensitivity and elevated detection limits that accompany diluted samples. The laboratory reported target analytes to the Method Detection Level (MDL) to achieve maximum sensitivity and to meet as many of the Region IX preliminary remediation goals and data quality objectives detailed in the project QAPP as possible. Analytes detected above the MDL but below the Method Reporting Limit (MRL) are "J" qualified to indicate the result is estimated and does have less certainty than a result greater than the MRL.

4.5 DATA COMPLETENESS

Evaluation of this data set resulted in the rejection of one SVOC analyte in all 17 samples, and one metals compound in 4 of the 17 samples. The SVOC analyte, benzoic acid, was qualified as "R" rejected because of low biased LCS recoveries for the analyte in all the LCS' associated with all 14 groundwater samples and all 4 field QC samples. The selenium results for 4 samples were rejected ("R") due to a low biased MS/MSD recovery. The completeness for all other analytes was found to be 100%.

ATTACHMENT 1

SAMPLE INFORMATION TABLES

Plum Brook Acid Areas 2 and 3 Round 1 Groundwater Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01A	N1	0501263-ecen	SW8260B
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01B	N1	0501263-ecen	SW6010B, SW7470A
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01C	N1	0501263-ecen	E130.2, SW6010B, SW7470A
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01D	N1	0501263-ecen	SW9012
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01E	N1	0501263-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01F	N1	0501263-ecen	SW9060
1/21/2005	16:45	AA3-GW-002	PBOW-05-GW-AA3-GW002-01A	0501263-01G	N1	0501263-ecen	SW8082, SW8270C, SW8330
1/21/2005	18:14	FIELDQC	PBOW-05-TB012105	0501263-02A	TB1	0501263-ecen	SW8260B
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01A	N1	0501276-ecen	SW8260B
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01B	N1	0501276-ecen	SW9060
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01C	N1	0501276-ecen	SW6010B, SW7470A
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01D	N1	0501276-ecen	E130.2, SW6010B, SW7470A
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01E	N1	0501276-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01F	N1	0501276-ecen	SW9012
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01G	N1	0501276-ecen	SW8270C
1/23/2005	11:50	AA3-BEDGW-001	PBOW-05-GW-AA3-BEDGW001-01A	0501276-01H	N1	0501276-ecen	SW8082, SW8330
1/23/2005	11:50	FIELDQC	PBOW-05-TB-012305-01	0501276-04A	TB1	0501276-ecen	SW8260B
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02A	N1	0501276-ecen	SW8260B
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02B	N1	0501276-ecen	SW9060
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02C	N1	0501276-ecen	SW6010B, SW7470A
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02D	N1	0501276-ecen	E130.2, SW6010B, SW7470A
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02E	N1	0501276-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02F	N1	0501276-ecen	SW9012
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02G	N1	0501276-ecen	SW8270C
1/24/2005	15:30	MK-MW09	PBOW-05-GW-AA2-MKMW09-01A	0501276-02H	N1	0501276-ecen	SW8082, SW8330
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03ADL	N1	0501276-ecen	SW8260B
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03A	N1	0501276-ecen	SW8260B
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03B	N1	0501276-ecen	SW9060
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03C	N1	0501276-ecen	SW6010B, SW7470A
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03D	N1	0501276-ecen	E130.2, SW6010B, SW7470A
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03E	N1	0501276-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03F	N1	0501276-ecen	SW9012
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03G	N1	0501276-ecen	SW8270C
1/24/2005	16:05	PB-BED-MW19	PBOW-05-GW-PB-BEDMW19-01A	0501276-03H	N1	0501276-ecen	SW8082, SW8330
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03A	N1	0501293-ecen	SW8260B
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03B	N1	0501293-ecen	SW8082, SW8270C, SW8330
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03C	N1	0501293-ecen	SW6010B, SW7470A
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03D	N1	0501293-ecen	E130.2, SW6010B, SW7470A
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03E	N1	0501293-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03F	N1	0501293-ecen	SW9012
1/25/2005	14:50	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-01A	0501293-03G	N1	0501293-ecen	SW9060
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01A	N1	0501293-ecen	SW8260B

Plum Brook Acid Areas 2 and 3 Round 1 Groundwater Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01B	N1	0501293-ecen	SW8082, SW8270C, SW8330
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01C	N1	0501293-ecen	SW6010B, SW7470A
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01D	N1	0501293-ecen	E130.2, SW6010B, SW7470A
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01E	N1	0501293-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01F	N1	0501293-ecen	SW9012
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01A	0501293-01G	N1	0501293-ecen	SW9060
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01D	0501293-02A	FD1	0501293-ecen	SW8260B
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01D	0501293-02B	FD1	0501293-ecen	SW8082, SW8270C, SW8330
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01D	0501293-02C	FD1	0501293-ecen	SW6010B, SW7470A
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01D	0501293-02D	FD1	0501293-ecen	E130.2, SW6010B, SW7470A
1/25/2005	15:40	AA3-GW-003	PBOW-05-GW-AA3-GW003-01D	0501293-02F	FD1	0501293-ecen	SW9012
1/25/2005	14:50	FIELDQC	PBOW-05-TB-012505-01	0501293-05A	TB1	0501293-ecen	SW8260B
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04A	N1	0501293-ecen	SW8260B
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04B	N1	0501293-ecen	SW8082, SW8270C, SW8330
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04C	N1	0501293-ecen	SW6010B, SW7470A
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04D	N1	0501293-ecen	E130.2, SW6010B, SW7470A
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04E	N1	0501293-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04F	N1	0501293-ecen	SW9012
1/26/2005	16:20	AA2-GW-002	PBOW-05-GW-AA2-GW002-01A	0501293-04G	N1	0501293-ecen	SW9060
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02A	N1	0501297-ecen	SW8260B
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02B	N1	0501297-ecen	SW9060
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02C	N1	0501297-ecen	SW8082, SW8270C, SW8330
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02D	N1	0501297-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02E	N1	0501297-ecen	SW9012
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02F	N1	0501297-ecen	E130.2, SW6010B, SW7470A
1/27/2005	12:50	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-01A	0501297-02G	N1	0501297-ecen	SW6010B, SW7470A
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01A	N1	0501297-ecen	SW8260B
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01B	N1	0501297-ecen	SW9060
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01C	N1	0501297-ecen	SW8082, SW8270C, SW8330
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01D	N1	0501297-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01E	N1	0501297-ecen	SW9012
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01F	N1	0501297-ecen	E130.2, SW6010B, SW7470A
1/27/2005	13:40	AA3-GW005	PBOW-05-GW-AA3-GW005-01A	0501297-01G	N1	0501297-ecen	SW6010B, SW7470A
1/27/2005	12:30	FIELDQC	PBOW-05-TB-012705-01	0501297-03A	TB1	0501297-ecen	SW8260B
1/28/2005	11:00	FIELDQC	PBOW-05-GW-AA2-BEDGW001-01C	0501303-01A	EB1	0501303-ecen	SW8082, SW8270C, SW8330
1/28/2005	11:00	FIELDQC	PBOW-05-GW-AA2-BEDGW001-01C	0501303-01B	EB1	0501303-ecen	SW6010B
1/28/2005	11:00	FIELDQC	PBOW-05-GW-AA2-BEDGW001-01C	0501303-01BRE	EB1	0501303-ecen	SW7470A
1/28/2005	11:00	FIELDQC	PBOW-05-GW-AA2-BEDGW001-01C	0501303-01C	EB1	0501303-ecen	SW9012
1/28/2005	11:00	FIELDQC	PBOW-05-GW-AA2-BEDMW001-01C	0502001-02A	EB1	0502001-ecen	SW8260B
1/28/2005	11:45	FIELDQC	PBOW-05-GW-AA3-GW005-01C	0501303-02A	EB1	0501303-ecen	SW8082, SW8270C, SW8330
1/28/2005	11:45	FIELDQC	PBOW-05-GW-AA3-GW005-01C	0501303-02B	EB1	0501303-ecen	SW6010B
1/28/2005	11:45	FIELDQC	PBOW-05-GW-AA3-GW005-01C	0501303-02BRE	EB1	0501303-ecen	SW7470A

Plum Brook Acid Areas 2 and 3 Round 1 Groundwater Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
1/28/2005	11:45	FIELDQC	PBOW-05-GW-AA3-GW005-01C	0501303-02C	EB1	0501303-ecen	SW9012
1/28/2005	11:45	FIELDQC	PBOW-05-GW-AA3-GW005-01C	0502001-03A	EB1	0502001-ecen	SW8260B
1/28/2005	16:27	FIELDQC	PBOW-05-TB-012805-01	0502001-01A	TB1	0502001-ecen	SW8260B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04ADL	N1	0502001-ecen	SW8260B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04A	N1	0502001-ecen	SW8260B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04B	N1	0502001-ecen	SW8082, SW8270C, SW8330
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04C	N1	0502001-ecen	SW6010B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04CRE	N1	0502001-ecen	SW7470A
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04D	N1	0502001-ecen	E130.2, SW6010B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04DRE	N1	0502001-ecen	SW7470A
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04E	N1	0502001-ecen	SW9012
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04F	N1	0502001-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01A	0502001-04G	N1	0502001-ecen	SW9060
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05ADL	FD1	0502001-ecen	SW8260B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05A	FD1	0502001-ecen	SW8260B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05B	FD1	0502001-ecen	SW8082, SW8270C, SW8330
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05C	FD1	0502001-ecen	SW6010B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05CRE	FD1	0502001-ecen	SW7470A
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05D	FD1	0502001-ecen	E130.2, SW6010B
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05DRE	FD1	0502001-ecen	SW7470A
1/30/2005	14:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDMW003-01D	0502001-05E	FD1	0502001-ecen	SW9012
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06A	N1	0502001-ecen	SW8260B
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06B	N1	0502001-ecen	SW8082, SW8270C, SW8330
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06C	N1	0502001-ecen	SW6010B
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06CRE	N1	0502001-ecen	SW7470A
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06D	N1	0502001-ecen	E130.2, SW6010B
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06DRE	N1	0502001-ecen	SW7470A
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06E	N1	0502001-ecen	SW9012
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06F	N1	0502001-ecen	E160.1, E160.2, E180.1, E300, E310.1
1/30/2005	13:40	AA3-GW-004	PBOW-05-GW-AA3-GW004-01A	0502001-06G	N1	0502001-ecen	SW9060
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01A	N1	0502002-ecen	SW9060
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01B	N1	0502002-ecen	SW8082, SW8270C, SW8330
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01C	N1	0502002-ecen	E130.2, SW6010B
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01CRE	N1	0502002-ecen	SW7470A
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01D	N1	0502002-ecen	SW6010B
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01DRE	N1	0502002-ecen	SW7470A
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01E	N1	0502002-ecen	SW9012
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502002-01F	N1	0502002-ecen	E160.1, E160.2, E180.1, E300, E310.1
2/1/2005	11:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-01A	0502004-01A	N1	0502004-ecen	SW8260B
2/2/2005	14:00	FIELDQC	PBOW-05-TB-020205-01	0502004-02A	TB1	0502004-ecen	SW8260B

ATTACHMENT 2

TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Qualifier Definitions:

=	result is greater than reporting limit;
TR	result is greater than detection limit, but less than reporting limit;
J	result is estimated;
BJ	result is estimated, compound detected in associated blank;
U	non-detect;
UJ	estimated non-detect;
R	result is rejected, data is unusable.

The value associated with the "ND/U" flag is the detection limit.

METHOD	ANALYTE	SAMP. NUM. / DATE / UNITS	PBOW-05-GW-AA2-BEDGW001-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-01A 1/26/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW001-01A 1/23/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW002-01A 1/25/2005 RESULT / QUAL
	Wet Chemistry					
E310.1	Alkalinity, Total (as CaCO3)	mg/L	590/=	250/=	730/=	320/=
E300	Chloride (as Cl)	mg/L	42.4/= /J	6.79/=	323/= /J	16.1/=
SW9012	Cyanide	mg/L	0.0070 ND/UJ	0.0070 ND/UJ	0.0268/= /J	0.0070 ND/UJ
E130.2	Hardness (as CACO3)	mg/L	669/=	589/=	737/=	480/=
E300	Nitrogen, Nitrate (as N)	mg/L	0.143/=	0.0760 TR/BJ	0.225/=	0.1300 =/B
E300	Sulfate (as SO4)	mg/L	6.41/= /J	131/=	1.21/=	7.15/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4.0 ND/U	4.0 ND/U	4.0 ND/U	4.0 ND/U
E160.1	Total Dissolved Solids	mg/L	680/=	480/=	1300/=	380/=
SW9060	Total Organic Carbon	mg/L	1.49/=	2.66/=	2.72/=	1.88/=
E180.1	Turbidity		30.6/=	1.64/=	41.8/=	1.64/=
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.0480 ND/U	0.0471 ND/U	0.0475 ND/U	0.0471 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.0651 ND/U	0.0639 ND/U	0.0645 ND/U	0.0639 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.139 ND/U	0.137 ND/U	0.138 ND/U	0.137 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.104 ND/U	0.102 ND/U	0.103 ND/U	0.102 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.195 ND/U	0.192 ND/U	0.193 ND/U	0.192 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.102 ND/UJ	0.100 ND/UJ	0.101 ND/UJ	0.100 ND/UJ
SW8330	2-Nitrotoluene	ug/L	0.200 ND/U	0.196 ND/U	0.198 ND/U	0.196 ND/U
SW8330	3-Nitrotoluene	ug/L	0.368 ND/U	0.361 ND/U	0.365 ND/U	0.361 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.208 ND/U	0.204 ND/U	0.206 ND/U	0.204 ND/U
SW8330	4-Nitrotoluene	ug/L	0.181 ND/U	0.177 ND/U	0.179 ND/U	0.177 ND/U
SW8330	HMX	ug/L	0.0683 ND/U	0.0670 ND/U	0.0676 ND/U	0.0670 ND/U
SW8330	Nitrobenzene	ug/L	0.108 ND/U	0.106 ND/U	0.107 ND/U	0.106 ND/U
SW8330	RDX	ug/L	0.0838 ND/U	0.0822 ND/U	0.0830 ND/U	0.0822 ND/U
SW8330	Tetryl	ug/L	0.205 ND/U	0.201 ND/UJ	0.203 ND/UJ	0.201 ND/UJ
	Metals					
SW6010B	Aluminum	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Aluminum (total)	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Antimony	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Antimony (total)	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Arsenic	ug/L	7.04/TR/J	4.59 ND/U	4.59 ND/U	4.59 ND/U
SW6010B	Arsenic (total)	ug/L	7.95/TR/J	4.59 ND/U	4.59 ND/U	4.59 ND/U
SW6010B	Barium	ug/L	280/=	25.2/=	76.2/=	187/=
SW6010B	Barium (total)	ug/L	275/=	25.9/=	74.4/=	194/=
SW6010B	Beryllium	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW6010B	Beryllium (total)	ug/L	0.109 ND/U	0.156/TR/J	0.109 ND/U	0.109 ND/U
SW6010B	Cadmium	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Cadmium (total)	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Calcium	ug/L	88800/=	106000/=	109000/=	57500/=
SW6010B	Calcium (total)	ug/L	85100/=	109000/=	108000/=	59000/=
SW6010B	Chromium	ug/L	0.236 ND/U	0.652 TR/BJ	0.236 ND/U	0.309 TR/BJ
SW6010B	Chromium (total)	ug/L	0.994 TR/BJ	0.770/TR/BJ	1.10 TR/BJ	0.295 TR/BJ
SW6010B	Cobalt	ug/L	2.05 TR/BJ	1.85 TR/BJ	1.13/TR/J	0.898 ND/U

Plum Brook Acid Areas 2 and 3
Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. / DATE / UNITS	PBOW-05-GW-AA2-BEDGW001-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-01A 1/26/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW001-01A 1/23/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW002-01A 1/25/2005 RESULT / QUAL
SW6010B	Cobalt (total)	ug/L	1.21/TR/J	1.53/TR/J	0.898 ND/U	0.898 ND/U
SW6010B	Copper	ug/L	2.55 ND/U	4.09/TR/J	2.55 ND/U	2.55 ND/U
SW6010B	Copper (total)	ug/L	2.55 ND/U	3.10/TR/J	2.55 ND/U	2.55 ND/U
SW6010B	Iron	ug/L	131/TR/J	29.8/TR/J	22.9 ND/U	22.9 ND/U
SW6010B	Iron (total)	ug/L	913/=	49.8 TR/BJ	22.9 ND/U	22.9 ND/U
SW6010B	Lead	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Lead (total)	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Magnesium	ug/L	53500/=	31600/=	68700/=	30400/=
SW6010B	Magnesium (total)	ug/L	50600/=	32400/=	67800/=	31500/=
SW6010B	Manganese	ug/L	93.8/=	0.419 ND/U	13.4/=	12.9/=
SW6010B	Manganese (total)	ug/L	90.6/=	0.419 ND/U	11.8/=	13.3/=
SW7470A	Mercury	ug/L	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U
SW7470A	Mercury (total)	ug/L	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U
SW6010B	Nickel	ug/L	1.60 TR/BJ	0.816 TR/BJ	0.745 ND/U	0.745 ND/U
SW6010B	Nickel (total)	ug/L	0.745 ND/U	0.950 TR/BJ	0.745 ND/U	0.745 ND/U
SW6010B	Potassium	ug/L	26900/=	175 ND/U	37100/=	11100/=
SW6010B	Potassium (total)	ug/L	25800/=	277/TR/J	36200/=	11400/=
SW6010B	Selenium	ug/L	11.1 ND/UJ	11.1 ND/UJ	11.1 ND/UJ	11.1 ND/UJ
SW6010B	Selenium (total)	ug/L	11.1 ND/UJ	11.1 ND/UJ	11.1 ND/UJ	11.1 ND/UJ
SW6010B	Silver	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Silver (total)	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Sodium	ug/L	90200/=	13900/=	260000/=	41600/=
SW6010B	Sodium (total)	ug/L	91600/=	14700/=	260000/=	43600/=
SW6010B	Thallium	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Thallium (total)	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Vanadium	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Vanadium (total)	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Zinc	ug/L	1.46 ND/U	20.4/=	1.46 ND/U	1.46 ND/U
SW6010B	Zinc (total)	ug/L	19.1/TR/J	22.8/=	1.46 ND/U	1.46 ND/U
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.635 ND/U	0.629 ND/U	0.629 ND/U	0.635 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	1.89 ND/U	1.87 ND/U	1.87 ND/U	1.89 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.919 ND/U	0.910 ND/U	0.910 ND/U	0.919 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	1.40 ND/U	1.38 ND/U	1.38 ND/U	1.40 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	1.88 ND/U	1.86 ND/U	1.86 ND/U	1.88 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.281 ND/U	0.279 ND/U	0.279 ND/U	0.281 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.285 ND/U	0.282 ND/U	0.282 ND/U	0.285 ND/U
	Semivolatile Organic Compounds					
SW8270C	1,2,4-Trichlorobenzene	ug/L	1.74 ND/U	1.72 ND/U	1.72 ND/U	1.74 ND/U
SW8270C	1,2-Dichlorobenzene	ug/L	1.82 ND/U	1.80 ND/U	1.80 ND/U	1.82 ND/U
SW8270C	1,3-Dichlorobenzene	ug/L	1.63 ND/U	1.62 ND/U	1.62 ND/U	1.63 ND/U
SW8270C	1,4-Dichlorobenzene	ug/L	1.79 ND/U	1.78 ND/U	1.78 ND/U	1.79 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/L	5.39 ND/U	5.34 ND/U	5.34 ND/U	5.39 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/L	4.61 ND/U	4.57 ND/U	4.57 ND/U	4.61 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-01A 1/26/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW001-01A 1/23/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW002-01A 1/25/2005 RESULT / QUAL
SW8270C	2,4-Dichlorophenol	ug/L	4.42 ND/U	4.38 ND/U	4.38 ND/U	4.42 ND/U
SW8270C	2,4-Dimethylphenol	ug/L	4.48 ND/UJ	4.44 ND/UJ	4.44 ND/UJ	4.48 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/L	4.64 ND/U	4.60 ND/U	4.60 ND/U	4.64 ND/U
SW8270C	2,4-Dinitrotoluene	ug/L	2.44 ND/U	2.42 ND/U	2.42 ND/U	2.44 ND/U
SW8270C	2,6-Dinitrotoluene	ug/L	2.28 ND/U	2.26 ND/U	2.26 ND/U	2.28 ND/U
SW8270C	2-Chloronaphthalene	ug/L	2.82 ND/U	2.79 ND/U	2.79 ND/U	2.82 ND/U
SW8270C	2-Chlorophenol	ug/L	4.38 ND/U	4.34 ND/U	4.34 ND/U	4.38 ND/U
SW8270C	2-Methylnaphthalene	ug/L	2.08 ND/U	2.06 ND/U	2.06 ND/U	2.08 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/L	4.18 ND/U	4.14 ND/U	4.14 ND/U	4.18 ND/U
SW8270C	2-Nitroaniline	ug/L	3.06 ND/U	3.03 ND/U	3.03 ND/U	3.06 ND/U
SW8270C	2-Nitrophenol	ug/L	4.05 ND/U	4.01 ND/U	4.01 ND/U	4.05 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/L	7.25 ND/U	7.19 ND/U	7.19 ND/U	7.25 ND/U
SW8270C	3-Nitroaniline	ug/L	3.10 ND/U	3.07 ND/U	3.07 ND/U	3.10 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/L	4.91 ND/U	4.86 ND/U	4.86 ND/U	4.91 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/L	3.16 ND/U	3.13 ND/U	3.13 ND/U	3.16 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/L	4.49 ND/U	4.45 ND/U	4.45 ND/U	4.49 ND/U
SW8270C	4-Chloroaniline	ug/L	2.64 ND/UJ	2.62 ND/UJ	2.62 ND/U	2.64 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/L	3.37 ND/U	3.34 ND/U	3.34 ND/U	3.37 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/L	4.52 ND/U	4.48 ND/U	4.48 ND/U	4.52 ND/U
SW8270C	4-Nitroaniline	ug/L	3.31 ND/U	3.28 ND/U	3.28 ND/U	3.31 ND/U
SW8270C	4-Nitrophenol	ug/L	4.57 ND/U	4.52 ND/U	4.52 ND/U	4.57 ND/U
SW8270C	Acenaphthene	ug/L	0.665 ND/U	0.659 ND/U	0.659 ND/U	0.665 ND/U
SW8270C	Acenaphthylene	ug/L	0.592 ND/U	0.587 ND/U	0.587 ND/U	0.592 ND/U
SW8270C	Acetophenone	ug/L	2.23 ND/U	2.21 ND/U	2.21 ND/U	2.23 ND/U
SW8270C	Anthracene	ug/L	0.663 ND/U	0.657 ND/U	0.657 ND/U	0.663 ND/U
SW8270C	Atrazine	ug/L	2.33 ND/U	2.31 ND/U	2.31 ND/U	2.33 ND/U
SW8270C	Benzaldehyde	ug/L	2.36 ND/U	2.34 ND/U	2.34 ND/U	2.36 ND/U
SW8270C	Benzo(a)anthracene	ug/L	0.816 ND/U	0.808 ND/U	0.808 ND/U	0.816 ND/U
SW8270C	Benzo(a)pyrene	ug/L	0.730 ND/U	0.723 ND/U	0.723 ND/U	0.730 ND/U
SW8270C	Benzo(b)fluoranthene	ug/L	0.796 ND/U	0.789 ND/U	0.789 ND/U	0.796 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/L	0.671 ND/U	0.664 ND/U	0.664 ND/U	0.671 ND/U
SW8270C	Benzo(k)fluoranthene	ug/L	0.701 ND/U	0.694 ND/U	0.694 ND/U	0.701 ND/U
SW8270C	Benzoic acid	ug/L	ND/R	ND/R	ND/R	ND/R
SW8270C	Benzyl alcohol	ug/L	2.65 ND/U	2.63 ND/U	2.63 ND/U	2.65 ND/U
SW8270C	Benzyl butyl phthalate	ug/L	2.91 ND/U	2.88 ND/U	2.88 ND/U	2.91 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/L	2.17 ND/U	2.15 ND/U	2.15 ND/U	2.17 ND/U
SW8270C	Caprolactam	ug/L	2.46 ND/U	2.44 ND/U	2.44 ND/U	2.46 ND/U
SW8270C	Carbazole	ug/L	2.25 ND/U	2.23 ND/U	2.23 ND/U	2.25 ND/U
SW8270C	Chrysene	ug/L	0.808 ND/U	0.801 ND/U	0.801 ND/U	0.808 ND/U
SW8270C	Di-n-butylphthalate	ug/L	3.23 ND/U	3.20 ND/U	3.20 ND/U	3.23 ND/U
SW8270C	Di-n-octylphthalate	ug/L	2.68 ND/U	2.65 ND/U	2.65 ND/U	2.68 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/L	0.717 ND/U	0.710 ND/U	0.710 ND/U	0.717 ND/U
SW8270C	Dibenzofuran	ug/L	2.34 ND/U	2.32 ND/U	2.32 ND/U	2.34 ND/U
SW8270C	Diethylphthalate	ug/L	2.39 ND/U	2.36 ND/U	2.36 ND/U	2.39 ND/U

METHOD	ANALYTE	SAMP. NUM. / DATE / UNITS	PBOW-05-GW-AA2-BEDGW001-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-01A 1/26/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW001-01A 1/23/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW002-01A 1/25/2005 RESULT / QUAL
SW8270C	Dimethylphthalate	ug/L	3.19 ND/U	3.16 ND/U	3.16 ND/U	3.19 ND/U
SW8270C	Fluoranthene	ug/L	0.760 ND/U	0.753 ND/U	0.753 ND/U	0.760 ND/U
SW8270C	Fluorene	ug/L	0.754 ND/U	0.747 ND/U	0.747 ND/U	0.754 ND/U
SW8270C	Hexachlorobenzene	ug/L	2.51 ND/U	2.49 ND/U	2.49 ND/U	2.51 ND/U
SW8270C	Hexachlorobutadiene	ug/L	1.95 ND/U	1.93 ND/U	1.93 ND/U	1.95 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/L	1.58 ND/UJ	1.56 ND/UJ	1.56 ND/UJ	1.58 ND/UJ
SW8270C	Hexachloroethane	ug/L	1.40 ND/U	1.38 ND/U	1.38 ND/U	1.40 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/L	0.755 ND/U	0.748 ND/U	0.748 ND/U	0.755 ND/U
SW8270C	Isophorone	ug/L	2.07 ND/U	2.05 ND/U	2.05 ND/U	2.07 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/L	3.16 ND/U	3.13 ND/U	3.13 ND/U	3.16 ND/U
SW8270C	N-Nitrosodimethylamine	ug/L	3.08 ND/U	3.06 ND/U	3.06 ND/U	3.08 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/L	3.44 ND/U	3.41 ND/U	3.41 ND/U	3.44 ND/U
SW8270C	Naphthalene	ug/L	1.09/TR/J	0.540 ND/U	0.540 ND/U	0.545 ND/U
SW8270C	Nitrobenzene	ug/L	2.08 ND/U	2.07 ND/U	2.07 ND/U	2.08 ND/U
SW8270C	Pentachlorophenol	ug/L	5.42 ND/UJ	5.36 ND/UJ	5.36 ND/UJ	5.42 ND/UJ
SW8270C	Phenanthrene	ug/L	0.691 ND/U	0.684 ND/U	0.684 ND/U	0.691 ND/U
SW8270C	Phenol	ug/L	4.31 ND/U	4.27 ND/U	4.27 ND/U	4.31 ND/U
SW8270C	Pyrene	ug/L	0.730 ND/U	0.723 ND/U	0.723 ND/U	0.730 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/L	2.67 ND/U	2.64 ND/U	2.64 ND/U	2.67 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	2.46 ND/U	2.44 ND/U	2.44 ND/U	2.46 ND/U
SW8270C	bis(2-Chloroisopropyl)ether	ug/L	3.19 ND/U	3.16 ND/U	3.16 ND/U	3.19 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/L	3.52 ND/U	3.49 ND/U	3.49 ND/U	3.52 ND/U
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U	0.123 ND/U	0.123 ND/U	0.123 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U	0.171 ND/U	0.171 ND/U	0.171 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U	0.139 ND/U	0.139 ND/U	0.139 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U	0.117 ND/U	0.117 ND/U	0.117 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U	0.137 ND/U	0.137 ND/U	0.137 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/UJ	0.118 ND/UJ	0.118 ND/U	0.118 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U	0.373 ND/U	0.373 ND/U	0.373 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U	0.815 ND/U	0.815 ND/U	0.815 ND/U
SW8260B	2-Hexanone	ug/L	0.187 ND/U	0.187 ND/U	0.187 ND/U	0.187 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone	ug/L	0.393 ND/U	0.393 ND/U	0.393 ND/U	0.393 ND/U
SW8260B	Acetone	ug/L	1.73 ND/U	1.73 ND/UJ	1.73 ND/U	1.73 ND/UJ
SW8260B	Benzene	ug/L	0.439/TR/J	0.117/TR/J	0.763/TR/J	5.06/=
SW8260B	Bromochloromethane	ug/L	0.159 ND/U	0.159 ND/U	0.159 ND/U	0.159 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-01A 1/26/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW001-01A 1/23/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW002-01A 1/25/2005 RESULT / QUAL
SW8260B	Bromodichloromethane	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Bromoform	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	Bromomethane	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Carbon Disulfide	ug/L	0.257/TR/J	0.118 ND/U	0.118 ND/U	0.661/TR/J
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U	0.111 ND/U	0.111 ND/U	0.111 ND/U
SW8260B	Chlorobenzene	ug/L	0.115 ND/U	0.115 ND/U	0.115 ND/U	0.115 ND/U
SW8260B	Chloroethane	ug/L	0.121 ND/U	0.121 ND/U	0.121 ND/U	0.121 ND/U
SW8260B	Chloroform	ug/L	0.120 ND/U	0.120 ND/U	0.120 ND/U	0.304 ND/U
SW8260B	Chloromethane	ug/L	0.142 ND/U	0.142 ND/U	0.142 ND/U	11.4/=
SW8260B	Cyclohexane	ug/L	24.2/=	14.8/=	16.7/=	39.8/=
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U	0.304 ND/U	0.304 ND/U	0.304 TR/JB
SW8260B	Ethylbenzene	ug/L	1.48/=	0.680/TR/J	0.353/TR/J	1.58/=
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.737/TR/J	0.325/TR/J	0.101 ND/U	0.423/TR/J
SW8260B	Methyl Acetate	ug/L	0.387 ND/U	0.387 ND/UJ	0.387 ND/U	0.387 ND/UJ
SW8260B	Methylcyclohexane	ug/L	14.5/=	10.2/=	7.16/=	30.9/=
SW8260B	Methylene Chloride	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	Styrene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Toluene	ug/L	0.192/TR/J	0.119 ND/U	1.28/=	3.24/=
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U	0.163 ND/U	0.163 ND/U	0.163 ND/U
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U	0.185 ND/U	0.185 ND/U	0.185 ND/U
SW8260B	Vinyl chloride	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Xylenes, Total	ug/L	17.9/=	11.9/=	2.56/=	12.1/=
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U	0.112 ND/U	0.112 ND/U	0.112 ND/U

Plum Brook Acid Areas 2 and 3
Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDMW003-01A 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01D 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW002-01A 1/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW003-01A 1/25/2005 RESULT / QUAL
	Wet Chemistry					
E310.1	Alkalinity, Total (as CaCO3)	mg/L	470/=		370/=	340/=
E300	Chloride (as Cl)	mg/L	160/= /J		2.08/=	78.6/=
SW9012	Cyanide	mg/L	0.0086/TR/J	0.0070 ND/U	0.0070 ND/UJ	0.0070 ND/UJ
E130.2	Hardness (as CACO3)	mg/L	503/=	623/=	646/=	880/=
E300	Nitrogen, Nitrate (as N)	mg/L	0.413/= /J		0.0760/TR/J	0.1300 =/B
E300	Sulfate (as SO4)	mg/L	23.6/=		45.5/=	253/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4.0 ND/UJ		4.0 ND/U	4.0 ND/U
E160.1	Total Dissolved Solids	mg/L	820/=		400/=	850/=
SW9060	Total Organic Carbon	mg/L	1.46/=		2.61/=	1.25/=
E180.1	Turbidity		56.1/=		0.393 ND/UJ	2.26/=
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.0484 ND/U	0.0480 ND/U	0.0480 ND/U	0.0475 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.0657 ND/U	0.0651 ND/U	0.0651 ND/U	0.0645 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.141 ND/U	0.139 ND/U	0.139 ND/U	0.138 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.105 ND/U	0.104 ND/U	0.104 ND/U	0.103 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.197 ND/U	0.195 ND/U	0.195 ND/U	0.193 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.103 ND/UJ	0.102 ND/UJ	0.102 ND/UJ	0.101 ND/UJ
SW8330	2-Nitrotoluene	ug/L	0.202 ND/U	0.200 ND/U	0.200 ND/U	0.198 ND/U
SW8330	3-Nitrotoluene	ug/L	0.372 ND/U	0.368 ND/U	0.368 ND/U	0.365 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.210 ND/U	0.208 ND/U	0.208 ND/U	0.206 ND/U
SW8330	4-Nitrotoluene	ug/L	0.183 ND/U	0.181 ND/U	0.181 ND/U	0.179 ND/U
SW8330	HMX	ug/L	0.0689 ND/U	0.0683 ND/U	0.0683 ND/U	0.0676 ND/U
SW8330	Nitrobenzene	ug/L	0.109 ND/U	0.108 ND/U	0.108 ND/U	0.107 ND/U
SW8330	RDX	ug/L	0.0846 ND/U	0.0838 ND/U	0.0838 ND/U	0.0830 ND/U
SW8330	Tetryl	ug/L	0.207 ND/U	0.205 ND/U	0.205 ND/UJ	0.203 ND/UJ
	Metals					
SW6010B	Aluminum	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Aluminum (total)	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Antimony	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Antimony (total)	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Arsenic	ug/L	4.59 ND/U	4.59 ND/U	4.59 ND/U	4.59 ND/U
SW6010B	Arsenic (total)	ug/L	4.59 ND/U	5.08/TR/J	4.59 ND/U	4.59 ND/U
SW6010B	Barium	ug/L	806/=	837/=	53.4/=	89.8/=
SW6010B	Barium (total)	ug/L	825/=	844/=	56.4/=	92.9/=
SW6010B	Beryllium	ug/L	0.152 TR/BJ	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW6010B	Beryllium (total)	ug/L	0.109 ND/U	0.109 ND/U	0.154 TR/BJ	0.109 ND/U
SW6010B	Cadmium	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Cadmium (total)	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Calcium	ug/L	76300/=	75400/=	115000/=	164000/=
SW6010B	Calcium (total)	ug/L	73200/=	75800/=	119000/=	165000/=
SW6010B	Chromium	ug/L	0.236 ND/U	0.452 TR/BJ	0.236 ND/U	0.409 TR/BJ
SW6010B	Chromium (total)	ug/L	1.21 TR/BJ	0.728 TR/BJ	0.695/TR/J	0.663 TR/BJ
SW6010B	Cobalt	ug/L	0.898 ND/U	0.898 ND/U	1.44/TR/J	2.79/TR/J

METHOD	ANALYTE	SAMP. NUM.	PBOW-05-GW-AA3-BEDMW003-01A	PBOW-05-GW-AA3-BEDMW003-01D	PBOW-05-GW-AA3-GW002-01A	PBOW-05-GW-AA3-GW003-01A
		DATE	1/30/2005	1/30/2005	1/21/2005	1/25/2005
		UNITS	RESULT / QUAL	RESULT / QUAL	RESULT / QUAL	RESULT / QUAL
SW6010B	Cobalt (total)	ug/L	0.898 ND/U	0.898 ND/U	1.66/TR/J	2.60/TR/J
SW6010B	Copper	ug/L	2.55 ND/U	4.00/TR/J	2.55 ND/U	2.55 ND/U
SW6010B	Copper (total)	ug/L	2.55 ND/U	2.55 ND/U	2.55 ND/U	2.55 ND/U
SW6010B	Iron	ug/L	22.9 ND/U	22.9 ND/U	22.9 ND/U	39.9/TR/J
SW6010B	Iron (total)	ug/L	58.4/TR/J	55.7/TR/J	22.9 ND/U	114 TR/BJ
SW6010B	Lead	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Lead (total)	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Magnesium	ug/L	44600/=	44400/=	25400/=	54700/=
SW6010B	Magnesium (total)	ug/L	43200/=	44200/=	26100/=	55200/=
SW6010B	Manganese	ug/L	41.9/=	43.5/=	0.567/TR/J	295/=
SW6010B	Manganese (total)	ug/L	41.1/=	42.3/=	0.419 ND/U	324/=
SW7470A	Mercury	ug/L	0.145 TR/BJ	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U
SW7470A	Mercury (total)	ug/L	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U
SW6010B	Nickel	ug/L	0.745 ND/U	0.745 ND/U	0.745 ND/U	3.06/TR/J
SW6010B	Nickel (total)	ug/L	0.745 ND/U	0.745 ND/U	0.745 ND/U	3.12 TR/BJ
SW6010B	Potassium	ug/L	28600/=	28500/=	470/TR/J	1040/TR/J
SW6010B	Potassium (total)	ug/L	27900/=	28600/=	469/TR/J	1220/TR/J
SW6010B	Selenium	ug/L	ND/R	ND/R	11.1 ND/UJ	11.1 ND/UJ
SW6010B	Selenium (total)	ug/L	ND/R	ND/R	11.1 ND/UJ	11.1 ND/UJ
SW6010B	Silver	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Silver (total)	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Sodium	ug/L	194000/= /J	191000/= /J	6290/=	36000/=
SW6010B	Sodium (total)	ug/L	187000/= /J	192000/= /J	6480/=	36300/=
SW6010B	Thallium	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Thallium (total)	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Vanadium	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Vanadium (total)	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Zinc	ug/L	1.46 ND/U	1.46 ND/U	17.1/TR/J	13.8/TR/J
SW6010B	Zinc (total)	ug/L	11.8/TR/J	9.56/TR/J	15.1/TR/J	14.8/TR/J
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	3.17 ND/U	0.641 ND/U	0.635 ND/U	0.629 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	9.43 ND/U	1.90 ND/U	1.89 ND/U	1.87 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	4.59 ND/U	0.928 ND/U	0.919 ND/U	0.910 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	6.98 ND/U	1.41 ND/U	1.40 ND/U	1.38 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	9.39 ND/U	1.90 ND/U	1.88 ND/U	1.86 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	1.41 ND/U	0.284 ND/U	0.281 ND/U	0.279 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	1.42 ND/U	0.288 ND/U	0.285 ND/U	0.282 ND/U
	Semivolatile Organic Compounds					
SW8270C	1,2,4-Trichlorobenzene	ug/L	1.74 ND/U	1.72 ND/U	1.74 ND/U	1.74 ND/U
SW8270C	1,2-Dichlorobenzene	ug/L	1.82 ND/U	1.80 ND/U	1.82 ND/U	1.82 ND/U
SW8270C	1,3-Dichlorobenzene	ug/L	1.63 ND/U	1.62 ND/U	1.63 ND/U	1.63 ND/U
SW8270C	1,4-Dichlorobenzene	ug/L	1.79 ND/U	1.78 ND/U	1.79 ND/U	1.79 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/L	5.39 ND/U	5.34 ND/U	5.39 ND/U	5.39 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/L	4.61 ND/U	4.57 ND/U	4.61 ND/U	4.61 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDMW003-01A 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01D 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW002-01A 1/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW003-01A 1/25/2005 RESULT / QUAL
SW8270C	2,4-Dichlorophenol	ug/L	4.42 ND/U	4.38 ND/U	4.42 ND/U	4.42 ND/U
SW8270C	2,4-Dimethylphenol	ug/L	4.48 ND/UJ	4.44 ND/UJ	4.48 ND/UJ	4.48 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/L	4.64 ND/U	4.60 ND/U	4.64 ND/U	4.64 ND/U
SW8270C	2,4-Dinitrotoluene	ug/L	2.44 ND/U	2.42 ND/U	2.44 ND/U	2.44 ND/U
SW8270C	2,6-Dinitrotoluene	ug/L	2.28 ND/U	2.26 ND/U	2.28 ND/U	2.28 ND/U
SW8270C	2-Chloronaphthalene	ug/L	2.82 ND/U	2.79 ND/U	2.82 ND/U	2.82 ND/U
SW8270C	2-Chlorophenol	ug/L	4.38 ND/U	4.34 ND/U	4.38 ND/U	4.38 ND/U
SW8270C	2-Methylnaphthalene	ug/L	5.47/TR/J	4.92/TR/J	2.08 ND/U	2.08 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/L	4.18 ND/U	4.14 ND/U	4.18 ND/U	4.18 ND/U
SW8270C	2-Nitroaniline	ug/L	3.06 ND/U	3.03 ND/U	3.06 ND/U	3.06 ND/U
SW8270C	2-Nitrophenol	ug/L	4.05 ND/U	4.01 ND/U	4.05 ND/U	4.05 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/L	7.25 ND/U	7.19 ND/U	7.25 ND/U	7.25 ND/U
SW8270C	3-Nitroaniline	ug/L	3.10 ND/U	3.07 ND/U	3.10 ND/U	3.10 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/L	4.91 ND/U	4.86 ND/U	4.91 ND/U	4.91 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/L	3.16 ND/U	3.13 ND/U	3.16 ND/U	3.16 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/L	4.49 ND/U	4.45 ND/U	4.49 ND/U	4.49 ND/U
SW8270C	4-Chloroaniline	ug/L	2.64 ND/U	2.62 ND/U	2.64 ND/U	2.64 ND/UJ
SW8270C	4-Chlorophenyl phenyl ether	ug/L	3.37 ND/U	3.34 ND/U	3.37 ND/U	3.37 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/L	4.52 ND/U	4.48 ND/U	4.52 ND/U	4.52 ND/U
SW8270C	4-Nitroaniline	ug/L	3.31 ND/U	3.28 ND/U	3.31 ND/U	3.31 ND/U
SW8270C	4-Nitrophenol	ug/L	4.57 ND/U	4.52 ND/U	4.57 ND/U	4.57 ND/U
SW8270C	Acenaphthene	ug/L	0.665 ND/U	0.659 ND/U	0.665 ND/U	0.665 ND/U
SW8270C	Acenaphthylene	ug/L	0.592 ND/U	0.587 ND/U	0.592 ND/U	0.592 ND/U
SW8270C	Acetophenone	ug/L	2.23 ND/U	2.21 ND/U	2.23 ND/U	2.23 ND/U
SW8270C	Anthracene	ug/L	0.663 ND/U	0.657 ND/U	0.663 ND/U	0.663 ND/U
SW8270C	Atrazine	ug/L	2.33 ND/U	2.31 ND/U	2.33 ND/U	2.33 ND/U
SW8270C	Benzaldehyde	ug/L	2.36 ND/U	2.34 ND/U	2.36 ND/U	2.36 ND/U
SW8270C	Benzo(a)anthracene	ug/L	0.816 ND/U	0.808 ND/U	0.816 ND/U	0.816 ND/U
SW8270C	Benzo(a)pyrene	ug/L	0.730 ND/U	0.723 ND/U	0.730 ND/U	0.730 ND/U
SW8270C	Benzo(b)fluoranthene	ug/L	0.796 ND/U	0.789 ND/U	0.796 ND/U	0.796 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/L	0.671 ND/U	0.664 ND/U	0.671 ND/U	0.671 ND/U
SW8270C	Benzo(k)fluoranthene	ug/L	0.701 ND/U	0.694 ND/U	0.701 ND/U	0.701 ND/U
SW8270C	Benzoic acid	ug/L	ND/R	ND/R	ND/R	ND/R
SW8270C	Benzyl alcohol	ug/L	2.65 ND/U	2.63 ND/U	2.65 ND/U	2.65 ND/U
SW8270C	Benzyl butyl phthalate	ug/L	2.91 ND/U	2.88 ND/U	2.91 ND/U	2.91 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/L	2.17 ND/U	2.15 ND/U	2.17 ND/U	2.17 ND/U
SW8270C	Caprolactam	ug/L	2.46 ND/U	2.44 ND/U	2.46 ND/U	2.46 ND/U
SW8270C	Carbazole	ug/L	2.25 ND/U	2.23 ND/U	2.25 ND/U	2.25 ND/U
SW8270C	Chrysene	ug/L	0.808 ND/U	0.801 ND/U	0.808 ND/U	0.808 ND/U
SW8270C	Di-n-butylphthalate	ug/L	3.23 ND/U	3.20 ND/U	3.23 ND/U	3.23 ND/U
SW8270C	Di-n-octylphthalate	ug/L	2.68 ND/U	2.65 ND/U	2.68 ND/U	2.68 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/L	0.717 ND/U	0.710 ND/U	0.717 ND/U	0.717 ND/U
SW8270C	Dibenzofuran	ug/L	2.34 ND/U	2.32 ND/U	2.34 ND/U	2.34 ND/U
SW8270C	Diethylphthalate	ug/L	2.39 ND/U	2.36 ND/U	2.39 ND/U	2.39 ND/U

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SW8270C	Dimethylphthalate	ug/L	3.19 ND/U	3.16 ND/U	3.19 ND/U	3.19 ND/U
SW8270C	Fluoranthene	ug/L	0.760 ND/U	0.753 ND/U	0.760 ND/U	0.760 ND/U
SW8270C	Fluorene	ug/L	0.754 ND/U	0.747 ND/U	0.754 ND/U	0.754 ND/U
SW8270C	Hexachlorobenzene	ug/L	2.51 ND/U	2.49 ND/U	2.51 ND/U	2.51 ND/U
SW8270C	Hexachlorobutadiene	ug/L	1.95 ND/U	1.93 ND/U	1.95 ND/U	1.95 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/L	1.58 ND/UJ	1.56 ND/UJ	1.58 ND/UJ	1.58 ND/UJ
SW8270C	Hexachloroethane	ug/L	1.40 ND/U	1.38 ND/U	1.40 ND/U	1.40 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/L	0.755 ND/U	0.748 ND/U	0.755 ND/U	0.755 ND/U
SW8270C	Isophorone	ug/L	2.07 ND/U	2.05 ND/U	2.07 ND/U	2.07 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/L	3.16 ND/U	3.13 ND/U	3.16 ND/U	3.16 ND/U
SW8270C	N-Nitrosodimethylamine	ug/L	3.08 ND/U	3.06 ND/U	3.08 ND/U	3.08 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/L	3.44 ND/U	3.41 ND/U	3.44 ND/U	3.44 ND/U
SW8270C	Naphthalene	ug/L	5.53/TR/J	4.66/TR/J	0.545 ND/U	0.545 ND/U
SW8270C	Nitrobenzene	ug/L	2.08 ND/U	2.07 ND/U	2.08 ND/U	2.08 ND/U
SW8270C	Pentachlorophenol	ug/L	5.42 ND/U	5.36 ND/U	5.42 ND/UJ	5.42 ND/UJ
SW8270C	Phenanthrene	ug/L	0.691 ND/U	0.684 ND/U	0.691 ND/U	0.691 ND/U
SW8270C	Phenol	ug/L	4.31 ND/U	4.27 ND/U	4.31 ND/U	4.31 ND/U
SW8270C	Pyrene	ug/L	0.730 ND/U	0.723 ND/U	0.730 ND/U	0.730 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/L	2.67 ND/U	2.64 ND/U	2.67 ND/U	2.67 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	2.46 ND/U	2.44 ND/U	2.46 ND/U	2.46 ND/U
SW8270C	bis(2-Chloroisopropyl)ether	ug/L	3.19 ND/U	3.16 ND/U	3.19 ND/U	3.19 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/L	3.52 ND/U	3.49 ND/U	3.52 ND/U	3.52 ND/U
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U	0.123 ND/U	0.123 ND/U	0.123 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U	0.171 ND/U	0.171 ND/U	0.171 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U	0.139 ND/U	0.139 ND/U	0.139 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U	0.117 ND/U	0.117 ND/U	0.117 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U	0.137 ND/U	0.137 ND/U	0.137 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U	0.373 ND/U	0.373 ND/U	0.373 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U	0.815 ND/U	0.815 ND/U	0.815 ND/U
SW8260B	2-Hexanone	ug/L	0.187 ND/U	0.187 ND/U	0.187 ND/U	0.187 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone	ug/L	0.393 ND/U	0.393 ND/U	0.393 ND/U	0.393 ND/U
SW8260B	Acetone	ug/L	1.73 ND/U	1.73 ND/U	1.73 ND/U	1.73 ND/UJ
SW8260B	Benzene	ug/L	41.8/=	41.4/=	0.104 ND/U	0.104 ND/U
SW8260B	Bromochloromethane	ug/L	0.159 ND/U	0.159 ND/U	0.159 ND/U	0.159 ND/U

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SW8260B	Bromodichloromethane	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Bromoform	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	Bromomethane	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Carbon Disulfide	ug/L	0.606/TR/J	0.619/TR/J	0.118 ND/U	0.118 ND/U
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U	0.111 ND/U	0.111 ND/U	0.111 ND/U
SW8260B	Chlorobenzene	ug/L	0.115 ND/U	0.115 ND/U	0.115 ND/U	0.115 ND/U
SW8260B	Chloroethane	ug/L	0.121 ND/U	0.121 ND/U	0.121 ND/U	0.121 ND/U
SW8260B	Chloroform	ug/L	0.120 ND/U	0.120 ND/U	0.120 ND/U	0.120 ND/U
SW8260B	Chloromethane	ug/L	0.142 ND/U	0.142 ND/U	0.142 ND/U	0.142 ND/U
SW8260B	Cyclohexane	ug/L	96.0/=	93.5/=	0.0999 ND/U	0.0999 ND/U
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U	0.304 ND/U	0.304 ND/U	0.304 ND/U
SW8260B	Ethylbenzene	ug/L	15.5/=	15.3/=	0.164 ND/U	0.164 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L	4.64/=	4.65/=	0.101 ND/U	0.101 ND/U
SW8260B	Methyl Acetate	ug/L	0.387 ND/U	0.387 ND/U	0.387 ND/U	0.387 ND/UJ
SW8260B	Methylcyclohexane	ug/L	55.9/=	54.4/=	0.107 ND/U	0.107 ND/U
SW8260B	Methylene Chloride	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	Styrene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Toluene	ug/L	27.4/=	26.9/=	0.119 ND/U	0.119 ND/U
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U	0.163 ND/U	0.163 ND/U	0.163 ND/U
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U	0.185 ND/U	0.185 ND/U	0.185 ND/U
SW8260B	Vinyl chloride	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Xylenes, Total	ug/L	128/=	127/=	0.307 ND/U	0.307 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U	0.112 ND/U	0.112 ND/U	0.112 ND/U

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	Wet Chemistry					
E310.1	Alkalinity, Total (as CaCO3)	mg/L		560/=	330/=	370/=
E300	Chloride (as Cl)	mg/L		6.21/=	3.73/= /J	7.74/= /J
SW9012	Cyanide	mg/L	0.0070 ND/UJ	0.0070 ND/U	0.0070 ND/UJ	0.0070 ND/U
E130.2	Hardness (as CACO3)	mg/L	851/=	680/=	731/=	1110/=
E300	Nitrogen, Nitrate (as N)	mg/L		0.181 =/B	0.0149 ND/U	0.0710/TR/J
E300	Sulfate (as SO4)	mg/L		38.4/= /J	157/= /J	308/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L		4.0 ND/UJ	4.0 ND/U	4.0 ND/UJ
E160.1	Total Dissolved Solids	mg/L		410/=	550/=	900/=
SW9060	Total Organic Carbon	mg/L		2.29/=	1.37/=	2.68/=
E180.1	Turbidity			0.393 ND/U	3.76/=	6.63/=
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.0475 ND/U	0.0480 ND/U	0.0475 ND/U	0.0489 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.0645 ND/U	0.0651 ND/U	0.0645 ND/U	0.0664 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.138 ND/U	0.139 ND/U	0.138 ND/U	0.142 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.103 ND/U	0.104 ND/U	0.103 ND/U	0.106 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.193 ND/U	0.195 ND/U	0.193 ND/U	0.199 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.101 ND/UJ	0.102 ND/UJ	0.101 ND/UJ	0.104 ND/UJ
SW8330	2-Nitrotoluene	ug/L	0.198 ND/U	0.200 ND/U	0.198 ND/U	0.204 ND/U
SW8330	3-Nitrotoluene	ug/L	0.365 ND/U	0.368 ND/U	0.365 ND/U	0.375 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.206 ND/U	0.208 ND/U	0.206 ND/U	0.212 ND/U
SW8330	4-Nitrotoluene	ug/L	0.179 ND/U	0.181 ND/U	0.179 ND/U	0.184 ND/U
SW8330	HMX	ug/L	0.0676 ND/U	0.0683 ND/U	0.0676 ND/U	0.0696 ND/U
SW8330	Nitrobenzene	ug/L	0.107 ND/U	0.108 ND/U	0.107 ND/U	0.110 ND/U
SW8330	RDX	ug/L	0.0830 ND/U	0.0838 ND/U	0.0830 ND/U	0.0854 ND/U
SW8330	Tetryl	ug/L	0.203 ND/UJ	0.205 ND/U	0.203 ND/U	0.209 ND/U
	Metals					
SW6010B	Aluminum	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Aluminum (total)	ug/L	45.4 ND/U	45.4 ND/U	45.4 ND/U	45.4 ND/U
SW6010B	Antimony	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Antimony (total)	ug/L	8.16 ND/U	8.16 ND/U	8.16 ND/U	8.16 ND/U
SW6010B	Arsenic	ug/L	4.59 ND/U	4.59 ND/U	12.5/TR/J	4.59 ND/U
SW6010B	Arsenic (total)	ug/L	4.59 ND/U	4.59 ND/U	12.1/TR/J	4.59 ND/U
SW6010B	Barium	ug/L	90.2/=	198/=	108/=	48.4/=
SW6010B	Barium (total)	ug/L	92.9/=	206/=	113/=	40.5/=
SW6010B	Beryllium	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW6010B	Beryllium (total)	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW6010B	Cadmium	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Cadmium (total)	ug/L	0.713 ND/U	0.713 ND/U	0.713 ND/U	0.713 ND/U
SW6010B	Calcium	ug/L	166000/=	89600/=	111000/=	176000/=
SW6010B	Calcium (total)	ug/L	167000/=	88800/=	115000/=	184000/=
SW6010B	Chromium	ug/L	0.250 TR/BJ	0.236 ND/U	0.969 TR/BJ	0.236 ND/U
SW6010B	Chromium (total)	ug/L	0.626 TR/BJ	0.924 TR/BJ	0.960 TR/BJ	0.236 ND/U
SW6010B	Cobalt	ug/L	2.40/TR/J	1.03/TR/J	1.89 TR/BJ	0.898 ND/U

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SW6010B	Cobalt (total)	ug/L	2.63/TR/J	0.898 ND/U	1.75/TR/J	1.62/TR/J
SW6010B	Copper	ug/L	2.55 ND/U	2.55 ND/U	44.2/=	2.55 ND/U
SW6010B	Copper (total)	ug/L	6.93/TR/J	2.55 ND/U	2.55 ND/U	2.55 ND/U
SW6010B	Iron	ug/L	38.8/TR/J	22.9 ND/U	64.9/TR/J	22.9 ND/U
SW6010B	Iron (total)	ug/L	106 TR/BJ	22.9 ND/U	165/TR/J	834/=
SW6010B	Lead	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Lead (total)	ug/L	2.44 ND/U	2.44 ND/U	2.44 ND/U	2.44 ND/U
SW6010B	Magnesium	ug/L	55200/=	37800/=	42400/=	69900/=
SW6010B	Magnesium (total)	ug/L	55800/=	37700/=	44500/=	73700/=
SW6010B	Manganese	ug/L	296/=	47.8/=	74.3/=	49.0/=
SW6010B	Manganese (total)	ug/L	320/=	51.3/=	75.4/=	103/=
SW7470A	Mercury	ug/L	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U
SW7470A	Mercury (total)	ug/L	0.0584 ND/U	0.0584 ND/U	0.0584 ND/U	0.124 TR/BJ
SW6010B	Nickel	ug/L	3.08/TR/J	1.73 TR/BJ	1.48 TR/BJ	3.84 TR/BJ
SW6010B	Nickel (total)	ug/L	3.29 TR/BJ	1.48 TR/BJ	1.54 TR/BJ	4.15/TR/J
SW6010B	Potassium	ug/L	1130/TR/J	2330/=	1310 TR/BJ	2110/=
SW6010B	Potassium (total)	ug/L	1170/TR/J	2410/=	1480/TR/J	2290/=
SW6010B	Selenium	ug/L	11.1 ND/UJ	ND/R	11.1 ND/UJ	ND/R
SW6010B	Selenium (total)	ug/L	11.1 ND/UJ	ND/R	11.1 ND/UJ	ND/R
SW6010B	Silver	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Silver (total)	ug/L	1.30 ND/U	1.30 ND/U	1.30 ND/U	1.30 ND/U
SW6010B	Sodium	ug/L	35900/=	24600/= /J	11600/=	21500/= /J
SW6010B	Sodium (total)	ug/L	36600/=	24800/= /J	12500/=	20700/= /J
SW6010B	Thallium	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Thallium (total)	ug/L	14.1 ND/U	14.1 ND/U	14.1 ND/U	14.1 ND/U
SW6010B	Vanadium	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Vanadium (total)	ug/L	2.14 ND/U	2.14 ND/U	2.14 ND/U	2.14 ND/U
SW6010B	Zinc	ug/L	13.0/TR/J	52.9/=	109/=	1.46 ND/U
SW6010B	Zinc (total)	ug/L	19.5/TR/J	58.3/=	82.8/=	1.46 ND/U
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.647 ND/U	0.635 ND/UJ	0.635 ND/U	0.653 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	1.92 ND/U	1.89 ND/UJ	1.89 ND/U	1.94 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.937 ND/U	0.919 ND/UJ	0.919 ND/U	0.946 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	1.42 ND/U	1.40 ND/UJ	1.40 ND/U	1.44 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	1.91 ND/U	1.88 ND/UJ	1.88 ND/U	1.93 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.287 ND/U	0.281 ND/UJ	0.281 ND/U	0.289 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.290 ND/U	0.285 ND/UJ	0.285 ND/U	0.293 ND/U
	Semivolatile Organic Compounds					
SW8270C	1,2,4-Trichlorobenzene	ug/L	1.74 ND/U	1.79 ND/U	1.72 ND/U	1.77 ND/U
SW8270C	1,2-Dichlorobenzene	ug/L	1.82 ND/U	1.87 ND/U	1.80 ND/U	1.86 ND/U
SW8270C	1,3-Dichlorobenzene	ug/L	1.63 ND/U	1.68 ND/U	1.62 ND/U	1.66 ND/U
SW8270C	1,4-Dichlorobenzene	ug/L	1.79 ND/U	1.84 ND/U	1.78 ND/U	1.83 ND/U
SW8270C	2,4,5-Trichlorophenol	ug/L	5.39 ND/U	5.54 ND/U	5.34 ND/U	5.49 ND/U
SW8270C	2,4,6-Trichlorophenol	ug/L	4.61 ND/U	4.75 ND/U	4.57 ND/U	4.70 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-01D 1/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-01A 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-ITMW10-01A 2/1/2005 RESULT / QUAL
SW8270C	2,4-Dichlorophenol	ug/L	4.42 ND/U	4.55 ND/U	4.38 ND/U	4.51 ND/U
SW8270C	2,4-Dimethylphenol	ug/L	4.48 ND/UJ	4.61 ND/UJ	4.44 ND/UJ	4.57 ND/UJ
SW8270C	2,4-Dinitrophenol	ug/L	4.64 ND/U	4.78 ND/U	4.60 ND/U	4.73 ND/U
SW8270C	2,4-Dinitrotoluene	ug/L	2.44 ND/U	2.51 ND/U	2.42 ND/U	2.49 ND/U
SW8270C	2,6-Dinitrotoluene	ug/L	2.28 ND/U	2.35 ND/U	2.26 ND/U	2.33 ND/U
SW8270C	2-Chloronaphthalene	ug/L	2.82 ND/U	2.90 ND/U	2.79 ND/U	2.88 ND/U
SW8270C	2-Chlorophenol	ug/L	4.38 ND/U	4.50 ND/U	4.34 ND/U	4.46 ND/U
SW8270C	2-Methylnaphthalene	ug/L	2.08 ND/U	2.14 ND/U	2.06 ND/U	2.12 ND/U
SW8270C	2-Methylphenol (o-Cresol)	ug/L	4.18 ND/U	4.30 ND/U	4.14 ND/U	4.26 ND/U
SW8270C	2-Nitroaniline	ug/L	3.06 ND/U	3.15 ND/U	3.03 ND/U	3.12 ND/U
SW8270C	2-Nitrophenol	ug/L	4.05 ND/U	4.17 ND/U	4.01 ND/U	4.13 ND/U
SW8270C	3,3'-Dichlorobenzidine	ug/L	7.25 ND/U	7.47 ND/U	7.19 ND/U	7.39 ND/U
SW8270C	3-Nitroaniline	ug/L	3.10 ND/U	3.19 ND/U	3.07 ND/U	3.16 ND/U
SW8270C	4,6-Dinitro-2-methylphenol	ug/L	4.91 ND/U	5.05 ND/U	4.86 ND/U	5.00 ND/U
SW8270C	4-Bromophenyl phenyl ether	ug/L	3.16 ND/U	3.25 ND/U	3.13 ND/U	3.22 ND/U
SW8270C	4-Chloro-3-methylphenol	ug/L	4.49 ND/U	4.62 ND/U	4.45 ND/U	4.58 ND/U
SW8270C	4-Chloroaniline	ug/L	2.64 ND/UJ	2.72 ND/U	2.62 ND/UJ	2.69 ND/U
SW8270C	4-Chlorophenyl phenyl ether	ug/L	3.37 ND/U	3.47 ND/U	3.34 ND/U	3.43 ND/U
SW8270C	4-Methylphenol (p-Cresol)	ug/L	4.52 ND/U	4.65 ND/U	4.48 ND/U	4.61 ND/U
SW8270C	4-Nitroaniline	ug/L	3.31 ND/U	3.41 ND/U	3.28 ND/U	3.38 ND/U
SW8270C	4-Nitrophenol	ug/L	4.57 ND/U	4.70 ND/U	4.52 ND/U	4.65 ND/U
SW8270C	Acenaphthene	ug/L	0.665 ND/U	0.684 ND/U	0.659 ND/U	0.678 ND/U
SW8270C	Acenaphthylene	ug/L	0.592 ND/U	0.610 ND/U	0.587 ND/U	0.604 ND/U
SW8270C	Acetophenone	ug/L	2.23 ND/U	2.29 ND/U	2.21 ND/U	2.27 ND/U
SW8270C	Anthracene	ug/L	0.663 ND/U	0.683 ND/U	0.657 ND/U	0.676 ND/U
SW8270C	Atrazine	ug/L	2.33 ND/U	2.40 ND/U	2.31 ND/U	2.38 ND/U
SW8270C	Benzaldehyde	ug/L	2.36 ND/U	2.43 ND/U	2.34 ND/U	2.40 ND/U
SW8270C	Benzo(a)anthracene	ug/L	0.816 ND/U	0.840 ND/U	0.808 ND/U	0.832 ND/U
SW8270C	Benzo(a)pyrene	ug/L	0.730 ND/U	0.751 ND/U	0.723 ND/U	0.744 ND/U
SW8270C	Benzo(b)fluoranthene	ug/L	0.796 ND/U	0.819 ND/U	0.789 ND/U	0.812 ND/U
SW8270C	Benzo(g,h,i)perylene	ug/L	0.671 ND/U	0.690 ND/U	0.664 ND/U	0.684 ND/U
SW8270C	Benzo(k)fluoranthene	ug/L	0.701 ND/U	0.721 ND/U	0.694 ND/U	0.714 ND/U
SW8270C	Benzoic acid	ug/L	ND/R	ND/R	ND/R	ND/R
SW8270C	Benzyl alcohol	ug/L	2.65 ND/U	2.73 ND/U	2.63 ND/U	2.70 ND/U
SW8270C	Benzyl butyl phthalate	ug/L	2.91 ND/U	2.99 ND/U	2.88 ND/U	2.96 ND/U
SW8270C	Biphenyl (Diphenyl)	ug/L	2.17 ND/U	2.23 ND/U	2.15 ND/U	2.21 ND/U
SW8270C	Caprolactam	ug/L	2.46 ND/U	2.53 ND/U	2.44 ND/U	2.51 ND/U
SW8270C	Carbazole	ug/L	2.25 ND/U	2.32 ND/U	2.23 ND/U	2.30 ND/U
SW8270C	Chrysene	ug/L	0.808 ND/U	0.832 ND/U	0.801 ND/U	0.824 ND/U
SW8270C	Di-n-butylphthalate	ug/L	3.23 ND/U	3.32 ND/U	3.20 ND/U	3.29 ND/U
SW8270C	Di-n-octylphthalate	ug/L	2.68 ND/U	2.76 ND/U	2.65 ND/U	2.73 ND/U
SW8270C	Dibenz(a,h)anthracene	ug/L	0.717 ND/U	0.738 ND/U	0.710 ND/U	0.731 ND/U
SW8270C	Dibenzofuran	ug/L	2.34 ND/U	2.41 ND/U	2.32 ND/U	2.38 ND/U
SW8270C	Diethylphthalate	ug/L	2.39 ND/U	2.46 ND/U	2.36 ND/U	2.43 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-01D 1/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-01A 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-ITMW10-01A 2/1/2005 RESULT / QUAL
SW8270C	Dimethylphthalate	ug/L	3.19 ND/U	3.28 ND/U	3.16 ND/U	3.25 ND/U
SW8270C	Fluoranthene	ug/L	0.760 ND/U	0.783 ND/U	0.753 ND/U	0.775 ND/U
SW8270C	Fluorene	ug/L	0.754 ND/U	0.776 ND/U	0.747 ND/U	0.768 ND/U
SW8270C	Hexachlorobenzene	ug/L	2.51 ND/U	2.58 ND/U	2.49 ND/U	2.56 ND/U
SW8270C	Hexachlorobutadiene	ug/L	1.95 ND/U	2.01 ND/U	1.93 ND/U	1.99 ND/U
SW8270C	Hexachlorocyclopentadiene	ug/L	1.58 ND/UJ	1.62 ND/UJ	1.56 ND/UJ	1.61 ND/UJ
SW8270C	Hexachloroethane	ug/L	1.40 ND/U	1.44 ND/U	1.38 ND/U	1.42 ND/U
SW8270C	Indeno(1,2,3-cd)pyrene	ug/L	0.755 ND/U	0.777 ND/U	0.748 ND/U	0.769 ND/U
SW8270C	Isophorone	ug/L	2.07 ND/U	2.13 ND/U	2.05 ND/U	2.11 ND/U
SW8270C	N-Nitroso-di-n-propylamine	ug/L	3.16 ND/U	3.25 ND/U	3.13 ND/U	3.22 ND/U
SW8270C	N-Nitrosodimethylamine	ug/L	3.08 ND/U	3.17 ND/U	3.06 ND/U	3.14 ND/U
SW8270C	N-Nitrosodiphenylamine	ug/L	3.44 ND/U	3.54 ND/U	3.41 ND/U	3.51 ND/U
SW8270C	Naphthalene	ug/L	0.545 ND/U	0.561 ND/U	0.540 ND/U	0.556 ND/U
SW8270C	Nitrobenzene	ug/L	2.08 ND/U	2.15 ND/U	2.07 ND/U	2.13 ND/U
SW8270C	Pentachlorophenol	ug/L	5.42 ND/UJ	5.57 ND/U	5.36 ND/UJ	5.52 ND/U
SW8270C	Phenanthrene	ug/L	0.691 ND/U	0.711 ND/U	0.684 ND/U	0.704 ND/U
SW8270C	Phenol	ug/L	4.31 ND/U	4.44 ND/U	4.27 ND/U	4.39 ND/U
SW8270C	Pyrene	ug/L	0.730 ND/U	0.751 ND/U	0.723 ND/U	0.744 ND/U
SW8270C	bis(2-Chloroethoxy)methane	ug/L	2.67 ND/U	2.75 ND/U	2.64 ND/U	2.72 ND/U
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	2.46 ND/U	2.53 ND/U	2.44 ND/U	2.51 ND/U
SW8270C	bis(2-Chloroisopropyl)ether	ug/L	3.19 ND/U	3.28 ND/U	3.16 ND/U	3.25 ND/U
SW8270C	bis(2-Ethylhexyl)phthalate	ug/L	3.52 ND/U	3.62 ND/U	3.49 ND/U	3.59 ND/U
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U	0.123 ND/U	0.123 ND/U	0.123 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U	0.171 ND/U	0.171 ND/U	0.171 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U	0.139 ND/U	0.139 ND/U	0.139 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U	0.117 ND/U	0.117 ND/U	0.117 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U	0.137 ND/U	0.137 ND/U	0.137 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/UJ	0.118 ND/U	0.118 ND/UJ	0.118 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U	0.373 ND/U	0.373 ND/U	0.373 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U	0.815 ND/U	0.815 ND/U	0.815 ND/U
SW8260B	2-Hexanone	ug/L	0.187 ND/U	0.187 ND/U	0.187 ND/U	0.187 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone	ug/L	0.393 ND/U	0.393 ND/U	0.393 ND/U	0.393 ND/U
SW8260B	Acetone	ug/L	1.73 ND/UJ	1.73 ND/U	2.65 TR/JB	1.73 ND/U
SW8260B	Benzene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	Bromochloromethane	ug/L	0.159 ND/U	0.159 ND/U	0.159 ND/U	0.159 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-01D 1/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-01A 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01A 1/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-ITMW10-01A 2/1/2005 RESULT / QUAL
SW8260B	Bromodichloromethane	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Bromoform	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/UJ
SW8260B	Bromomethane	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Carbon Disulfide	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U	0.111 ND/U	0.111 ND/U	0.111 ND/U
SW8260B	Chlorobenzene	ug/L	0.115 ND/U	0.115 ND/U	0.115 ND/U	0.115 ND/U
SW8260B	Chloroethane	ug/L	0.121 ND/U	0.121 ND/U	0.121 ND/U	0.121 ND/U
SW8260B	Chloroform	ug/L	0.120 ND/U	0.120 ND/U	0.120 ND/U	0.120 ND/U
SW8260B	Chloromethane	ug/L	0.142 ND/U	0.142 ND/U	0.142 ND/U	0.142 ND/U
SW8260B	Cyclohexane	ug/L	0.0999 ND/U	0.0999 ND/U	0.0999 ND/U	0.0999 ND/U
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U	0.304 ND/U	0.304 ND/U	0.304 ND/U
SW8260B	Ethylbenzene	ug/L	0.164 ND/U	0.164 ND/U	0.164 ND/U	0.164 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Methyl Acetate	ug/L	0.387 ND/UJ	0.387 ND/U	0.387 ND/U	0.387 ND/U
SW8260B	Methylcyclohexane	ug/L	0.107 ND/U	0.107 ND/U	0.107 ND/U	0.107 ND/U
SW8260B	Methylene Chloride	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	Styrene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Toluene	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U	0.163 ND/U	0.163 ND/U	0.163 ND/U
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U	0.185 ND/U	0.185 ND/U	0.185 ND/U
SW8260B	Vinyl chloride	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Xylenes, Total	ug/L	0.307 ND/U	0.307 ND/U	0.307 ND/U	0.307 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U	0.112 ND/U	0.112 ND/U	0.112 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-MKMW09-01A 1/24/2005 RESULT / QUAL	PBOW-05-GW-PB-BEDMW19-01A 1/24/2005 RESULT / QUAL		
	Wet Chemistry					
E310.1	Alkalinity, Total (as CaCO3)	mg/L	230/=	690/=		
E300	Chloride (as Cl)	mg/L	6.69/= /J	177/=		
SW9012	Cyanide	mg/L	0.0070 ND/UJ	0.109/= /J		
E130.2	Hardness (as CACO3)	mg/L	474/=	846/=		
E300	Nitrogen, Nitrate (as N)	mg/L	3.98/=	0.264/=		
E300	Sulfate (as SO4)	mg/L	30.0/=	3.75/= /J		
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4.0 ND/U	5.0/=		
E160.1	Total Dissolved Solids	mg/L	300/=	1000/=		
SW9060	Total Organic Carbon	mg/L	1.87/=	5.24/=		
E180.1	Turbidity		0.393 ND/U	34.4/=		
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.0494 ND/U	0.0480 ND/UJ		
SW8330	1,3-Dinitrobenzene	ug/L	0.0670 ND/U	0.0651 ND/UJ		
SW8330	2,4,6-Trinitrotoluene	ug/L	0.144 ND/U	0.139 ND/UJ		
SW8330	2,4-Dinitrotoluene	ug/L	0.107 ND/U	0.104 ND/UJ		
SW8330	2,6-Dinitrotoluene	ug/L	0.201 ND/U	0.195 ND/UJ		
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.105 ND/UJ	0.102 ND/UJ		
SW8330	2-Nitrotoluene	ug/L	0.206 ND/U	0.200 ND/UJ		
SW8330	3-Nitrotoluene	ug/L	0.379 ND/U	0.368 ND/UJ		
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.214 ND/U	0.208 ND/UJ		
SW8330	4-Nitrotoluene	ug/L	0.186 ND/U	0.181 ND/UJ		
SW8330	HMX	ug/L	0.0703 ND/U	0.0683 ND/UJ		
SW8330	Nitrobenzene	ug/L	0.111 ND/U	0.108 ND/UJ		
SW8330	RDX	ug/L	0.0862 ND/U	0.0838 ND/UJ		
SW8330	Tetryl	ug/L	0.211 ND/UJ	0.205 ND/UJ		
	Metals					
SW6010B	Aluminum	ug/L	45.4 ND/U	45.4 ND/U		
SW6010B	Aluminum (total)	ug/L	45.4 ND/U	45.4 ND/U		
SW6010B	Antimony	ug/L	8.16 ND/U	8.16 ND/U		
SW6010B	Antimony (total)	ug/L	8.16 ND/U	8.16 ND/U		
SW6010B	Arsenic	ug/L	4.59 ND/U	4.59 ND/U		
SW6010B	Arsenic (total)	ug/L	4.59 ND/U	4.59 ND/U		
SW6010B	Barium	ug/L	27.6/=	1570/=		
SW6010B	Barium (total)	ug/L	29.0/=	1640/=		
SW6010B	Beryllium	ug/L	0.109 ND/U	0.109 ND/U		
SW6010B	Beryllium (total)	ug/L	0.109 ND/U	0.109 ND/U		
SW6010B	Cadmium	ug/L	0.713 ND/U	0.713 ND/U		
SW6010B	Cadmium (total)	ug/L	0.713 ND/U	0.713 ND/U		
SW6010B	Calcium	ug/L	74700/=	150000/=		
SW6010B	Calcium (total)	ug/L	75700/=	148000/=		
SW6010B	Chromium	ug/L	0.789 TR/BJ	0.236 ND/U		
SW6010B	Chromium (total)	ug/L	0.236 ND/U	0.556 TR/BJ		
SW6010B	Cobalt	ug/L	1.29/TR/J	1.27/TR/J		

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-MKMW09-01A 1/24/2005 RESULT / QUAL	PBOW-05-GW-PB-BEDMW19-01A 1/24/2005 RESULT / QUAL		
SW6010B	Cobalt (total)	ug/L	1.17/TR/J	0.898 ND/U		
SW6010B	Copper	ug/L	2.55 ND/U	2.55 ND/U		
SW6010B	Copper (total)	ug/L	2.55 ND/U	2.55 ND/U		
SW6010B	Iron	ug/L	22.9 ND/U	22.9 ND/U		
SW6010B	Iron (total)	ug/L	22.9 ND/U	22.9 ND/U		
SW6010B	Lead	ug/L	2.44 ND/U	2.44 ND/U		
SW6010B	Lead (total)	ug/L	2.44 ND/U	2.44 ND/U		
SW6010B	Magnesium	ug/L	20400/=	72500/=		
SW6010B	Magnesium (total)	ug/L	20700/=	71300/=		
SW6010B	Manganese	ug/L	0.700/TR/J	10.2/=		
SW6010B	Manganese (total)	ug/L	0.419 ND/U	8.49/TR/J		
SW7470A	Mercury	ug/L	0.0584 ND/U	0.0584 ND/U		
SW7470A	Mercury (total)	ug/L	0.0584 ND/U	0.0584 ND/U		
SW6010B	Nickel	ug/L	0.745 ND/U	0.745 ND/U		
SW6010B	Nickel (total)	ug/L	0.745 ND/U	0.745 ND/U		
SW6010B	Potassium	ug/L	719/TR/J	26000/=		
SW6010B	Potassium (total)	ug/L	704/TR/J	25400/=		
SW6010B	Selenium	ug/L	11.1 ND/UJ	11.1 ND/UJ		
SW6010B	Selenium (total)	ug/L	11.1 ND/UJ	11.1 ND/UJ		
SW6010B	Silver	ug/L	1.30 ND/U	1.30 ND/U		
SW6010B	Silver (total)	ug/L	1.30 ND/U	1.30 ND/U		
SW6010B	Sodium	ug/L	3140/=	118000/=		
SW6010B	Sodium (total)	ug/L	3190/= /J	118000/= /J		
SW6010B	Thallium	ug/L	14.1 ND/U	14.1 ND/U		
SW6010B	Thallium (total)	ug/L	14.1 ND/U	14.1 ND/U		
SW6010B	Vanadium	ug/L	2.14 ND/U	2.14 ND/U		
SW6010B	Vanadium (total)	ug/L	2.14 ND/U	2.14 ND/U		
SW6010B	Zinc	ug/L	5.30 TR/BJ	1.46 ND/U		
SW6010B	Zinc (total)	ug/L	4.85 TR/BJ	1.46 ND/U		
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.653 ND/U	0.629 ND/U		
SW8082	PCB-1221 (Aroclor 1221)	ug/L	1.94 ND/U	1.87 ND/U		
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.946 ND/U	0.910 ND/U		
SW8082	PCB-1242 (Aroclor 1242)	ug/L	1.44 ND/U	1.38 ND/U		
SW8082	PCB-1248 (Aroclor 1248)	ug/L	1.93 ND/U	1.86 ND/U		
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.289 ND/U	0.279 ND/U		
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.293 ND/U	0.282 ND/U		
	Semivolatile Organic Compounds					
SW8270C	1,2,4-Trichlorobenzene	ug/L	1.72 ND/U	1.72 ND/U		
SW8270C	1,2-Dichlorobenzene	ug/L	1.80 ND/U	1.80 ND/U		
SW8270C	1,3-Dichlorobenzene	ug/L	1.62 ND/U	1.62 ND/U		
SW8270C	1,4-Dichlorobenzene	ug/L	1.78 ND/U	1.78 ND/U		
SW8270C	2,4,5-Trichlorophenol	ug/L	5.34 ND/U	5.34 ND/U		
SW8270C	2,4,6-Trichlorophenol	ug/L	4.57 ND/U	4.57 ND/U		

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-MKMW09-01A 1/24/2005 RESULT / QUAL	PBOW-05-GW-PB-BEDMW19-01A 1/24/2005 RESULT / QUAL		
SW8270C	2,4-Dichlorophenol	ug/L	4.38 ND/U	4.38 ND/U		
SW8270C	2,4-Dimethylphenol	ug/L	4.44 ND/UJ	4.44 ND/UJ		
SW8270C	2,4-Dinitrophenol	ug/L	4.60 ND/U	4.60 ND/U		
SW8270C	2,4-Dinitrotoluene	ug/L	2.42 ND/U	2.42 ND/U		
SW8270C	2,6-Dinitrotoluene	ug/L	2.26 ND/U	2.26 ND/U		
SW8270C	2-Chloronaphthalene	ug/L	2.79 ND/U	2.79 ND/U		
SW8270C	2-Chlorophenol	ug/L	4.34 ND/U	4.34 ND/U		
SW8270C	2-Methylnaphthalene	ug/L	2.06 ND/U	2.08/TR/J		
SW8270C	2-Methylphenol (o-Cresol)	ug/L	4.14 ND/U	4.14 ND/U		
SW8270C	2-Nitroaniline	ug/L	3.03 ND/U	3.03 ND/U		
SW8270C	2-Nitrophenol	ug/L	4.01 ND/U	4.01 ND/U		
SW8270C	3,3'-Dichlorobenzidine	ug/L	7.19 ND/U	7.19 ND/U		
SW8270C	3-Nitroaniline	ug/L	3.07 ND/U	3.07 ND/U		
SW8270C	4,6-Dinitro-2-methylphenol	ug/L	4.86 ND/U	4.86 ND/U		
SW8270C	4-Bromophenyl phenyl ether	ug/L	3.13 ND/U	3.13 ND/U		
SW8270C	4-Chloro-3-methylphenol	ug/L	4.45 ND/U	4.45 ND/U		
SW8270C	4-Chloroaniline	ug/L	2.62 ND/U	2.62 ND/U		
SW8270C	4-Chlorophenyl phenyl ether	ug/L	3.34 ND/U	3.34 ND/U		
SW8270C	4-Methylphenol (p-Cresol)	ug/L	4.48 ND/U	4.48 ND/U		
SW8270C	4-Nitroaniline	ug/L	3.28 ND/U	3.28 ND/U		
SW8270C	4-Nitrophenol	ug/L	4.52 ND/U	4.52 ND/U		
SW8270C	Acenaphthene	ug/L	0.659 ND/U	0.659 ND/U		
SW8270C	Acenaphthylene	ug/L	0.587 ND/U	0.587 ND/U		
SW8270C	Acetophenone	ug/L	2.21 ND/U	2.21 ND/U		
SW8270C	Anthracene	ug/L	0.657 ND/U	0.657 ND/U		
SW8270C	Atrazine	ug/L	2.31 ND/U	2.31 ND/U		
SW8270C	Benzaldehyde	ug/L	2.34 ND/U	2.34 ND/U		
SW8270C	Benzo(a)anthracene	ug/L	0.808 ND/U	0.808 ND/U		
SW8270C	Benzo(a)pyrene	ug/L	0.723 ND/U	0.723 ND/U		
SW8270C	Benzo(b)fluoranthene	ug/L	0.789 ND/U	0.789 ND/U		
SW8270C	Benzo(g,h,i)perylene	ug/L	0.664 ND/U	0.664 ND/U		
SW8270C	Benzo(k)fluoranthene	ug/L	0.694 ND/U	0.694 ND/U		
SW8270C	Benzoic acid	ug/L	ND/R	ND/R		
SW8270C	Benzyl alcohol	ug/L	2.63 ND/U	2.63 ND/U		
SW8270C	Benzyl butyl phthalate	ug/L	2.88 ND/U	2.88 ND/U		
SW8270C	Biphenyl (Diphenyl)	ug/L	2.15 ND/U	2.15 ND/U		
SW8270C	Caprolactam	ug/L	2.44 ND/U	2.44 ND/U		
SW8270C	Carbazole	ug/L	2.23 ND/U	2.23 ND/U		
SW8270C	Chrysene	ug/L	0.801 ND/U	0.801 ND/U		
SW8270C	Di-n-butylphthalate	ug/L	3.20 ND/U	3.20 ND/U		
SW8270C	Di-n-octylphthalate	ug/L	2.65 ND/U	2.65 ND/U		
SW8270C	Dibenz(a,h)anthracene	ug/L	0.710 ND/U	0.710 ND/U		
SW8270C	Dibenzofuran	ug/L	2.32 ND/U	2.32 ND/U		
SW8270C	Diethylphthalate	ug/L	2.36 ND/U	2.36 ND/U		

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-MKMW09-01A 1/24/2005 RESULT / QUAL	PBOW-05-GW-PB-BEDMW19-01A 1/24/2005 RESULT / QUAL		
SW8270C	Dimethylphthalate	ug/L	3.16 ND/U	3.16 ND/U		
SW8270C	Fluoranthene	ug/L	0.753 ND/U	0.753 ND/U		
SW8270C	Fluorene	ug/L	0.747 ND/U	0.747 ND/U		
SW8270C	Hexachlorobenzene	ug/L	2.49 ND/U	2.49 ND/U		
SW8270C	Hexachlorobutadiene	ug/L	1.93 ND/U	1.93 ND/U		
SW8270C	Hexachlorocyclopentadiene	ug/L	1.56 ND/UJ	1.56 ND/UJ		
SW8270C	Hexachloroethane	ug/L	1.38 ND/U	1.38 ND/U		
SW8270C	Indeno(1,2,3-cd)pyrene	ug/L	0.748 ND/U	0.748 ND/U		
SW8270C	Isophorone	ug/L	2.05 ND/U	2.05 ND/U		
SW8270C	N-Nitroso-di-n-propylamine	ug/L	3.13 ND/U	3.13 ND/U		
SW8270C	N-Nitrosodimethylamine	ug/L	3.06 ND/U	3.06 ND/U		
SW8270C	N-Nitrosodiphenylamine	ug/L	3.41 ND/U	3.41 ND/U		
SW8270C	Naphthalene	ug/L	0.540 ND/U	1.57/TR/J		
SW8270C	Nitrobenzene	ug/L	2.07 ND/U	2.07 ND/U		
SW8270C	Pentachlorophenol	ug/L	5.36 ND/UJ	5.36 ND/UJ		
SW8270C	Phenanthrene	ug/L	0.684 ND/U	0.684 ND/U		
SW8270C	Phenol	ug/L	4.27 ND/U	4.27 ND/U		
SW8270C	Pyrene	ug/L	0.723 ND/U	0.723 ND/U		
SW8270C	bis(2-Chloroethoxy)methane	ug/L	2.64 ND/U	2.64 ND/U		
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	2.44 ND/U	2.44 ND/U		
SW8270C	bis(2-Chloroisopropyl)ether	ug/L	3.16 ND/U	3.16 ND/U		
SW8270C	bis(2-Ethylhexyl)phthalate	ug/L	3.49 ND/U	3.49 ND/U		
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U	0.123 ND/U		
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U	0.171 ND/U		
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U	0.272 ND/U		
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U	0.139 ND/U		
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U	0.117 ND/U		
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U	0.137 ND/U		
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/U	0.118 ND/U		
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U	0.145 ND/U		
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U	0.373 ND/U		
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U	0.126 ND/U		
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U	0.0800 ND/U		
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U	0.109 ND/U		
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U	0.0961 ND/U		
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U	0.0933 ND/U		
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U	0.101 ND/U		
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U	0.815 ND/U		
SW8260B	2-Hexanone	ug/L	0.187 ND/U	0.187 ND/U		
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone	ug/L	0.393 ND/U	0.393 ND/U		
SW8260B	Acetone	ug/L	1.73 ND/U	1.73 ND/U		
SW8260B	Benzene	ug/L	0.104 ND/U	6.73/=		
SW8260B	Bromochloromethane	ug/L	0.159 ND/U	0.159 ND/U		

Plum Brook Acid Areas 2 and 3
Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-MKMW09-01A 1/24/2005 RESULT / QUAL	PBOW-05-GW-PB-BEDMW19-01A 1/24/2005 RESULT / QUAL		
SW8260B	Bromodichloromethane	ug/L	0.141 ND/U	0.141 ND/U		
SW8260B	Bromoform	ug/L	0.0990 ND/U	0.0990 ND/U		
SW8260B	Bromomethane	ug/L	0.101 ND/U	0.101 ND/U		
SW8260B	Carbon Disulfide	ug/L	0.118 ND/U	0.203/TR/J		
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U	0.111 ND/U		
SW8260B	Chlorobenzene	ug/L	0.115 ND/U	0.115 ND/U		
SW8260B	Chloroethane	ug/L	0.121 ND/U	0.121 ND/U		
SW8260B	Chloroform	ug/L	0.120 ND/U	0.120 ND/U		
SW8260B	Chloromethane	ug/L	0.142 ND/U	0.142 ND/U		
SW8260B	Cyclohexane	ug/L	0.0999 ND/U	55.0/=		
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U	0.0874 ND/U		
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U	0.304 ND/U		
SW8260B	Ethylbenzene	ug/L	0.164 ND/U	3.04/=		
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.101 ND/U	1.23/=		
SW8260B	Methyl Acetate	ug/L	0.387 ND/U	0.387 ND/U		
SW8260B	Methylcyclohexane	ug/L	0.107 ND/U	30.3/=		
SW8260B	Methylene Chloride	ug/L	0.128 ND/U	0.128 ND/U		
SW8260B	Styrene	ug/L	0.118 ND/U	0.118 ND/U		
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U	0.109 ND/U		
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U	0.141 ND/U		
SW8260B	Toluene	ug/L	0.119 ND/U	1.73/=		
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U	0.163 ND/U		
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U	0.185 ND/U		
SW8260B	Vinyl chloride	ug/L	0.119 ND/U	0.119 ND/U		
SW8260B	Xylenes, Total	ug/L	0.307 ND/U	22.6/=		
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U	0.0990 ND/U		
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U	0.104 ND/U		
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U	0.128 ND/U		
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U	0.112 ND/U		

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Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB012105 1/21/2005 RESULT / QUAL	PBOW-05-TB-012305-01 1/23/2005 RESULT / QUAL	PBOW-05-TB-012505-01 1/25/2005 RESULT / QUAL	PBOW-05-TB-012705-01 1/27/2005 RESULT / QUAL
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U	0.123 ND/U	0.123 ND/U	0.123 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U	0.171 ND/U	0.171 ND/U	0.171 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U	0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U	0.139 ND/U	0.139 ND/U	0.139 ND/U
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U	0.117 ND/U	0.117 ND/U	0.117 ND/U
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U	0.137 ND/U	0.137 ND/U	0.137 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/UJ	0.118 ND/UJ
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U	0.145 ND/U	0.145 ND/U	0.145 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U	0.373 ND/U	0.373 ND/U	0.373 ND/U
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U	0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U	0.0800 ND/U
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U	0.0961 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U	0.0933 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U	0.815 ND/U	0.815 ND/U	0.815 ND/U
SW8260B	2-Hexanone	ug/L	0.187 ND/U	0.187 ND/U	0.187 ND/U	0.187 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	0.393 ND/U	0.393 ND/U	0.393 ND/U	0.393 ND/U
SW8260B	Acetone	ug/L	3.21/TR/J	3.06/TR/J	3.21/TR/J	3.08/TR/J
SW8260B	Benzene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	Bromochloromethane	ug/L	0.159 ND/U	0.159 ND/U	0.159 ND/U	0.159 ND/U
SW8260B	Bromodichloromethane	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Bromoform	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	Bromomethane	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Carbon Disulfide	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U	0.111 ND/U	0.111 ND/U	0.111 ND/U
SW8260B	Chlorobenzene	ug/L	0.115 ND/U	0.115 ND/U	0.115 ND/U	0.115 ND/U
SW8260B	Chloroethane	ug/L	0.121 ND/U	0.121 ND/U	0.121 ND/U	0.121 ND/U
SW8260B	Chloroform	ug/L	1.81/=	1.81/=	1.84/=	1.80/=
SW8260B	Chloromethane	ug/L	0.142 ND/U	0.142 ND/U	0.142 ND/U	0.142 ND/U
SW8260B	Cyclohexane	ug/L	0.0999 ND/U	0.0999 ND/U	0.0999 ND/U	0.0999 ND/U
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U	0.0874 ND/U
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U	0.304 ND/U	0.304 ND/U	0.304 ND/U
SW8260B	Ethylbenzene	ug/L	0.164 ND/U	0.164 ND/U	0.164 ND/U	0.164 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.101 ND/U	0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Methyl Acetate	ug/L	0.387 ND/U	0.387 ND/U	0.387 ND/UJ	0.387 ND/U
SW8260B	Methylcyclohexane	ug/L	0.107 ND/U	0.107 ND/U	0.107 ND/U	0.107 ND/U
SW8260B	Methylene Chloride	ug/L	1.25/=	1.31/=	1.29/=	1.30/=
SW8260B	Styrene	ug/L	0.118 ND/U	0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U	0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U	0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Toluene	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U	0.163 ND/U	0.163 ND/U	0.163 ND/U

Plum Brook Acid Areas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB012105 1/21/2005 RESULT / QUAL	PBOW-05-TB-012305-01 1/23/2005 RESULT / QUAL	PBOW-05-TB-012505-01 1/25/2005 RESULT / QUAL	PBOW-05-TB-012705-01 1/27/2005 RESULT / QUAL
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U	0.185 ND/U	0.185 ND/U	0.185 ND/U
SW8260B	Vinyl chloride	ug/L	0.119 ND/U	0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Xylenes, Total	ug/L	0.307 ND/U	0.307 ND/U	0.307 ND/U	0.307 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U	0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U	0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U	0.112 ND/U	0.112 ND/U	0.112 ND/U

Plum Brook A... ..eas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDMW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01C 1/28/2005 RESULT / QUAL	PBOW-05-TB-012805-01 1/28/2005 RESULT / QUAL
	Wet Chemistry					
SW9012	Cyanide	mg/L	0.0070 ND/UJ		0.0070 ND/UJ	
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.0499 ND/U		0.0475 ND/U	
SW8330	1,3-Dinitrobenzene	ug/L	0.0677 ND/U		0.0645 ND/U	
SW8330	2,4,6-Trinitrotoluene	ug/L	0.145 ND/U		0.138 ND/U	
SW8330	2,4-Dinitrotoluene	ug/L	0.108 ND/U		0.103 ND/U	
SW8330	2,6-Dinitrotoluene	ug/L	0.203 ND/U		0.193 ND/U	
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.106 ND/UJ		0.101 ND/UJ	
SW8330	2-Nitrotoluene	ug/L	0.208 ND/U		0.198 ND/U	
SW8330	3-Nitrotoluene	ug/L	0.383 ND/U		0.365 ND/U	
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.216 ND/U		0.206 ND/U	
SW8330	4-Nitrotoluene	ug/L	0.188 ND/U		0.179 ND/U	
SW8330	HMX	ug/L	0.0710 ND/U		0.0676 ND/U	
SW8330	Nitrobenzene	ug/L	0.112 ND/U		0.107 ND/U	
SW8330	RDX	ug/L	0.0871 ND/U		0.0830 ND/U	
SW8330	Tetryl	ug/L	0.213 ND/U		0.203 ND/U	
	Metals					
SW6010B	Aluminum (total)	ug/L	45.4 ND/U		45.4 ND/U	
SW6010B	Antimony (total)	ug/L	8.16 ND/U		8.16 ND/U	
SW6010B	Arsenic (total)	ug/L	4.59 ND/U		4.59 ND/U	
SW6010B	Barium (total)	ug/L	4.71/TR/J		0.693 ND/U	
SW6010B	Beryllium (total)	ug/L	0.109 ND/U		0.109 ND/U	
SW6010B	Cadmium (total)	ug/L	0.713 ND/U		0.713 ND/U	
SW6010B	Calcium (total)	ug/L	90.9 ND/U		90.9 ND/U	
SW6010B	Chromium (total)	ug/L	0.236 ND/U		0.236 ND/U	
SW6010B	Cobalt (total)	ug/L	0.898 ND/U		0.898 ND/U	
SW6010B	Copper (total)	ug/L	2.55 ND/U		2.55 ND/U	
SW6010B	Iron (total)	ug/L	22.9 ND/U		22.9 ND/U	
SW6010B	Lead (total)	ug/L	2.44 ND/U		2.44 ND/U	
SW6010B	Magnesium (total)	ug/L	38.5 ND/U		38.5 ND/U	
SW6010B	Manganese (total)	ug/L	0.419 ND/U		0.419 ND/U	
SW7470A	Mercury (total)	ug/L	0.0584 ND/U		0.0584 ND/U	
SW6010B	Nickel (total)	ug/L	0.745 ND/U		0.745 ND/U	
SW6010B	Potassium (total)	ug/L	175 ND/U		175 ND/U	
SW6010B	Selenium (total)	ug/L	11.1 ND/UJ		11.1 ND/UJ	
SW6010B	Silver (total)	ug/L	1.30 ND/U		1.30 ND/U	
SW6010B	Sodium (total)	ug/L	92.8/TR/J		320/TR/J	
SW6010B	Thallium (total)	ug/L	14.1 ND/U		14.1 ND/U	
SW6010B	Vanadium (total)	ug/L	2.90/TR/J		2.21/TR/J	
SW6010B	Zinc (total)	ug/L	1.46 ND/U		1.46 ND/U	
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.660 ND/U		0.653 ND/U	
SW8082	PCB-1221 (Aroclor 1221)	ug/L	1.96 ND/U		1.94 ND/U	

Plum Brook Acid Areas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDMW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01C 1/28/2005 RESULT / QUAL	PBOW-05-TB-012805-01 1/28/2005 RESULT / QUAL
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.955 ND/U		0.946 ND/U	
SW8082	PCB-1242 (Aroclor 1242)	ug/L	1.45 ND/U		1.44 ND/U	
SW8082	PCB-1248 (Aroclor 1248)	ug/L	1.95 ND/U		1.93 ND/U	
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.292 ND/U		0.289 ND/U	
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.296 ND/U		0.293 ND/U	
	Semivolatile Organic Compounds					
SW8270C	1,2,4-Trichlorobenzene	ug/L	1.74 ND/U		1.74 ND/U	
SW8270C	1,2-Dichlorobenzene	ug/L	1.82 ND/U		1.82 ND/U	
SW8270C	1,3-Dichlorobenzene	ug/L	1.63 ND/U		1.63 ND/U	
SW8270C	1,4-Dichlorobenzene	ug/L	1.79 ND/U		1.79 ND/U	
SW8270C	2,4,5-Trichlorophenol	ug/L	5.39 ND/U		5.39 ND/U	
SW8270C	2,4,6-Trichlorophenol	ug/L	4.61 ND/U		4.61 ND/U	
SW8270C	2,4-Dichlorophenol	ug/L	4.42 ND/U		4.42 ND/U	
SW8270C	2,4-Dimethylphenol	ug/L	4.48 ND/UJ		4.48 ND/UJ	
SW8270C	2,4-Dinitrophenol	ug/L	4.64 ND/U		4.64 ND/U	
SW8270C	2,4-Dinitrotoluene	ug/L	2.44 ND/U		2.44 ND/U	
SW8270C	2,6-Dinitrotoluene	ug/L	2.28 ND/U		2.28 ND/U	
SW8270C	2-Chloronaphthalene	ug/L	2.82 ND/U		2.82 ND/U	
SW8270C	2-Chlorophenol	ug/L	4.38 ND/U		4.38 ND/U	
SW8270C	2-Methylnaphthalene	ug/L	2.08 ND/U		2.08 ND/U	
SW8270C	2-Methylphenol (o-Cresol)	ug/L	4.18 ND/U		4.18 ND/U	
SW8270C	2-Nitroaniline	ug/L	3.06 ND/U		3.06 ND/U	
SW8270C	2-Nitrophenol	ug/L	4.05 ND/U		4.05 ND/U	
SW8270C	3,3'-Dichlorobenzidine	ug/L	7.25 ND/U		7.25 ND/U	
SW8270C	3-Nitroaniline	ug/L	3.10 ND/U		3.10 ND/U	
SW8270C	4,6-Dinitro-2-methylphenol	ug/L	4.91 ND/U		4.91 ND/U	
SW8270C	4-Bromophenyl phenyl ether	ug/L	3.16 ND/U		3.16 ND/U	
SW8270C	4-Chloro-3-methylphenol	ug/L	4.49 ND/U		4.49 ND/U	
SW8270C	4-Chloroaniline	ug/L	2.64 ND/UJ		2.64 ND/UJ	
SW8270C	4-Chlorophenyl phenyl ether	ug/L	3.37 ND/U		3.37 ND/U	
SW8270C	4-Methylphenol (p-Cresol)	ug/L	4.52 ND/U		4.52 ND/U	
SW8270C	4-Nitroaniline	ug/L	3.31 ND/U		3.31 ND/U	
SW8270C	4-Nitrophenol	ug/L	4.57 ND/U		4.57 ND/U	
SW8270C	Acenaphthene	ug/L	0.665 ND/U		0.665 ND/U	
SW8270C	Acenaphthylene	ug/L	0.592 ND/U		0.592 ND/U	
SW8270C	Acetophenone	ug/L	2.23 ND/U		2.23 ND/U	
SW8270C	Anthracene	ug/L	0.663 ND/U		0.663 ND/U	
SW8270C	Atrazine	ug/L	2.33 ND/U		2.33 ND/U	
SW8270C	Benzaldehyde	ug/L	2.36 ND/U		2.36 ND/U	
SW8270C	Benzo(a)anthracene	ug/L	0.816 ND/U		0.816 ND/U	
SW8270C	Benzo(a)pyrene	ug/L	0.730 ND/U		0.730 ND/U	
SW8270C	Benzo(b)fluoranthene	ug/L	0.796 ND/U		0.796 ND/U	
SW8270C	Benzo(g,h,i)perylene	ug/L	0.671 ND/U		0.671 ND/U	
SW8270C	Benzo(k)fluoranthene	ug/L	0.701 ND/U		0.701 ND/U	

Plum Brook Acid Areas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDMW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01C 1/28/2005 RESULT / QUAL	PBOW-05-TB-012805-01 1/28/2005 RESULT / QUAL
SW8270C	Benzoic acid	ug/L	ND/R		ND/R	
SW8270C	Benzyl alcohol	ug/L	2.65 ND/U		2.65 ND/U	
SW8270C	Benzyl butyl phthalate	ug/L	2.91 ND/U		2.91 ND/U	
SW8270C	Biphenyl (Diphenyl)	ug/L	2.17 ND/U		2.17 ND/U	
SW8270C	Caprolactam	ug/L	2.46 ND/U		2.46 ND/U	
SW8270C	Carbazole	ug/L	2.25 ND/U		2.25 ND/U	
SW8270C	Chrysene	ug/L	0.808 ND/U		0.808 ND/U	
SW8270C	Di-n-butylphthalate	ug/L	3.23 ND/U		3.23 ND/U	
SW8270C	Di-n-octylphthalate	ug/L	2.68 ND/U		2.68 ND/U	
SW8270C	Dibenz(a,h)anthracene	ug/L	0.717 ND/U		0.717 ND/U	
SW8270C	Dibenzofuran	ug/L	2.34 ND/U		2.34 ND/U	
SW8270C	Diethylphthalate	ug/L	2.39 ND/U		2.39 ND/U	
SW8270C	Dimethylphthalate	ug/L	3.19 ND/U		3.19 ND/U	
SW8270C	Fluoranthene	ug/L	0.760 ND/U		0.760 ND/U	
SW8270C	Fluorene	ug/L	0.754 ND/U		0.754 ND/U	
SW8270C	Hexachlorobenzene	ug/L	2.51 ND/U		2.51 ND/U	
SW8270C	Hexachlorobutadiene	ug/L	1.95 ND/U		1.95 ND/U	
SW8270C	Hexachlorocyclopentadiene	ug/L	1.58 ND/UJ		1.58 ND/UJ	
SW8270C	Hexachloroethane	ug/L	1.40 ND/U		1.40 ND/U	
SW8270C	Indeno(1,2,3-cd)pyrene	ug/L	0.755 ND/U		0.755 ND/U	
SW8270C	Isophorone	ug/L	2.07 ND/U		2.07 ND/U	
SW8270C	N-Nitroso-di-n-propylamine	ug/L	3.16 ND/U		3.16 ND/U	
SW8270C	N-Nitrosodimethylamine	ug/L	3.08 ND/U		3.08 ND/U	
SW8270C	N-Nitrosodiphenylamine	ug/L	3.44 ND/U		3.44 ND/U	
SW8270C	Naphthalene	ug/L	0.545 ND/U		0.545 ND/U	
SW8270C	Nitrobenzene	ug/L	2.08 ND/U		2.08 ND/U	
SW8270C	Pentachlorophenol	ug/L	5.42 ND/UJ		5.42 ND/UJ	
SW8270C	Phenanthrene	ug/L	0.691 ND/U		0.691 ND/U	
SW8270C	Phenol	ug/L	4.31 ND/U		4.31 ND/U	
SW8270C	Pyrene	ug/L	0.730 ND/U		0.730 ND/U	
SW8270C	bis(2-Chloroethoxy)methane	ug/L	2.67 ND/U		2.67 ND/U	
SW8270C	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	2.46 ND/U		2.46 ND/U	
SW8270C	bis(2-Chloroisopropyl)ether	ug/L	3.19 ND/U		3.19 ND/U	
SW8270C	bis(2-Ethylhexyl)phthalate	ug/L	3.52 ND/U		3.52 ND/U	
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L		0.123 ND/U	0.123 ND/U	0.123 ND/U
SW8260B	1,1,2,2-Tetrachloroethane	ug/L		0.171 ND/U	0.171 ND/U	0.171 ND/U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L		0.272 ND/U	0.272 ND/U	0.272 ND/U
SW8260B	1,1,2-Trichloroethane	ug/L		0.139 ND/U	0.139 ND/U	0.139 ND/U
SW8260B	1,1-Dichloroethane	ug/L		0.117 ND/U	0.117 ND/U	0.117 ND/U
SW8260B	1,1-Dichloroethene	ug/L		0.137 ND/U	0.137 ND/U	0.137 ND/U
SW8260B	1,2,3-Trichlorobenzene	ug/L		0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	1,2,4-Trichlorobenzene	ug/L		0.287/TR/J	0.324/TR/J	0.145 ND/U
SW8260B	1,2-Dibromo-3-chloropropane	ug/L		0.373 ND/U	0.373 ND/U	0.373 ND/U

Plum Brook Acid Areas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDMW001-01C 1/28/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-01C 1/28/2005 RESULT / QUAL	PBOW-05-TB-012805-01 1/28/2005 RESULT / QUAL
SW8260B	1,2-Dibromoethane (EDB)	ug/L		0.126 ND/U	0.126 ND/U	0.126 ND/U
SW8260B	1,2-Dichlorobenzene	ug/L		0.0800 ND/U	0.0800 ND/U	0.0800 ND/U
SW8260B	1,2-Dichloroethane	ug/L		0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	1,2-Dichloropropane	ug/L		0.0961 ND/U	0.0961 ND/U	0.0961 ND/U
SW8260B	1,3-Dichlorobenzene	ug/L		0.0933 ND/U	0.0933 ND/U	0.0933 ND/U
SW8260B	1,4-Dichlorobenzene	ug/L		0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L		0.815 ND/U	0.815 ND/U	0.815 ND/U
SW8260B	2-Hexanone	ug/L		0.187 ND/U	0.187 ND/U	0.187 ND/U
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L		0.393 ND/U	0.393 ND/U	0.393 ND/U
SW8260B	Acetone	ug/L		1.73 ND/U	1.73 ND/U	2.45/TR/J
SW8260B	Benzene	ug/L		0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	Bromochloromethane	ug/L		0.159 ND/U	0.159 ND/U	0.159 ND/U
SW8260B	Bromodichloromethane	ug/L		0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Bromoform	ug/L		0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	Bromomethane	ug/L		0.101 ND/U	0.101 ND/U	0.101 ND/U
SW8260B	Carbon Disulfide	ug/L		0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Carbon tetrachloride	ug/L		0.111 ND/U	0.111 ND/U	0.111 ND/U
SW8260B	Chlorobenzene	ug/L		0.115 ND/U	0.115 ND/U	0.115 ND/U
SW8260B	Chloroethane	ug/L		0.121 ND/U	0.121 ND/U	0.121 ND/U
SW8260B	Chloroform	ug/L		0.120 ND/U	0.120 ND/U	1.63/=
SW8260B	Chloromethane	ug/L		0.142 ND/U	0.142 ND/U	0.142 ND/U
SW8260B	Cyclohexane	ug/L		7.29/=	0.0999 ND/U	0.0999 ND/U
SW8260B	Dibromochloromethane	ug/L		0.0874 ND/U	0.0874 ND/U	0.0874 ND/U
SW8260B	Dichlorodifluoromethane	ug/L		0.304 ND/U	0.304 ND/U	0.304 ND/U
SW8260B	Ethylbenzene	ug/L		0.428/TR/J	0.164 ND/U	0.164 ND/U
SW8260B	Isopropylbenzene (Cumene)	ug/L		0.234/TR/J	0.101 ND/U	0.101 ND/U
SW8260B	Methyl Acetate	ug/L		0.387 ND/U	0.387 ND/U	0.387 ND/U
SW8260B	Methylcyclohexane	ug/L		4.84/=	0.107 ND/U	0.107 ND/U
SW8260B	Methylene Chloride	ug/L		0.128 ND/U	0.128 ND/U	1.19/=
SW8260B	Styrene	ug/L		0.118 ND/U	0.118 ND/U	0.118 ND/U
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L		0.109 ND/U	0.109 ND/U	0.109 ND/U
SW8260B	Tetrachloroethene (PCE)	ug/L		0.141 ND/U	0.141 ND/U	0.141 ND/U
SW8260B	Toluene	ug/L		0.268/TR/J	0.186/TR/J	0.119 ND/U
SW8260B	Trichloroethene (TCE)	ug/L		0.163 ND/U	0.163 ND/U	0.163 ND/U
SW8260B	Trichlorofluoromethane	ug/L		0.185 ND/U	0.185 ND/U	0.185 ND/U
SW8260B	Vinyl chloride	ug/L		0.119 ND/U	0.119 ND/U	0.119 ND/U
SW8260B	Xylenes, Total	ug/L		5.96/=	0.307 ND/U	0.307 ND/U
SW8260B	cis-1,2-Dichloroethene	ug/L		0.0990 ND/U	0.0990 ND/U	0.0990 ND/U
SW8260B	cis-1,3-Dichloropropene	ug/L		0.104 ND/U	0.104 ND/U	0.104 ND/U
SW8260B	trans-1,2-Dichloroethene	ug/L		0.128 ND/U	0.128 ND/U	0.128 ND/U
SW8260B	trans-1,3-Dichloropropene	ug/L		0.112 ND/U	0.112 ND/U	0.112 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-020205-01 2/2/2005 RESULT / QUAL			
	Volatile Organic Compounds					
SW8260B	1,1,1-Trichloroethane	ug/L	0.123 ND/U			
SW8260B	1,1,2,2-Tetrachloroethane	ug/L	0.171 ND/U			
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.272 ND/U			
SW8260B	1,1,2-Trichloroethane	ug/L	0.139 ND/U			
SW8260B	1,1-Dichloroethane	ug/L	0.117 ND/U			
SW8260B	1,1-Dichloroethene	ug/L	0.137 ND/U			
SW8260B	1,2,3-Trichlorobenzene	ug/L	0.118 ND/U			
SW8260B	1,2,4-Trichlorobenzene	ug/L	0.145 ND/U			
SW8260B	1,2-Dibromo-3-chloropropane	ug/L	0.373 ND/U			
SW8260B	1,2-Dibromoethane (EDB)	ug/L	0.126 ND/U			
SW8260B	1,2-Dichlorobenzene	ug/L	0.0800 ND/U			
SW8260B	1,2-Dichloroethane	ug/L	0.109 ND/U			
SW8260B	1,2-Dichloropropane	ug/L	0.0961 ND/U			
SW8260B	1,3-Dichlorobenzene	ug/L	0.0933 ND/U			
SW8260B	1,4-Dichlorobenzene	ug/L	0.101 ND/U			
SW8260B	2-Butanone (Methyl ethyl ketone)	ug/L	0.815 ND/U			
SW8260B	2-Hexanone	ug/L	0.187 ND/U			
SW8260B	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	0.393 ND/U			
SW8260B	Acetone	ug/L	2.27/TR/J			
SW8260B	Benzene	ug/L	0.104 ND/U			
SW8260B	Bromochloromethane	ug/L	0.159 ND/U			
SW8260B	Bromodichloromethane	ug/L	0.141 ND/U			
SW8260B	Bromoform	ug/L	0.0990 ND/UJ			
SW8260B	Bromomethane	ug/L	0.101 ND/U			
SW8260B	Carbon Disulfide	ug/L	0.118 ND/U			
SW8260B	Carbon tetrachloride	ug/L	0.111 ND/U			
SW8260B	Chlorobenzene	ug/L	0.115 ND/U			
SW8260B	Chloroethane	ug/L	0.121 ND/U			
SW8260B	Chloroform	ug/L	0.120 ND/U			
SW8260B	Chloromethane	ug/L	0.142 ND/U			
SW8260B	Cyclohexane	ug/L	0.0999 ND/U			
SW8260B	Dibromochloromethane	ug/L	0.0874 ND/U			
SW8260B	Dichlorodifluoromethane	ug/L	0.304 ND/U			
SW8260B	Ethylbenzene	ug/L	0.164 ND/U			
SW8260B	Isopropylbenzene (Cumene)	ug/L	0.101 ND/U			
SW8260B	Methyl Acetate	ug/L	0.387 ND/U			
SW8260B	Methylcyclohexane	ug/L	0.107 ND/U			
SW8260B	Methylene Chloride	ug/L	0.128 ND/U			
SW8260B	Styrene	ug/L	0.118 ND/U			
SW8260B	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.109 ND/U			
SW8260B	Tetrachloroethene (PCE)	ug/L	0.141 ND/U			
SW8260B	Toluene	ug/L	0.119 ND/U			
SW8260B	Trichloroethene (TCE)	ug/L	0.163 ND/U			

Plum Brook Acid Areas 2 and 3

Equipment Rinsate and Trip Blanks Associated with the Round 1 Groundwater Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-020205-01 2/2/2005 RESULT / QUAL			
SW8260B	Trichlorofluoromethane	ug/L	0.185 ND/U			
SW8260B	Vinyl chloride	ug/L	0.119 ND/U			
SW8260B	Xylenes, Total	ug/L	0.307 ND/U			
SW8260B	cis-1,2-Dichloroethene	ug/L	0.0990 ND/U			
SW8260B	cis-1,3-Dichloropropene	ug/L	0.104 ND/U			
SW8260B	trans-1,2-Dichloroethene	ug/L	0.128 ND/U			
SW8260B	trans-1,3-Dichloropropene	ug/L	0.112 ND/U			

CHEMICAL DATA QUALITY REPORT

SURFACE WATER AND ROUND 2 GROUNDWATER DATA FOR THE REMEDIAL INVESTIGATION, PART 1, AT ACID AREAS 2 AND 3

FORMER PLUM BROOK ORDNANCE WORKS SANDUSKY, OHIO

Prepared for:

DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
NASHVILLE, TENNESSEE
CONTRACT DACW62-03-D-0004-0004

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August 2005

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ATTACHMENT 1 SAMPLE INFORMATION TABLES

ATTACHMENT 2 TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Abbreviations and Acronyms

C	Celsius
CDQR	Chemical Data Quality Report
CLP	USEPA Contract Laboratory Program
COC	Chain of Custody
CQAR	Chemical Quality Assurance Report
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
DQA	Data Quality Assessment
DQO	Data Quality Objectives
GC	Gas Chromatograph or Gas Chromatography
HTRW-CX	Hazardous, Toxic, and Radioactive Waste - Center of Expertise
IS	Internal Standard
Jacobs	Jacobs Engineering Group Inc
LCS	Laboratory Control Sample
LDP	Laboratory Data Package
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PCB	Polychlorinated Biphenyl Compounds
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
QAPP	Quality Assurance Project Plan
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SD	Serial Dilution QC sample
SDG	Sample Delivery Group
SUR	Surrogate Spike
SVOC	Semi-volatile Organic Compound
SW-846	EPA Solid Waste Analytical Protocols
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
TOC	Total Organic Carbon
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

This Chemical Data Quality Report (CDQR) presents an evaluation of the quality and usability of the analytical data generated in support of the round 2 groundwater and surface water for the remedial investigation at Acid Areas 2 and 3 at the former Plum Brook Ordnance Works (PBOW). Jacobs Engineering (Jacobs) performed this remedial investigation for the United States Army Corps of Engineers (USACE) Nashville District under contract number DACW62-03-D-0004, task order 0004.

Both primary and quality assurance (QA) environmental samples were collected by Jacobs and were submitted to approved laboratories for chemical analyses. Jacobs provided data quality evaluation services for the primary data, and Stratum Engineering, Inc. was subcontracted to evaluate the QA data and prepare the subsequent Chemical Quality Assurance report (CQAR). This CDQR covers Jacobs' evaluation of the primary data.

This evaluation meets and completes the requirement of Step 2 "data verification" of the project data quality assessment (DQA) process. Completion of this step completes Jacob's portion of the requirement in the DQA process. A description of the DQA process is included in Section 8.2.2 of the approved Quality Assurance Project Plan (QAPP). As specified in the QAPP, the findings of this evaluation were discussed in terms of data precision, accuracy, representativeness, sensitivity and completeness.

1.1 REPORT ORGANIZATION

The CDQR has been organized into four sections and two attachments:

- Section 1 - Report organization and data quality program including: analytical laboratory used, analytical samples included in the evaluation, analytical protocols/methods employed, data evaluation procedures followed, and summary of data reporting formats.
- Section 2 - Definitions of qualifiers that may be assigned to data based on this evaluation.
- Section 3 - Statement of the project overall data quality and summary of qualifiers applied to the data as a result of this evaluation.
- Section 4 - Data quality narratives.
- Attachment 1 - Sample information tables including field and laboratory ID cross-reference.
- Attachment 2 - Test result tables with review qualifiers applied.

1.2 DATA QUALITY ASSURANCE PROGRAM

In order to verify compliance with project objectives, it was required that certain measurements of chemical constituents in environmental samples be made that met definitive data quality standards. This CDQR is applicable to those data.

Definitive data standards are specified by the USEPA in *"Data Quality Objectives Process for Superfund,"* EPA540-R-93-071, USEPA Office of Emergency and Remedial Response, September 1993. Definitive data are defined as follows:

> "Definitive data are generated using rigorous analytical methods, such as approved EPA reference methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data (e.g., chromatograms, spectra, digital values) in the form of paper printouts or computer-generated electronic files. Data may

be generated at the site or at an off-site location, as long as the QA/QC requirements are satisfied. For the data to be definitive, either analytical or total measurement error must be determined."

Specific project data quality objectives (DQOs) and procedures to achieve the DQOs are documented in the approved project Sampling and Analysis Plan Addendum (SAP). Key elements of the quality program relating to this evaluation include:

- Use of approved, USACE-validated laboratories.
- Use of a sampling program designed to meet the project objectives.
- Use of appropriate analytical methods and measurement parameters.
- Evaluation of reported QA/QC to verify compliance with DQOs.
- Use of appropriate analytical data reporting formats.

These elements are discussed in the following paragraphs.

1.2.1 Project Analytical Laboratories

The analytical laboratories employed on this project were evaluated by the USACE Hazardous, Toxic and Radioactive Waste Center of Expertise (HTRW-CX) and hold a current letters of validation from HTRW-CX to perform sample analyses in support of the USACE HTRW Program. This validation confirms their ability to produce reliable and defensible data. The primary analytical laboratory used was:

ELAB of Tennessee (ELAB)
Contact: Marcia McGinnity
227 French Landing Drive
Suite 550
Nashville, TN 37228
Phone: 615-345-1115

1.2.2 Sampling Program Design/Project Samples

The sampling program was designed to collect samples representative of site conditions at the time of sampling and to generate data of sufficient quality and quantity to make the intended decisions. Project analytical samples were collected using standardized, USACE approved procedures documented in the sampling and analysis plan (SAP). The SAP was approved by the USACE prior to collection of the associated project samples and included the basis for selecting the sampling locations, sample collection procedures, frequency and type of samples collected, and the analytical parameters for each sample. There were no known deviations to the sample collection procedures presented in the SAP.

Definitive data measurements were required for the samples collected in support of this investigation. The investigation utilized the EPA Target Analyte List/Target Compound List (TAL/TCL) of analytes as the constituents of concern. The rationale for required analytical measurements and resulting data use is specified in the project QAPP.

Project samples included in this evaluation consist of primary round two groundwater samples, surface water samples, and associated field QC samples collected in between April 21 and April 30 of 2005. The laboratory reported the round two groundwater samples, surface water samples, and field QC analyses in a single sample delivery group (SDG), named ELAB PLUMBROOK W002.

A listing of specific project samples contained in the SDG, along with a cross reference of sample field ID numbers to laboratory ID numbers, is included in the Sample Information Table at the beginning of the SDG. A Sample Information table has been compiled fom the electronic data deliverable and is included with this report as Attachment 1.

1.2.3 Project Analytical Methods and Measurement Parameters

In order to obtain definitive data and promote data comparability, the laboratory was required to perform testing within the guidelines of standardized, USEPA and USACE approved methods and procedures included in the following protocols:

- *"Test Methods for Evaluating Solid Waste,"* SW-846, 3rd Edition, Update III, U.S. EPA, November 1986, (SW-846).
- "*Shell for Analytical Chemistry Requirements*," Appendix I, from EM 200-1-3 "*Requirements for the Preparation of Sampling and Analysis Plans*" USACE HTRW-CX, February 2001.

The project included collection of definitive data for the organics and metals analyses, and screening level data for the water quality parameters for the round two groundwater and surface water samples. Specific analytical methods used in the analysis of each project sample were included in the laboratory case narratives included in the data deliverable and are summarized below for each primary sample type.

Definitive Data Methods for Groundwater Samples

- TCL Volatile organic compounds (VOCs) by SW-846 50305/8260B
- TCL Semi-volatile organic compounds (SVOCs) by SW-846 3510/8270C
- Polychlorinated biphenyls (PCBs) by SW-846 3520C/8082
- Nitroaromatics by SW-846 8330
- TAL Total Metals by SW-846 3005AB/6010B/7470A
- Total Organic Carbon (TOC) by SW-846 9060
- Cyanide by SW-846 9012A

Water Quality Parameters

- Turbidity by EPA 180.1
- Alkalinity by EPA 310.1
- Hardness by EPA 130.2
- Total Dissolved Solids by EPA 160.1
- Total Suspended Solids by EPA 160.2
- Anions (Nitrate, Chloride, and Sulfate) by EPA 300

1.2.4 Data Evaluation Procedure

The quality of this data has been evaluated following the "data verification" procedure included in the QAPP as Step 2 of the five-step USACE DQA process. The procedure was derived from the USACE "*Shell for Analytical Chemistry Requirements*" and considers the project DQOs, QC requirements of the analytical methods, and informed professional judgment of the evaluator. Qualified Jacobs' personnel, experienced in the evaluation of analytical data quality, performed data evaluation.

A brief description of the procedure followed in this evaluation is presented below.

Data Verification Procedure

At a minimum, the following data quality issues were addressed in this evaluation with respect to 100% of the sample data.

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.
- Review of field QC blank data to detect contamination from outside sources.
- Review of field QC duplicates to evaluate data reproducibility.
- Review of laboratory QC including laboratory blanks, spike recoveries, and duplicates.
- Verification of calibrations as summarized by the laboratory on the CLP-like reporting forms and within their case narratives.
- Qualification of unusable data as rejected and attachment of appropriate qualifiers to usable data.
- Presentation of data evaluation findings in terms of the data quality parameters precision, accuracy, representativeness, sensitivity and completeness.

Data quality parameters were evaluated as follows:

- Precision - by evaluation of Matrix Spike/Matrix Spike Duplicate (MS/MSD), laboratory duplicate, and field duplicate relative percent differences (RPD).
- Accuracy - by evaluation of surrogate (SUR), Laboratory Control Sample (LCS), and MS/MSD percent recoveries (%R).
- Representativeness - by evaluation of sample receipt records, technical holding times, and blank sample results (field and laboratory).
- Sensitivity - by evaluation of laboratory detection limits, reporting units, and the overall performance of the chosen methods.
- Completeness - by comparing the number of valid measurements obtained to the number of measurements planned for these samples.

1.2.5 Data Reporting Formats

1.2.5.1 Laboratory Data Packages and Analytical Results

The laboratory reported field sample and supporting QC data in a format consistent with the USEPA Contract Laboratory Program (CLP) data reporting requirements. This "CLP-like" format included most applicable report summary forms and was sufficient to complete Step 2 of the DQA process. In a few cases the raw quantitation reports had to be reviewed to evaluate dilutions, manual integrations, and to check for proper quantitation.

The supplied reports did include chromatograms and other raw data that are necessary to complete a third party validation of the DQA process for all parameters of interest. However, third party validation is not currently planned for the Acid Areas. Jacobs has supplied copies of the complete QA data packages and the associated primary sample data to Stratum Engineering to complete their assessment of the QA data and the Chemical Quality Assurance Report (CQAR).

The complete analytical data packages received from the project laboratories and evaluated in this review are available from Jacobs upon request through USACE Nashville.

1.2.5.2 Data Quality Non-Conformances

Data quality non-conformances identified as a result of this review are presented in Section 4.0, Data Quality Narratives. The data quality narratives are detailed explanations of the findings of this evaluation in terms of precision, accuracy, representativeness, sensitivity and completeness. They are intended to present a compilation of laboratory QC results found outside project acceptance criteria and provide an assessment of the potential impact those results had on the analytical data. Typically, the bulk of the project analytical protocol requirements are fulfilled and, therefore, are not summarized in the narratives.

Tabular presentations of the analytical sample results were included in the data deliverable. The respective laboratory test results tables were compiled into Data Summary Tables from the Electronic Data Deliverable (EDD) and were included with this report as Attachment 2. In addition, the validation qualifiers were applied to sample data to indicate data use limitations based on the findings of this evaluation.

2.0 DATA QUALIFIER DEFINITIONS

The following definitions provide explanations of the data qualifiers that may be assigned to results based on this evaluation. The data qualifier definitions are consistent with those used within the USEPA NFG referenced in Section 1.2.3 of this report.

U- The analyte was analyzed for but not detected (ND). The value preceding the U is the Contract Required Quantitation Limit (CRQL).

J- The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).

UJ- This flag is a combination of the U and J qualifiers. This indicates that the analyte is not present and the reported value is considered to be an estimated CRQL.

R- Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample.

N- There is presumptive evidence that the analyte is present, but it has not been confirmed. The analyte is tentatively identified. There is an indication that the reported analyte is present, however, all quality control requirements necessary for confirmation were not met.

3.0 DATA EVALUATION SUMMARY

3.1 OVERALL ASSESSMENT OF PROJECT DATA QUALITY

In general, QA/QC results associated with this data indicated that the data met "definitive data" standards and were of known quality. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site conditions at the time sampled.

Data reported are acceptable for the uses as intended with the required qualifications and limitations. The data users are urged to review the Data Quality Narratives and associated data qualifications before utilizing this data for decision-making.

Summary Of Required Data Qualifications

This section provides a summary of qualifiers applied to the data as a result of this evaluation. Attachment 2 includes tabular presentations of the analytical sample results with data qualifiers applied based on the findings of this evaluation. The data qualifier definitions applied during this review are presented in Section 2.0. Section 4.0, Data Quality Narratives, contains discussion of the evaluation findings along with an assessment of the impact on project data. Data qualified as estimated due to detection at a level below the laboratory quantitation limit but above the method detection limit were not included in this summary since they were not qualified due to QC non-conformance.

SDG E&E 0501263

1. For the VOC (method 8260B) analysis one of the seven trip blanks was overlooked at the lab and analyzed outside holding time. Sample PBOW-05-TB-042105-02 was analyzed 32 days past holding time. The reported non-detect VOC results for all analytes were qualified as rejected "R".

2. For the VOC (method 8260B) analysis the Continuing Calibration Verification (CCV) affecting two groundwaters and a trip blank had low biased recoveries for bromomethane, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the CCV outliers.

3. For the VOC (method 8260B) analysis the Continuing Calibration Verifications (CCV) affecting eleven groundwaters and four trip blanks had marginally low biased recoveries for bromomethane and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the CCV outliers.

4. For the VOC (method 8260B) analysis the Continuing Calibration Verification (CCV) affecting all six surface waters and one trip blank had marginally low biased recoveries for acetone, bromomethane, and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the CCV outliers.

5. For the VOC (method 8260B) analysis the LCS associated with three groundwater samples had marginally low biased recoveries for dichlorodifluoromethane and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as

estimated undetected "UJ" for the compounds due to the LCS outliers.

6. For the VOC (method 8260B) analysis the LCS associated with two groundwater samples and a trip blank had a marginally low biased recovery for 1,2,4-trichlorobenzene. The associated samples did not contain detects for the compound, and were qualified as estimated undetected "UJ" for the compound due to the LCS outliers.

7. For the VOC (method 8260B) analysis the LCS associated with four groundwater samples and two trip blanks had marginally low biased recoveries for bromomethane and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the LCS outliers.

8. For the VOC (method 8260B) analysis the LCS/LCSD associated with two groundwater samples and one trip blank had marginally low biased recoveries for bromomethane and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the LCS outliers.

9. For the VOC (method 8260B) analysis the LCS associated with all six surface waters and one trip blank had marginally low biased recoveries for acetone and chloromethane. The associated samples did not contain detects for the compounds, and were qualified as estimated undetected "UJ" for the compounds due to the LCS outliers.

10. For the VOC (method 8260B) analysis the MS/MSD performed on sample PBOW-05-GW-AA3-GW003-02A had marginally low biased recoveries for acetone, 1,2,4-trichlorobenzene, and vinyl chloride. The associated parent sample did not contain detects for the compounds. The acetone and 1,2,4-trichlorobenzene recoveries were within the sporadic marginal failure limits and not qualified based on the MS/MSD outlier. However, the 1,2,4-trichlorobenzene result was already qualified as "UJ" due to LCS and CCV outliers in the sample. The vinyl chloride non-detect result in the parent sample for the MS/MSD was qualified as estimated "UJ" due to the low biased recovery in the MS/MSD.

11. For the SVOC (method 8270C) analysis five samples were re-extracted and re-analyzed due to low acid surrogate recoveries (less than 10%). The re-extracts were performed four days past the holding time for two of the samples and five days past the holding time for three of the samples. The re-extracts for the two samples performed four days past the holding times were used to avoid rejection of the acid surrogates in the samples. All compounds in both re-analysis samples were qualified as estimated "J/UJ" for the low biased surrogates (>10% recovery) and the marginal holding time exceedances. The other three samples re-extracted past the holding time were not used.

12. For the SVOC (method 8270C) analysis seven groundwater samples had low biased acid surrogate recovery (>10%) of at least one acid surrogate compound. The acid compounds in the seven affected samples were all qualified as estimated "J/UJ" due to the low biased surrogate recovery.

13. For the SVOC (method 8270C) analysis seven groundwater samples had low biased acid surrogate recovery and low biased base-neutral surrogate recovery (>10%) of at least one acid and one base-neutral surrogate compound. All SVOC compounds in the seven affected samples were all qualified as estimated "J/UJ" due to the low biased surrogate recovery.

14. For the SVOC (method 8270C) analysis one groundwater sample had low biased acid surrogate recovery (<10%) of at least one acid surrogate compound. The acid compounds

in the affected sample were all qualified as rejected "J/R" due to the low biased surrogate recovery.

15. For the SVOC (method 8270C) analysis one groundwater samples had low biased acid surrogate recovery (<10%) and low biased base-neutral surrogate recovery (>10%) of at least one acid and one base-neutral surrogate compound. The acid compounds in the affected sample were all qualified as rejected "J/R", and the base-neutral compounds were qualified as estimated "J/UJ" due to the low biased surrogate recovery.

16. For the SVOC (method 8270C) analysis six surface water samples had low biased acid surrogate recovery (>10%) and low biased base-neutral surrogate recovery (>10%) of at least one acid and one base-neutral surrogate compound. All SVOC compounds in the affected samples were all qualified as estimated "J/UJ" due to the low biased surrogate recoveries.

17. For the SVOC (method 8270C) analysis one surface water sample had low biased acid surrogate recovery (>10%) of at least one acid surrogate compound. The acid compounds in the affected sample were all qualified as estimated "J/UJ" due to the low biased surrogate recoveries.

18. For the SVOC (method 8270C) analysis the LCS affecting four groundwater samples had low biased LCS recoveries for 16 compounds. Fourteen of the recoveries were >30% and the associated samples were qualified as estimated "UJ" for the non-detect results for the analytes. Two of the compounds had recoveries <30% and were qualified as rejected "R" in the associated samples for the non-detect results for the analytes.

19. For the SVOC (method 8270C) analysis the LCS affecting three groundwater samples had low biased LCS recoveries for 15 compounds. All fifteen of the recoveries were >30% and the associated samples were qualified as estimated "UJ" for the non-detect results for the analytes.

20. For the SVOC (method 8270C) analysis the LCS affecting two groundwater samples had low biased LCS recoveries for 12 compounds. Eleven of the recoveries were >30% and the associated samples were qualified as estimated "UJ" for the non-detect results for the analytes. One of the compounds had a recovery <30% and was qualified as rejected "R" in the associated samples for the non-detect results for the analytes.

21. For the SVOC (method 8270C) analysis the LCS affecting four groundwater samples and three surface water samples had low biased LCS recoveries for 15 compounds. All fifteen of the recoveries were >30% and the associated samples were qualified as estimated "UJ" for the non-detect results for the analytes.

22. For the SVOC (method 8270C) analysis the MS/MSD performed on sample PBOW-05-GW-AA3-GW003-02A had low biased recoveries for 14 compounds. All fourteen compounds were qualified as estimated "UJ" for the non-detect results for the analytes in the parent sample.

23. For the SVOC (method 8270C) analysis the MS/MSD performed on sample PBOW-05-SW-AA3-SW03-A had low biased recoveries for 11 compounds. All eleven compounds were qualified as estimated "UJ" for the non-detect results for the analytes in the parent sample.

24. For the SVOC (method 8270C) analysis the CCV associated with nine groundwater samples had marginally low biased percent differences for 5 compounds requiring estimation of the

data ("UJ" the non-detect results in all nine samples). One compound in the CCV was >30% difference and required rejection of the data for the analyte in all nine samples (2,4-dinitrophenol).

25. For the SVOC (method 8270C) analysis the CCV associated with three surface water samples had marginally low biased percent differences for one compound requiring estimation of the data ("UJ" the non-detect results in all nine samples).

26. For the nitroaromatic (method 8330) analysis of sample PBOW-05-GW-AA3-BED-GW001-02A the target analyte confirmation exceeded 40% RPD for 3-nitrotoluene. The detect for 3-nitrotoluene in the sample was qualified as estimated "J" to indicate the imprecise measurement.

27. For the nitroaromatic (method 8330) analysis of sample PBOW-05-GW-PB-BED-MW19 the target analyte confirmation exceeded 40% RPD for 3-nitrotoluene. The detect for 3-nitrotoluene in the sample was qualified as estimated "J" to indicate the imprecise measurement.

28. For the nitroaromatic (method 8330) analysis of sample PBOW-05-GW-AA2-BED-GW001-02A the target analyte confirmation exceeded 40% RPD for RDX, 1,3,5-trinitrobenzene, tetryl, and 3-nitrotoluene. The detects for the analytes in the sample were qualified as estimated "J" to indicate the imprecise measurement.

29. For the nitroaromatic (method 8330) analysis of sample PBOW-05-GW-AA2-GW002-02C the target analyte confirmation exceeded 40% RPD for RDX, and 3-nitrotoluene. The detects for the analytes in the sample were qualified as estimated "J" to indicate the imprecise measurement.

30. For the nitroaromatic (method 8330) analysis of samples PBOW-05-GW-AA2-GW002-02C and PBOW-05-GW-AA2-BEDGW001-02C the target analyte confirmations exceeded 40% RPD for RDX, and 3-nitrotoluene. The detects for the analytes in the samples were qualified as estimated "J" to indicate the imprecise measurement.

31. For the nitroaromatic (method 8330) analysis of sample PBOW-05-GW-AA3-GW003-02A the target analyte confirmation exceeded 40% RPD for 2-nitrotoluene and 3-nitrotoluene. The detects for the analytes in the sample were qualified as estimated "J" to indicate the imprecise measurement.

32. For the PCB (method 8082) analysis three groundwater samples and one surface water sample had marginally low recoveries for the surrogate decachlorobiphenyl (DCB). The other surrogate compound (TCMX) recovered within acceptable limits in all four of the samples. The non-detect results for all PCB analytes were qualified as estimated "UJ" in the four samples.

33. For the total (method 6010B) analysis the serial dilution performed on sample PBOW-05-SW-AA2-SW03-A had outliers for aluminum and sodium. The compounds were qualified as estimated ("J") in the parent sample.

34. For the total metals (method 6010B) analysis for sample PBOW-05-SW-AA2-SW01-A, the detect of lead was qualified as undetected "U" due to contamination in the ICB.

35. For the total metals (method 6010B) analysis the MS/MSD performed on sample PBOW-05-

GW-AA3-GW003-02A had marginally low biased recoveries for magnesium and sodium. The parent sample only was qualified estimated "J" for the detects of the compounds, because there were two other sets of MS/MSDs performed on the groundwater samples with acceptable recoveries.

36. For the Cyanide (method 9012A) analysis for sample PBOW-05-GW-AA2-GW002-02C, the detect of cyanide was qualified as undetected "U" due to contamination in the ICB.

37. For the Cyanide (method 9012A) analysis the MS/MSD performed on sample PBOW-05-GW-AA3-BED-GW001-02A had low biased recoveries for cyanide (17% and 44%). Another MS/MSD for cyanide was performed on PBOW-05-GW-AA2-GW002-02A with only marginally low cyanide recovery in the MS (73%). The cyanide non-detect result in sample PBOW-05-GW-AA3-BED-GW001-02A was qualified as rejected "R" due to the very low biased MS/MSD result. The cyanide non-detect result in sample PBOW-05-GW-AA2-GW002-02A was qualified as estimated "UJ" due to the marginally low biased MS/MSD result.

4.0 DATA QUALITY NARRATIVES

The findings of this data quality evaluation are presented below in terms of precision, accuracy, representativeness, sensitivity and completeness.

4.1 DATA PRECISION

4.1.1 Field QC Duplicate Precision Review

Project field duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

1. The metals field duplicate, PBOW-05-GW-AA3-GW002-02D, and parent sample, PBOW-05-GW-AA3-GW002-02D had an elevated RPD for zinc exceeding the 50% RPD criteria. The detects for zinc in both samples were qualified as estimated "J".

Affected Sample	Analyte	Field Dup RPD	Qualifier
PBOW-05-GW-AA3-GW002-02A PBOW-05-GW-AA3-GW002-02D	Zinc	131%	J detects in both samples

2. The metals field duplicate, PBOW-05-SW-AA3-SW03-D, and parent sample, PBOW-05-GW-AA3-SW03-A had an elevated RPD for several analytes as detailed in the table below. The detects for the compounds in both samples were qualified as estimated "J".

Affected Sample	Analyte	Field Dup RPD	Qualifier
PBOW-05-SW-AA3-SW03-A PBOW-05-SW-AA3-SW03-D	Iron Aluminum Manganese	71% 49% 113%	J detects in both samples

4.1.2 Laboratory Duplicate Precision Review

Project laboratory duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The Cyanide MS/MSD RPD for sample PBOW-05-GW-AA3-BEDGW001-02A was 89%, and exceeds the 20% RPD criteria. The non-detect cyanide result in the sample was already qualified as rejected "R" due to a low biased MS recovery. Multiple MS/MSDs were performed on the groundwater samples, so only the parent sample was qualified for the outlier.

Affected Sample	Analyte	MS/MSD RPD	Qualifier
PBOW-05-GW-AA3-BEDGW001-02A	Cyanide	89%	Already "R" due to MS recovery

2. The metals serial dilution performed on sample PBOW-05-SW-AA2-SW03-A had percent difference outliers for two compounds. The detects in the sample were qualified as estimated "J" to indicate the potential imprecise measurement.

Affected Samples	Analyte	Serial Dilution %D	Qualifier
PBOW-05-SW-AA2-SW03-A	Aluminum	53%	J
	Sodium	16%	J

4.2 DATA ACCURACY

4.2.1 Data Accuracy Indicators Review

Project accuracy indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The VOC Continuing Calibration Verification (CCV) associated with three groundwater samples had several high biased CCV outliers for VOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA3-GW002-02A	acetone	+54%	None – analytes ND with a high bias
PBOW-05-GW-AA3-GW002-02D	2-butanone	+40%	
PBOW-05-GW-AA3-BED-GW001-02A	2-hexanone	+21%	
	4-methyl-2-pentanone	+21%	
	1,2,3-trichlorobenzene	+36%	
	1,2,4-trichlorobenzene	+44%	

2. The VOC Continuing Calibration Verification (CCV) associated with two groundwater samples and a trip blank had several high biased and low biased CCV outliers for VOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA3-GW003-02A	acetone	+31%	None – analytes ND with a high bias
PBOW-05-GW-AA3-BED-GW002-02A	2-butanone	+40%	
PBOW-05-TB-042405-01	2-hexanone	+21%	
	bromomethane	-28%	UJ - Samples ND for the analytes
	1,2,3-trichlorobenzene	-46%	
	1,2,4-trichlorobenzene	-33%	

3. The VOC Continuing Calibration Verification (CCV) associated with five groundwater samples and a trip blank had two high biased and low biased CCV outliers for VOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA2-MKMW09-02A PBOW-05-GW-AA2-MKMW09-02D PBOW-05-GW-PB-BED-MW19 PBOW-05-GW-AA2-GW002-02A PBOW-05-TB-042505-02	1,2,3-trichlorobenzene	+41%	None – analytes ND with a high bias
	1,2,4-trichlorobenzene	+43%	
	bromomethane	-24%	UJ - Samples ND for the analytes
	chloromethane	-30%	

4. The VOC Continuing Calibration Verification (CCV) associated with four groundwater samples and two trip blanks had seven high biased and two low biased CCV outliers for VOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA2-GW002-02C PBOW-05-GW-AA3-GW005-02A PBOW-05-GW-AA2-BED-GW001-02C PBOW-05-GW-AA2-ITMW10-02A PBOW-05-TB-042705-01 PBOW-05-TB-042805-01	acetone	+51%	None – analytes ND with a high bias
	bromoform	+24%	
	2-butanone	+37%	
	methyl acetate	+24%	
	trichlorofluoromethane	+21%	
	1,2,3-trichlorobenzene	+32%	
	1,2,4-trichlorobenzene	+37%	
	bromomethane	-36%	UJ - Samples ND for the analytes
	chloromethane	-24%	

5. The VOC Continuing Calibration Verification (CCV) associated with two groundwater samples and one trip blank had four high biased and two low biased CCV outliers for VOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA3-GW004-02A PBOW-05-GW-AA3-BED-GW003-02A PBOW-05-TB-042905-01	acetone	+33%	None – analytes ND with a high bias
	bromoform	+20%	
	1,2,3-trichlorobenzene	+44%	
	1,2,4-trichlorobenzene	+46%	
	bromomethane	-33%	UJ - Samples ND for the analytes
	chloromethane	-32%	

6. The VOC Continuing Calibration Verification (CCV) associated with six surface water samples and one trip blank had six high biased and three low biased CCV outliers for VOC

target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-SW-AA3-SW03-D PBOW-05-SW-AA2-SW01-A PBOW-05-SW-AA2-SW02-A PBOW-05-SW-AA3-SW01-A PBOW-05-SW-AA3-SW02-A PBOW-05-SW-AA3-SW03-A PBOW-05-TB-042905-03	bromoform	+22%	None – analytes ND with a high bias
	2-butanone	+37%	
	carbon tetrachloride	+21%	
	1,2,3-trichlorobenzene	+63%	
	1,2,4-trichlorobenzene	+79%	
	trichlorofluoromethane	+20%	
	acetone	-29%	UJ - Samples ND for the analytes
	bromomethane	-25%	
	chloromethane	-33%	

7. The VOC LCS associated with three groundwater samples recovered high for four compounds and low for two compounds. The table below details the resulting qualification due to the LCS outliers.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA3-GW002-02A PBOW-05-GW-AA3-GW002-02D PBOW-05-GW-AA3-BED-GW001-02A	acetone	147	None – analytes ND with a high bias
	2-butanone	129	
	1,2-dibromo-3-chloropropane	122	
	4-methyl-2-pentanone	122	
	chloromethane	78	UJ - Samples ND for the analytes
	dichlorodifluoromethane	76	

8. The VOC LCS associated with two groundwater samples and a trip blank recovered high for three compounds and low for one compound. The table below details the resulting qualification due to the LCS outliers.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA3-GW003-02A PBOW-05-GW-AA3-BED-GW002-02A PBOW-05-TB-042505-01	acetone	124	None – analytes ND with a high bias
	chloromethane	128	
	2-hexanone	122	
	1,2,4-trichlorobenzene	70	UJ - Samples ND for the analytes

9. The VOC LCS associated with five groundwater samples and a trip blank recovered high for five compounds. The table below details the resulting qualification due to the LCS outliers.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA2-MKMW09-02A PBOW-05-GW-AA2-MKMW09-02D PBOW-05-GW-PB-BED-MW19 PBOW-05-GW-AA2-GW002-02A PBOW-05-GW-AA3-BED-GW001-02A PBOW-05-TB-042505-02	bromoform	122	None – analytes ND with a high bias
	dibromochloromethane	123	
	methyl acetate	122	
	1,2,4-trichlorobenzene	173	
	trichlorofluoromethane	123	

10. The VOC LCS associated with four groundwater samples and two trip blanks recovered high for five compounds and low for two compounds. The table below details the resulting qualification due to the LCS/LCSD outliers.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA2-GW002-02C PBOW-05-GW-AA3-GW005-02A PBOW-05-GW-AA2-BED-GW001-02C PBOW-05-GW-AA2-ITMW10-02A PBOW-05-GW-AA3-BED-GW001-02A PBOW-05-TB-042705-01 PBOW-05-TB-042805-01	bromoform	125	None – analytes ND with a high bias
	dibromochloromethane	125	
	methyl acetate	125	
	1,2,4-trichlorobenzene	138	
	trichlorofluoromethane	126	
	bromomethane	74	UJ - Samples ND for the analytes
	chloromethane	77	

11. The VOC LCS/LCSD associated with two groundwater samples and one trip blanks recovered high for five compounds and low for two compounds. The table below details the resulting qualification due to the LCS/LCSD outliers.

Affected Samples	Analyte	LCS/LCSD %R	Qual
PBOW-05-GW-AA3-GW004-02A PBOW-05-GW-AA3-BED-GW003-02A PBOW-05-TB-042905-01	acetone	129	None – analytes ND with a high bias
	bromoform	122/121	
	2-butanone	122	
	1,2,4-trichlorobenzene	134	
	trichlorofluoromethane	126	
	bromomethane	45	UJ - Samples ND for the analytes
	chloromethane	77/66	

12. The VOC LCS associated with six surface waters and one trip blank recovered high for two compounds and low for two compounds. The table below details the resulting qualification due to the LCS outliers.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-SW-AA3-SW03-D PBOW-05-SW-AA2-SW01-A PBOW-05-SW-AA2-SW02-A PBOW-05-SW-AA3-SW01-A PBOW-05-SW-AA3-SW02-A PBOW-05-SW-AA3-SW03-A PBOW-05-TB-042905-03	bromoform	125	None – analytes ND with a high bias
	1,2,4-trichlorobenzene	176	
	acetone	77	UJ - Samples ND for the analytes
	chloromethane	67	

13. For the VOC (method 8260B) analysis the MS/MSD performed on sample PBOW-05-GW-AA3-GW003-02A had marginally low biased recoveries for acetone, 1,2,4-trichlorobenzene, and vinyl chloride. The associated parent sample did not contain detects for the compounds. The acetone and 1,2,4-trichlorobenzene recoveries were within the sporadic marginal failure limits and not qualified based on the MS/MSD outlier. However, the 1,2,4-trichlorobenzene result was already qualified as "UJ" due to LCS and CCV outliers in the sample. The vinyl chloride non-detect result in the parent sample for the MS/MSD was qualified as estimated "UJ" due to the low biased recovery in the MS/MSD.

14. The SVOC Continuing Calibration Verification (CCV) associated with nine groundwater samples had six low biased CCV outliers for SVOC target analytes. The table below details the resulting qualification due to the CCV outliers.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA3-GW003-02A PBOW-05-GW-AA3-BEDGW002-02A PBOW-05-GW-AA2-MKMW09-02A PBOW-05-GW-AA2-MKMW09-02D PBOW-05-GW-PB-BED-MW19 PBOW-05-GW-AA2-GW002-02A PBOW-05-GW-AA2-BEDGW001-02A PBOW-05-GW-AA2-BEDGW001-02C PBOW-05-GW-AA2-GW002-02C	benzo(g,h,i)perylene	-22%	UJ - Samples ND for the analytes
	dibenz(a,h)anthracene	-21%	
	4,6-dinitro-2-methylphenol	-27%	
	2,4-dinitrophenol	-36%	
	hexachlorocyclopentadiene	-28%	
	Indeno-1,2,3-cd-pyrene	-24%	

15. The SVOC Continuing Calibration Verification (CCV) associated with three surface water samples had one low biased CCV outlier for SVOC target analytes. The table below details the resulting qualification due to the CCV outlier.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-SW-AA3-SW01-A PBOW-05-SW-AA3-SW02-A PBOW-05-SW-AA3-SW03-A	2,4-dinitrophenol	-21%	UJ - Samples ND for the analytes

16. The SVOC Continuing Calibration Verification (CCV) associated with two water samples had one low biased and one high biased CCV outlier for SVOC target analytes. The table below details the resulting qualification due to the CCV outlier.

Affected Samples	Analytes	CCV %D	Qualifier
PBOW-05-GW-AA3-BEDGW003-02ARE PBOW-05-SW-AA2-SW02-ARE	1,2-diphenylhydrazine	-23%	UJ - Samples ND for the analytes
	4-nitroaniline	+34%	None – analytes ND with a high bias

17. All samples analyzed for SVOCs had surrogate recovery outliers that were low biased. The following table summarizes the outliers and qualification assigned to the samples. The second table lists the extent of the outliers by surrogate. Note the prefix PBOW-05 common to all sample IDs was truncated to allow room for the table.

Affected Samples	Acid Surr <45%>10%	Acid Surr <10%	BN Surr <60%>10%	Qualifier
PBOW-05-GW-AA3-GW002-02A	3 of 3	none	none	J/UJ acids
PBOW-05-GW-AA3-GW002-02D	3 of 3	none	none	J/UJ acids
PBOW-05-GW-AA3-BEDGW001-02A	3 of 3	none	none	J/UJ acids
PBOW-05-GW-AA3-GW003-02A	3 of 3	none	none	J/UJ acids
PBOW-05-GW-AA3-BEDGW002-02A	3 of 3	none	1 of 3	J/UJ all
PBOW-05-GW-AA2-MKMW09-02A	2 of 3	none	2 of 3	J/UJ all
PBOW-05-GW-AA2-MKMW09-02D	2 of 3	none	1 of 3	J/UJ all
PBOW-05-GW-PB-BED-MW19	2 of 3	none	2 of 3	J/UJ all
PBOW-05-GW-AA2-GW002-02A	3 of 3	none	2 of 3	J/UJ all
PBOW-05-GW-AA2-BEDGW001-02A	2 of 3	none	2 of 3	J/UJ all
PBOW-05-GW-AA2-GW002-02C	2 of 3	none	none	J/UJ acids
PBOW-05-GW-AA2-BEDGW001-02C	2 of 3	none	none	J/UJ acids
PBOW-05-GW-AA2-ITMW10-02A	none	3 of 3	2 of 3	J/R acids / J/UJ BN
PBOW-05-GW-AA3-GW005-02A	3 of 3	none	none	UJ acids
PBOW-05-GW-AA3-GW004-02A	1 of 3	2 of 3	none	R acids
PBOW-05-GW-AA3-BEDGW003-02A	1 of 3	2 of 3	2 of 3	**Not used- see RA**
PBOW-05-GW-AA3-BEDGW003-02A RE	2 of 3	none	2 of 3	J/UJ all
PBOW-05-SW-AA3-SW03-D	2 of 3	none	1 of 3	J/UJ all
PBOW-05-SW-AA2-SW01-A	2 of 3	none	2 of 3	J/UJ all
PBOW-05-SW-AA2-SW02-A	2 of 3	1 of 3	1 of 3	**Not used- see RA**
PBOW-05-SW-AA2-SW02-A RE	2 of 3	none	1 of 3	J/UJ all
PBOW-05-SW-AA3-SW01-A	3 of 3	none	1 of 3	J/UJ all
PBOW-05-SW-AA3-SW02-A	2 of 3	none	1 of 3	J/UJ all
PBOW-05-SW-AA3-SW03-A	2 of 3	none	none	J/UJ acids
PBOW-05-SW-AA2-SW03-A	3 of 3	none	1 of 3	J/UJ all

	Acid Surrogates <45%			BN Surrogates <60%		
Affected Samples	**2-FP**	**PHL**	**TBP**	**NBZ**	**FBP**	**TPH**
GW-AA3-GW002-02A	22%	26%	29%			
GW-AA3-GW002-02D	17%	23%	21%			
GW-AA3-BEDGW001-02A	13%	14%	23%			
GW-AA3-GW003-02A	14%	15%	27%			
GW-AA3-BEDGW002-02A	18%	22%	30%		59%	
GW-AA2-MKMW09-02A	28%	21%		45%	40%	
GW-AA2-MKMW09-02D	38%	30%			57%	
GW-PB-BED-MW19	32%	24%		53%	48%	
GW-AA2-GW002-02A	26%	23%	39%	59%	52%	
GW-AA2-BEDGW001-02A	27%	23%		54%	52%	
GW-AA2-GW002-02C	43%	36%				
GW-AA2-BEDGW001-02C	44%	35%				
GW-AA2-ITMW10-02A	4%	9%	5%	55%	49%	
GW-AA3-GW005-02A	10%	17%	12%			
GW-AA3-GW004-02A	8%	14%	9%			
GW-AA3-BEDGW003-02A	3%	11%	5%	47%	45%	
GW-AA3-BEDGW003-02A RE	30%	23%		54%	56%	
SW-AA3-SW03-D	34%	28%			50%	
SW-AA2-SW01-A	28%	26%			47%	51%
SW-AA2-SW02-A	9%	16%	14%		51%	
SW-AA2-SW02-A RE	28%	25%			54%	
SW-AA3-SW01-A	24%	27%	26%		57%	
SW-AA3-SW02-A	35%	28%			50%	
SW-AA3-SW03-A	38%	31%				
SW-AA2-SW03-A	21%	25%	25%		58%	

	Lab Limits	QAPP Limits
2-FP = 2-Fluorophenol	(15-110)	(45-135)
PHL = Phenol-d6	(15-110)	(45-135)
NBZ = Nitrobenzene-d5	(30-110)	(60-120)
FBP = 2-Fluorobiphenyl	(35-110)	(60-120)
TBP = 2,4,6-Tribromophenol	(45-125)	(45-135)
TPH = Terphenyl-d14	(55-125)	(60-120)

18. The SVOC LCS associated with four groundwater samples recovered low for 21 analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA3-GW002-02A	bis(2-chloroethyl)ether	55	J/UJ
PBOW-05-GW-AA3-GW002-02A	4-bromophenyl-phenyl ether	59	J/UJ
PBOW-05-GW-AA3-BED-GW001-02A	2-chloronaphthalene	49	J/UJ
PBOW-05-GW-AA3-GW003-02A	2-chlorophenol	54	J/UJ
	1,2-dichlorobenzidine	33	J/UJ
	1,3-dichlorobenzidine	31	J/UJ
	1,4-dichlorobenzidine	32	J/UJ
	4,6-dinitro-2-methylphenol	59	J/UJ
	2,4-dinitrophenol	47	J/UJ
	hexachlorobutadiene	26	J/R
	hexachlorocyclopentadiene	20	J/R
	hexachloroethane	26	J/R
	2-methylnaphthalene	49	J/UJ
	2-methylphenol	58	J/UJ
	4-methylphenol	56	J/UJ
	naphthalene	43	J/UJ
	nitrobenzene	54	J/UJ
	4-nitrophenol	42	J/UJ
	n-nitroso-di-methylamine	34	J/UJ
	phenol	30	J/UJ
	1,2,4-trichlorobenzene	34	J/UJ

19. The SVOC LCS associated with three groundwater samples recovered low for 15 analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA2-MKMW09-02A	2-chlorophenol	59	J/UJ
PBOW-05-GW-AA2-MKMW09-02D	1,2-dichlorobenzidine	46	J/UJ
PBOW-05-GW-PB-BED-MW19	1,3-dichlorobenzidine	46	J/UJ
	1,4-dichlorobenzidine	45	J/UJ
	2,4-dinitrophenol	52	J/UJ
	hexachlorobutadiene	40	J/UJ
	hexachlorocyclopentadiene	29	J/UJ
	hexachloroethane	40	J/UJ
	2-methylnaphthalene	57	J/UJ
	naphthalene	52	J/UJ
	nitrobenzene	59	J/UJ
	4-nitrophenol	45	J/UJ
	n-nitroso-di-methylamine	38	J/UJ
	phenol	38	J/UJ
	1,2,4-trichlorobenzene	45	J/UJ

20. The SVOC LCS/LCSD associated with two groundwater samples recovered low for 11 analytes in the LCS and 12 analytes in the LCSD. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Qual
PBOW-05-GW-AA2-BEDGW001-02C PBOW-05-GW-AA2-GW002-02C	1,2-dichlorobenzidine	50 / 50	J/UJ
	1,3-dichlorobenzidine	47 / 46	J/UJ
	1,4-dichlorobenzidine	47 / 46	J/UJ
	2,4-dinitrophenol	46 / 57	J/UJ
	hexachlorobutadiene	36 / 38	J/UJ
	hexachlorocyclopentadiene	17 / 21	J/R
	hexachloroethane	37 / 38	J/UJ
	naphthalene	57 / 57	J/UJ
	4-nitrophenol	43 / 50	J/UJ
	n-nitroso-di-methylamine	50 / 47	J/UJ
	phenol	44 in LCSD	J/UJ
	1,2,4-trichlorobenzene	50 / 52	J/UJ

21. The SVOC LCS associated with four groundwater samples and three surface water samples recovered low for 15 analytes. The analytes were not detected in the associated samples and qualified as indicated in the table below.

Affected Samples	Analyte	LCS %R	Qual
PBOW-05-GW-AA2-ITMW10-02A PBOW-05-GW-AA3-GW005-02A PBOW-05-GW-AA3-GW004-02A PBOW-05-GW-AA3-BEDGW003-02A PBOW-05-SW-AA3-SW03-D PBOW-05-SW-AA2-SW01-A PBOW-05-SW-AA2-SW02-A	2-chlorophenol	57	J/UJ
	1,2-dichlorobenzidine	48	J/UJ
	1,3-dichlorobenzidine	44	J/UJ
	1,4-dichlorobenzidine	47	J/UJ
	hexachlorobutadiene	38	J/UJ
	hexachlorocyclopentadiene	44	J/UJ
	hexachloroethane	40	J/UJ
	2-methylnaphthalene	54	J/UJ
	4-methylphenol	51	J/UJ
	naphthalene	42	J/UJ
	nitrobenzene	54	J/UJ
	4-nitrophenol	47	J/UJ
	n-nitroso-di-methylamine	40	J/UJ
	phenol	37	J/UJ
	1,2,4-trichlorobenzene	45	J/UJ

22. The SVOC MS/MSD performed on sample PBOW-05-GW-AA3-GW003-02A recovered low for 14 analytes in the MS/MSD. The analytes were not detected in the parent sample and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Qual
PBOW-05-GW-AA3-GW003-02A	2-chlorophenol	25 / 22	J/UJ
	2,4-dichlorophenol	25 / 22	J/UJ
	4,6-dinitro-2-methylphenol	13 / 13	J/UJ
	2,4-dinitrophenol	14 / 14	J/UJ
	hexachlorobutadiene	44 / 41	J/UJ
	hexachlorocyclopentadiene	27 / 30	J/UJ
	hexachloroethane	43 / 41	J/UJ
	2-nitrophenol	22 / 18	J/UJ
	4-nitrophenol	9 / 9	J/UJ
	n-nitroso-di-methylamine	39 / 38	J/UJ
	pentachlorophenol	16 / 14	J/UJ
	phenol	17 / 16	J/UJ
	2,4,5-trichlorophenol	20 / 19	J/UJ
	2,4,6-trichlorophenol	16 / 16	J/UJ

23. The SVOC MS/MSD performed on sample PBOW-05-SW-AA3-SW03-A recovered low for 11 analytes in the MS/MSD. The analytes were not detected in the parent sample and qualified as indicated in the table below.

Affected Samples	Analyte	LCS/LCSD %R	Qual
PBOW-05-SW-AA3-SW03-A	2-chlorophenol	39 / 42	J/UJ
	2,4-dichlorophenol	37 / 41	J/UJ
	4,6-dinitro-2-methylphenol	12 / 19	J/UJ
	2,4-dinitrophenol	10 / 14	J/UJ
	2-nitrophenol	33 / 9	J/UJ
	4-nitrophenol	9 / 40	J/UJ
	n-nitroso-di-methylamine	38 / 7	J/UJ
	pentachlorophenol	11 / 20	J/UJ
	phenol	33 / 32	J/UJ
	2,4,5-trichlorophenol	30 / 39	J/UJ
	2,4,6-trichlorophenol	19 / 26	J/UJ

24. The PCB surrogate recoveries for three groundwater samples and one surface water sample were marginally low for DCB, one of the two surrogates. The other surrogate (TCMX) had acceptable recoveries in all four of the samples indicating a potential matrix interference. The non-detect results for all PCB aroclors in the four samples were qualified as estimated "UJ" to indicate the potential low bias.

Affected Samples	Surrogate	Surrogate %R	Qualifier
PBOW-05-GW-AA2-GW002-02A	DCB	38%	UJ
PBOW-05-GW-AA2-GW002-02C	DCB	32%	UJ
PBOW-05-GW-AA2-BEDGW001-02C	DCB	21%	UJ
PBOW-05-SW-AA2-SW01-A	DCB	35%	UJ

25. The total metals MS/MSD analysis performed on sample PBOW-05-GW-AA3-GW003-02A recovered marginally low for magnesium and sodium. Because multiple MS/MSDs were performed on the groundwater samples, only the parent sample was qualified for the outliers. The affected sample and qualifications are indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-GW003-02A	Magnesium	62% / 72%	J detect
	Sodium	70 in MS	J detect

26. The cyanide MS/MSD performed on sample PBOW-05-GW-AA3-BEDGW001-02A recovered low. Because multiple MS/MSDs were performed on the groundwater samples, only the parent sample was qualified for the outliers. The affected sample and qualification is indicated below.

Affected Samples	Analyte	MS/MSD %R	Qualifier
PBOW-05-GW-AA3-BEDGW001-02A	Cyanide	16.8% / 44%	R non-detect

27. The Cyanide MS/MSD analysis performed on sample PBOW-05-GW-AA2-GW002-02A recovered marginally low in the MSD. Because multiple MS/MSDs were performed on the groundwater samples, only the parent sample was qualified for the outliers. The affected sample and qualification is indicated below.

Affected Samples	Analyte	MSD %R	Qualifier
PBOW-05-GW-AA2-GW002-02A	Cyanide	73%	UJ non-detect

4.3 DATA REPRESENTATIVENESS

4.3.1 Sample Custody/Handling Documentation Review

The project samples were received at the laboratory adequately preserved, chilled within the required range of 4 ± 2 degrees Celsius, in good condition, and with required custody documentation in order without exception.

4.3.2 Sample Holding Time Review

QC data indicated requirements for holding times were met for each sample analysis, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Findings:

1. The PCB extraction holding times for three groundwater samples were exceeded by less than a day. Since the holding time was not grossly exceeded, the results were estimated. The non-detect results for the PCB analytes were all qualified as "UJ" to indicate the marginal holding time exceedance for samples PBOW-05-GW-AA3-GW002-02A, PBOW-05-GW-AA3-GW002-02D, and PBOW-05-GW-AA3-BED-GW001-02A.

2. The VOC analysis holding time was grossly exceeded for one of the seven trip blanks. The sample was overlooked by the lab and not analyzed until 32 days past the holding time. The VOC results for trip blank sample PBOW-05-TB-042105-02 were rejected "R" for all VOC analytes.

3. Five SVOC samples were re-extracted due to poor acid surrogate recoveries. Three of the samples were re-extracted four days past the holding time, and the other two samples were re-extracted five days past the holding time. The results for three of the samples were not used, as the original analyses were used. Two of the re-extracted samples were used because the surrogate recoveries were improved over the original analyses. Since the holding times were not grossly exceeded all analytes in the two samples used were qualified as estimated ("J" for detects and "UJ" for non-detects). The table below details the outliers and qualification.

Affected Samples	Analytes	HT outlier	Qualifier
PBOW-05-GW-AA2-ITMW10-02A-RE	All SVOCs	5 days over	Used original analysis
PBOW-05-GW-AA3-GW005-02A-RE	All SVOCs	5 days over	Used original analysis
PBOW-05-GW-AA3-GW004-02A-RE	All SVOCs	4 days over	Used original analysis
PBOW-05-GW-AA3-BEDGW003-02A-RE	All SVOCs	4 days over	All SVOC analytes J/UJ
PBOW-05-SW-AA2-SW02-A	All SVOCs	4 days over	All SVOC analytes J/UJ

4.3.3 Blank Sample Results Review

QC data indicated requirements for blank sample results were met for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Specific Finding:

1. The metals ICB associated with sample PBOW-05-SW-AA2-SW01-A contained a trace level lead detect that resulted in the sample result for lead being qualified as "U".

2. Thallium was detected in the preparation blank and a CCB at 3.6 and 3.1 mg/L respectively. However, none of the associated samples had detects for Thallium within five times the blank value. No qualification was necessary.

3. The cyanide ICB associated with sample PBOW-05-GW-AA2-GW002-02C contained a cyanide detect at 18.5 mg/L that resulted in the sample result for cyanide being qualified as

undetected "U".

4.4 DATA SENSITIVITY

None of the samples included in this evaluation had high analyte concentrations and/or interferences forcing an initial sample dilution to be performed. Therefore, non-detect sample data are not impacted by a decrease in sensitivity and elevated detection limits that accompany diluted samples. The laboratory reported target analytes to the Method Detection Level (MDL) to achieve maximum sensitivity and to meet as many of the Region IX preliminary remediation goals and data quality objectives detailed in the project QAPP as possible. Analytes detected above the MDL but below the Method Reporting Limit (MRL) are "J" qualified to indicate the result is estimated and does have less certainty than a result greater than the MRL.

4.5 DATA COMPLETENESS

No data were rejected for the PCB, nitroaromatics, or metals analyses. These analyses had 100% completeness for all analytes. Evaluation of this data set did result in the rejection of all VOC analytes in one trip blank due to a holding time exceedance. The overall VOC completeness for all analytes is 96%, and 100% for non QA/QC samples. One cyanide result was rejected due to a low biased spike recovery. The cyanide completeness calculates to 93.75%. Several SVOC analytes were rejected in samples due to low biased surrogate and LCS recoveries. The following table details the percent completeness for any SVOC analyte that was not 100%.

SVOC Analyte	Completeness %
2,4-dinitrophenol	47.8
hexachlorocyclopentadiene	73.9
hexachloroethane	82.6
2,4,5-trichlorophenol	91.3
2,4,6-trichlorophenol	91.3
2,4-dichlorophenol	91.3
2,4-dimethylphenol	91.3
2-chlorophenol	91.3
2-methylphenol	91.3
2-nitrophenol	91.3
3-methylphenol	91.3
4,6-dinitro-2-methylphenol	91.3
4-chloro-3-methylphenol	91.3
4-methylphenol	91.3
4-nitrophenol	91.3
benzoic acid	91.3
pentachlorophenol	91.3
phenol	91.3

None of the three compounds failing the project completeness goals were detected in any of the samples, nor are the compounds expected to be contaminants of concern at the site. Overall the data were found to be complete and acceptable for the intended data usages as qualified.

ATTACHMENT 1

SAMPLE INFORMATION TABLES

Plum Brook Acid Areas 2 and 3 Round 2 Groundwater and Surface Water Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
4/21/05	15:45	AA3-BEDGW-001	PBOW-05-GW-AA3-BED-GW001-02	0504186-03	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/21/05	15:15	AA3-GW-002	PBOW-05-GW-AA3-GW002-02A	0504186-01	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/21/05	15:15	AA3-GW-002	PBOW-05-GW-AA3-GW002-02D	0504186-02	FD1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012
4/21/05	17:00	FIELDQC	PBOW-05-TB-042105-02	0504186-04WQ	TB1	plumbrookw002b	SW8260
4/24/05	13:30	AA3-GW-003	PBOW-05-GW-AA3-GW003-02A	0504204-01	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/24/05	17:10	FIELDQC	PBOW-05-TB-042405-01	0504204-03WQ	TB1	plumbrookw002b	SW8260
4/25/05	11:15	AA3-BEDGW-002	PBOW-05-GW-AA3-BEDGW002-02A	0504204-02	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/25/05	15:15	MK-MW09	PBOW-05-GW-AA2-MKMW09-02A	0504216-01	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/25/05	15:15	MK-MW09	PBOW-05-GW-AA2-MKMW09-02D	0504216-02	FD1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012
4/25/05	13:00	PB-BED-MW19	PBOW-05-GW-PB-BED-MW19	0504216-03	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/25/05	10:00	FIELDQC	PBOW-05-TB-042505-02	0504216-04WQ	TB1	plumbrookw002b	SW8260
4/26/05	15:30	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-02A	0504216-06	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/26/05	15:15	AA2-GW-002	PBOW-05-GW-AA2-GW002-02A	0504216-05	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9060
4/27/05	14:15	AA2-BEDGW-001	PBOW-05-GW-AA2-BEDGW001-02C	0504232-02	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012
4/27/05	13:40	AA2-GW-002	PBOW-05-GW-AA2-GW002-02C	0504232-01	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012
4/27/05	11:58	FIELDQC	PBOW-05-TB-042705-01	0504232-03WQ	TB1	plumbrookw002b	SW8260
4/28/05	12:00	AA3-GW-005	PBOW-05-GW-AA3-GW005-02A	0504248-03	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/28/05	10:30	IT-MW10	PBOW-05-GW-AA2-ITMW10-02A	0504248-02	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/28/05	10:00	FIELDQC	PBOW-05-TB-042805-01	0504248-01WQ	TB1	plumbrookw002b	SW8260
4/29/05	12:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDGW003-02A	0504263-02	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8330, SW9012, SW9060
4/29/05	12:00	AA3-BEDGW-003	PBOW-05-GW-AA3-BEDGW003-02A	0504263-02RE	N1	plumbrookw002b	SW8270
4/29/05	9:45	AA3-GW-004	PBOW-05-GW-AA3-GW004-02A	0504263-01	N1	plumbrookw002b	E160.1, E160.2, E180.1, E200.7, E300, E310.1, SW6010, SW7470, SW8082, SW8260, SW8270, SW8330, SW9012, SW9060
4/29/05	10:50	FIELDQC	PBOW-05-TB-042905-01	0504263-03WQ	TB1	plumbrookw002b	SW8260
4/29/05	10:00	FIELDQC	PBOW-05-TB-042905-03	0505004-07WQ	TB1	plumbrookw002b	SW8260
4/29/05	16:10	AA2-SWSD-01	PBOW-05-SW-AA2-SW01-A	0505004-02	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330
4/29/05	15:50	AA2-SWSD-02	PBOW-05-SW-AA2-SW02-A	0505004-03	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8330
4/29/05	15:50	AA2-SWSD-02	PBOW-05-SW-AA2-SW02-A	0505004-03RE	N1	plumbrookw002b	SW8270
4/29/05	15:05	AA2-SWSD-03	PBOW-05-SW-AA2-SW03-A	0505004-08	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330
4/29/05	13:35	AA3-SWSD-01	PBOW-05-SW-AA3-SW01-A	0505004-04	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330

Plum Brook Acid Areas 2 and 3 Round 2 Groundwater and Surface Water Sample Tracking Report

Sample Date	Sample Time	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
4/29/05	13:10	AA3-SWSD-02	PBOW-05-SW-AA3-SW02-A	0505004-05	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330
4/29/05	11:40	AA3-SWSD-03	PBOW-05-SW-AA3-SW03-A	0505004-06	N1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330
4/29/05	11:40	AA3-SWSD-03	PBOW-05-SW-AA3-SW03-D	0505004-01	FD1	plumbrookw002b	SW6010, SW7470, SW8082, SW8260, SW8270, SW8330
4/30/05	13:00	AA2-GW-002	PBOW-05-GW-AA2-GW002-02-A	0505004-09	N1	plumbrookw002b	SW9012

ATTACHMENT 2

TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Qualifier Definitions:

=	result is greater than reporting limit;
TR	result is greater than detection limit, but less than reporting limit;
J	result is estimated;
BJ	result is estimated, compound detected in associated blank;
U	non-detect;
UJ	estimated non-detect;
R	result is rejected, data is unusable.

The value associated with the "ND/U" flag is the detection limit.

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-02A 4/26/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDGW001-02C 4/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-02A 4/26/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L	568/=		270/=
E300	Chloride (as Cl)	mg/L	36.1/=		4.4/=
SW9012	Cyanide	ug/L	5 ND/U	5 ND/U	
E200.7	Hardness (as CACO3)	mg/L	446/=		353/=
E300	Nitrogen, Nitrate (as N)	mg/L	0.025 ND/U		0.067/=
E300	Sulfate (as SO4)	mg/L	17.3/=		86.8/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4 ND/U		4 ND/U
E160.1	Total Dissolved Solids	mg/L	701/=		414/=
SW9060	Total Organic Carbon	mg/L	0.97/TP/J		3.3/=
E180.1	Turbidity	NTU	54.7/=		2.3/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.16/TR/J	0.094 ND/U	0.084 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.077 ND/U	0.094 ND/U	0.084 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.077 ND/U	0.094 ND/U	0.084 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.1 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.1 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.12 ND/U	0.14 ND/U	0.13 ND/U
SW8330	2-Nitrotoluene	ug/L	0.077 ND/U	0.094 ND/U	0.084 ND/U
SW8330	3-Nitrotoluene	ug/L	0.14/TR/J	0.42/TR/J	0.084 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.077 ND/U	0.094 ND/U	0.084 ND/U
SW8330	4-Nitrotoluene	ug/L	0.12 ND/U	0.14 ND/U	0.13 ND/U
SW8330	HMX	ug/L	0.077 ND/U	0.094 ND/U	0.084 ND/U
SW8330	Nitrobenzene	ug/L	0.085 ND/U	0.1 ND/U	0.092 ND/U
SW8330	RDX	ug/L	0.14/TR/J	0.15/TR/J	0.084 ND/U
SW8330	Tetryl	ug/L	0.088/TR/J	0.094 ND/U	0.084 ND/U
	Metals				
SW6010	Aluminum	ug/L	103/TR/J	100 ND/U	128/TR/J
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	251/=	5 ND/U	22.6/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	92100/=	500 ND/U	96600/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	4 ND/U
SW6010	Iron	ug/L	80.1/TR/J	35/TR/J	36.6/TR/J
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	52500/=	500 ND/U	27100/=

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-02A 4/26/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDGW001-02C 4/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-02A 4/26/2005 RESULT / QUAL
SW6010	Manganese	ug/L	105/=	3 ND/U	3 ND/U
SW7470	Mercury (total)	ug/L	0.08 ND/U	0.091/TR/J	0.08 ND/U
SW6010	Nickel	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Potassium	ug/L	26500/=	500 ND/U	500 ND/U
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	82000/=	500 ND/U	10900/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	8.1/TR/J	5 ND/U	15.5/TR/J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 ND/U	0.13 ND/UJ	0.13 ND/UJ
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	1,3-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	ND/R	ND/R	ND/R
SW8270	2,4-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2,6-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2-Chloronaphthalene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2-Chlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	2-Nitrophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	3-Methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-02A 4/26/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDGW001-02C 4/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-02A 4/26/2005 RESULT / QUAL
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	4-Nitrophenol	ug/L	5.1 ND/UJ	5.2 ND/UJ	5.1 ND/UJ
SW8270	Acenaphthene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Acenaphthylene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Anthracene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzo(a)anthracene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzo(a)pyrene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzo(b)fluoranthene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzoic acid	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Benzyl butyl phthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Carbazole	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Chrysene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Di-n-butylphthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Di-n-octylphthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Dibenzofuran	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Diethylphthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Dimethylphthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Fluoranthene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Fluorene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Hexachlorobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Hexachlorobutadiene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	ND/UR	1 ND/UJ	1 ND/UJ
SW8270	Hexachloroethane	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Isophorone	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.82 ND/UJ	0.83 ND/U	0.82 ND/UJ
SW8270	N-Nitrosodimethylamine	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Naphthalene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Nitrobenzene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA2-BEDGW001-02A 4/26/2005 RESULT / QUAL	PBOW-05-GW-AA2-BEDGW001-02C 4/27/2005 RESULT / QUAL	PBOW-05-GW-AA2-GW002-02A 4/26/2005 RESULT / QUAL
SW8270	Pentachlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Phenanthrene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	Phenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Pyrene	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1 ND/UJ	1 ND/U	1 ND/UJ
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/U	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	1.6/=	0.2 ND/U	0.2 ND/U
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	7.8/=	5.6/=	0.3 ND/U

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SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	1.4/=	0.81/TR/J	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.54/TR/J	0.29/TR/J	0.2 ND/U
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	4/=	3.2/=	0.2 ND/U
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.2 ND/U	0.27/TR/J	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	0.32/TR/J	7.2/=	0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	11/=	6.7/=	0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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	Wet Chemistry				
SW9012	Cyanide	ug/L	5 ND/UJ	5 ND/U	
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.094 ND/U		0.09 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.094 ND/U		0.09 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.094 ND/U		0.09 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 ND/U		0.12 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 ND/U		0.12 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 ND/U		0.13 ND/U
SW8330	2-Nitrotoluene	ug/L	0.094 ND/U		0.09 ND/U
SW8330	3-Nitrotoluene	ug/L	0.14/TR/J		0.09 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.094 ND/U		0.09 ND/U
SW8330	4-Nitrotoluene	ug/L	0.14 ND/U		0.13 ND/U
SW8330	HMX	ug/L	0.094 ND/U		0.09 ND/U
SW8330	Nitrobenzene	ug/L	0.1 ND/U		0.098 ND/U
SW8330	RDX	ug/L	0.14/TR/J		0.09 ND/U
SW8330	Tetryl	ug/L	0.094 ND/U		0.09 ND/U
	Metals				
SW6010	Aluminum	ug/L	100 ND/U		7670/=
SW6010	Antimony	ug/L	5 ND/U		5 ND/U
SW6010	Arsenic	ug/L	3 ND/U		3.2/TR/J
SW6010	Barium	ug/L	5 ND/U		60.3/TR/J
SW6010	Beryllium	ug/L	1 ND/U		1 ND/U
SW6010	Cadmium	ug/L	1 ND/U		1 ND/U
SW6010	Calcium	ug/L	500 ND/U		47800/=
SW6010	Chromium	ug/L	2 ND/U		8.2/TR/J
SW6010	Cobalt	ug/L	3 ND/U		3 ND/U
SW6010	Copper	ug/L	4 ND/U		7.3/TR/J
SW6010	Iron	ug/L	30 ND/U		8250/=
SW6010	Lead	ug/L	1.5 ND/U		1.5 ND/U
SW6010	Magnesium	ug/L	500 ND/U		12400/=
SW6010	Manganese	ug/L	3 ND/U		79/=
SW7470	Mercury (total)	ug/L	0.08 ND/U		0.08 ND/U
SW6010	Nickel	ug/L	3 ND/U		9/TR/J
SW6010	Potassium	ug/L	500 ND/U		4880/=
SW6010	Selenium	ug/L	3 ND/U		3 ND/U
SW6010	Silver	ug/L	1 ND/U		1 ND/U
SW6010	Sodium	ug/L	500 ND/U		2440/=
SW6010	Thallium	ug/L	3 ND/U		3 ND/U
SW6010	Vanadium	ug/L	3 ND/U		15.4/TR/J

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SW6010	Zinc	ug/L	5 ND/U		36.7/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 ND/UJ		0.13 ND/UJ
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 ND/UJ		0.13 ND/UJ
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1.1 ND/U		1 ND/UJ
SW8270	1,3-Dichlorobenzene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	ND/R		10 ND/UJ
SW8270	2,4-Dinitrotoluene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	2,6-Dinitrotoluene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	2-Chloronaphthalene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	2-Chlorophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1.1 ND/U		1 ND/UJ
SW8270	2-Nitrophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1.1 ND/U		1 ND/UJ
SW8270	3-Methylphenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1.1 ND/U		1 ND/UJ
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1.1 ND/U		1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1.1 ND/U		1 ND/UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1.1 ND/U		1 ND/UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1.1 ND/U		1 ND/UJ
SW8270	4-Nitrophenol	ug/L	5.3 ND/UJ		5.2 ND/UJ
SW8270	Acenaphthene	ug/L	1.1 ND/U		1 ND/UJ

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SW8270	Acenaphthylene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Anthracene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzo(a)anthracene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzo(a)pyrene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzo(b)fluoranthene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Benzo(k)fluoranthene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzoic acid	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Benzyl butyl phthalate	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Carbazole	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Chrysene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Di-n-butylphthalate	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Di-n-octylphthalate	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Dibenzofuran	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Diethylphthalate	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Dimethylphthalate	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Fluoranthene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Fluorene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Hexachlorobenzene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Hexachlorobutadiene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	ND/R		1 ND/UJ
SW8270	Hexachloroethane	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Isophorone	ug/L	1.1 ND/U		1 ND/UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.85 ND/U		0.83 ND/UJ
SW8270	N-Nitrosodimethylamine	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Naphthalene	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Nitrobenzene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Pentachlorophenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Phenanthrene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	Phenol	ug/L	1.1 ND/UJ		1 ND/UJ
SW8270	Pyrene	ug/L	1.1 ND/U		1 ND/UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1.1 ND/U		1 ND/UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1.1 ND/U		1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1.1 ND/U		1 ND/UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1.1 ND/U		1 ND/UJ
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U		0.3 ND/U

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SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U		0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U		0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.21/TR/J		0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U		4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U		1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U		1 ND/U
SW8260	Acetone	ug/L	2 ND/U		2 ND/UJ
SW8260	Benzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Bromochloromethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/UJ		0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/UJ		0.4 ND/UJ
SW8260	Cyclohexane	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Dibromochloromethane	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U		0.4 ND/U
SW8260	Ethylbenzene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Methyl Acetate	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Methylcyclohexane	ug/L	0.22/TR/J		0.2 ND/U
SW8260	Methylene Chloride	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Styrene	ug/L	0.21/TR/J		0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U		0.3 ND/U

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SW8260	Toluene	ug/L	5.1/=		0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U		0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U		0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U		0.5 ND/U
SW8260	Xylenes, Total	ug/L	0.27/TR/J		0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U		0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U		0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U		0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U		0.2 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-SW-AA2-SW02-A 4/29/2005 RESULT / QUAL	PBOW-05-SW-AA2-SW03-A 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA3-BED-GW001-02 4/21/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L			725/=
E300	Chloride (as Cl)	mg/L			283/=
SW9012	Cyanide	ug/L			ND/R
E200.7	Hardness (as CACO3)	mg/L			556/=
E300	Nitrogen, Nitrate (as N)	mg/L			0.025 ND/U
E300	Sulfate (as SO4)	mg/L			0.25 ND/U
E160.2	Suspended Solids (residue, Non-filterable)	mg/L			4.8/=
E160.1	Total Dissolved Solids	mg/L			1220/=
SW9060	Total Organic Carbon	mg/L			0.91/TR/J
E180.1	Turbidity	NTU			46.7/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.11 ND/U	0.13 ND/U	0.12 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.11 ND/U	0.13 ND/U	0.12 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.13 ND/U	0.15 ND/U	0.14 ND/U
SW8330	2-Nitrotoluene	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	3-Nitrotoluene	ug/L	0.086 ND/U	0.098 ND/U	0.43/TR/J
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	4-Nitrotoluene	ug/L	0.13 ND/U	0.15 ND/U	0.14 ND/U
SW8330	HMX	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	Nitrobenzene	ug/L	0.095 ND/U	0.11 ND/U	0.1 ND/U
SW8330	RDX	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
SW8330	Tetryl	ug/L	0.086 ND/U	0.098 ND/U	0.09 ND/U
	Metals				
SW6010	Aluminum	ug/L	1220/=	666/=	100 ND/U
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	32.9/TR/J	32.4/TR/J	74.1/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	105000/=	94100/=	113000/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	4 ND/U
SW6010	Iron	ug/L	1220/=	725/=	30 ND/U
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	19400/=	20700/=	66900/=

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SW6010	Manganese	ug/L	15.6/=	15.5/=	12.4/TR/J
SW7470	Mercury (total)	ug/L	0.08 ND/U	0.08 ND/U	0.08 ND/U
SW6010	Nickel	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Potassium	ug/L	1740/TR/J	1780/TR/J	41000/=
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	3080/=	3120/=	234000/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	5.3/TR/J	6.6/TR/J	5 ND/U
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/UJ
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	1,3-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	10 ND/UJ	10 ND/UJ	10 ND/UJ
SW8270	2,4-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,6-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Chloronaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Chlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Nitrophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	3-Methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U

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SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Nitrophenol	ug/L	5.2 ND/UJ	5.1 ND/UJ	5.1 ND/UJ
SW8270	Acenaphthene	ug/L	0.53 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Acenaphthylene	ug/L	0.48 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Anthracene	ug/L	0.27 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(a)anthracene	ug/L	0.2 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(a)pyrene	ug/L	0.31 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(b)fluoranthene	ug/L	0.3 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(g,h,i)perylene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(k)fluoranthene	ug/L	0.47 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzoic acid	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzyl butyl phthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Carbazole	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Chrysene	ug/L	0.52 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Di-n-butylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Di-n-octylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Dibenz(a,h)anthracene	ug/L	0.84 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Dibenzofuran	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Diethylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Dimethylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Fluoranthene	ug/L	0.23 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Fluorene	ug/L	0.49 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Hexachlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Hexachlorobutadiene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	1 ND/UJ	1 ND/UJ	ND/UR
SW8270	Hexachloroethane	ug/L	1 ND/UJ	1 ND/UJ	ND/UR
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	0.66 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Isophorone	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	N-Nitroso-di-n-propylamine	ug/L	1 ND/UJ	0.82 ND/UJ	0.82 ND/U
SW8270	N-Nitrosodimethylamine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Naphthalene	ug/L	0.52 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Nitrobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ

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SW8270	Pentachlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Phenanthrene	ug/L	0.36 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Phenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Pyrene	ug/L	0.34 ND/UJ	1 ND/UJ	1 ND/U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/UJ	2 ND/UJ	2 ND/U
SW8260	Benzene	ug/L	0.2 ND/U	0.2 ND/U	3.3/=
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/U
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/U
SW8260	Cyclohexane	ug/L	0.3 ND/U	0.3 ND/U	60/=

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SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/UJ
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	1.7/=
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U	0.2 ND/U	0.6/TR/J
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	0.2 ND/U	0.2 ND/U	23/=
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.5/TR/J
SW8260	Toluene	ug/L	0.2 ND/U	0.2 ND/U	4.4/=
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	0.2 ND/U	0.2 ND/U	11/=
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L	338/=		536/=
E300	Chloride (as Cl)	mg/L	14.3/=		129/=
SW9012	Cyanide	ug/L	5 ND/U		5 ND/U
E200.7	Hardness (as CACO3)	mg/L	270/=		319/=
E300	Nitrogen, Nitrate (as N)	mg/L	0.025 ND/U		0.025 ND/U
E300	Sulfate (as SO4)	mg/L	5.4/=		2.7/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4 ND/U		4 ND/U
E160.1	Total Dissolved Solids	mg/L	370/=		782/=
SW9060	Total Organic Carbon	mg/L	1.7/TR/J		1.7/TR/J
E180.1	Turbidity	NTU	5/=		50/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.096 ND/U	0.16 ND/U	0.096 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.096 ND/U	0.11 ND/U	0.096 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.096 ND/U	0.16 ND/U	0.096 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 ND/U	0.16 ND/U	0.12 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 ND/U	0.16 ND/U	0.12 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 ND/U	0.16 ND/U	0.14 ND/U
SW8330	2-Nitrotoluene	ug/L	0.096 ND/U	0.16 ND/U	2.1/= /J
SW8330	3-Nitrotoluene	ug/L	0.096 ND/U	0.16 ND/U	0.44/TR/J
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.096 ND/U	0.16 ND/U	0.096 ND/U
SW8330	4-Nitrotoluene	ug/L	0.14 ND/U	0.16 ND/U	0.14 ND/U
SW8330	HMX	ug/L	0.096 ND/U	0.16 ND/U	0.096 ND/U
SW8330	Nitrobenzene	ug/L	0.1 ND/U	0.1 ND/U	0.1 ND/U
SW8330	RDX	ug/L	0.096 ND/U	0.16 ND/U	0.32/TR/J
SW8330	Tetryl	ug/L	0.096 ND/U	0.16 ND/U	0.096 ND/U
	Metals				
SW6010	Aluminum	ug/L	100 ND/U	50 ND/U	102/TR/J
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	195/TR/J	767/=	967/=
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	58700/=	66000/=	65400/=

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	3 ND/U	12.5/TR/J
SW6010	Iron	ug/L	30 ND/U	64.9/TR/J	321/=
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	30100/=	37800/=	37900/=
SW6010	Manganese	ug/L	10.2/TR/J	38.8/=	30.8/=
SW7470	Mercury (total)	ug/L	0.091/TR/J	0.08 ND/U	0.08 ND/U
SW6010	Nickel	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Potassium	ug/L	10800/=	29600/=	28400/=
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	35700/=	190000/=	172000/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	5 ND/U	13.9/TR/J	5 ND/U
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.12 ND/U	0.13 ND/U	0.14 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	1,3-Dichlorobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	ND/R	10 ND/U	11 ND/UJ
SW8270	2,4-Dinitrotoluene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2,6-Dinitrotoluene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2-Chloronaphthalene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2-Chlorophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1.1 ND/UJ	2.6/TR/J	4.6/TR/J
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	2-Nitrophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	3-Methylphenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	4-Nitrophenol	ug/L	5.3 ND/UJ	5.1 ND/U	5.6 ND/UJ
SW8270	Acenaphthene	ug/L	1.1 ND/UJ	1 ND/U	0.57 ND/UJ
SW8270	Acenaphthylene	ug/L	1.1 ND/UJ	1 ND/U	0.51 ND/UJ
SW8270	Anthracene	ug/L	1.1 ND/UJ	1 ND/U	0.29 ND/UJ
SW8270	Benzo(a)anthracene	ug/L	1.1 ND/UJ	1 ND/U	0.21 ND/UJ
SW8270	Benzo(a)pyrene	ug/L	1.1 ND/UJ	1 ND/U	0.33 ND/UJ
SW8270	Benzo(b)fluoranthene	ug/L	1.1 ND/UJ	1 ND/U	0.32 ND/UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Benzo(k)fluoranthene	ug/L	1.1 ND/UJ	1 ND/U	0.5 ND/UJ
SW8270	Benzoic acid	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
SW8270	Benzyl alcohol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Benzyl butyl phthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Carbazole	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Chrysene	ug/L	1.1 ND/UJ	1 ND/U	0.56 ND/UJ
SW8270	Di-n-butylphthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Di-n-octylphthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1.1 ND/UJ	1 ND/U	0.9 ND/UJ
SW8270	Dibenzofuran	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Diethylphthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Dimethylphthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Fluoranthene	ug/L	1.1 ND/UJ	1 ND/U	0.24 ND/UJ
SW8270	Fluorene	ug/L	1.1 ND/UJ	1 ND/U	0.52 ND/UJ
SW8270	Hexachlorobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Hexachlorobutadiene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Hexachloroethane	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.1 ND/UJ	1 ND/U	0.7 ND/UJ
SW8270	Isophorone	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.85 ND/UJ	0.82 ND/U	1.1 ND/UJ
SW8270	N-Nitrosodimethylamine	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Naphthalene	ug/L	1.1 ND/UJ	2.4/TR/J	5.3/TR/J
SW8270	Nitrobenzene	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Pentachlorophenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Phenanthrene	ug/L	1.1 ND/UJ	1 ND/U	0.39 ND/UJ
SW8270	Phenol	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	Pyrene	ug/L	1.1 ND/UJ	1 ND/U	0.37 ND/UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1.1 ND/UJ	1 ND/U	1.1 ND/UJ
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.4 ND/U	0.4 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.5 ND/U	0.5 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.5 ND/U	0.5 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.6 ND/U	0.6 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.3 ND/UJ	0.3 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.3 ND/UJ	0.3 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.5 ND/U	0.5 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.5 ND/U	0.5 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1 ND/U	1 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/U	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	17/=	38/=	120/=
SW8260	Bromochloromethane	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.8 ND/UJ	0.8 ND/U	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.45/TR/J	0.2 ND/U	1.4/=
SW8260	Carbon tetrachloride	ug/L	0.4 ND/U	0.4 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.5 ND/U	0.5 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.4 ND/U	0.4 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.5 ND/U	0.5 ND/U	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	31/=	97/=	160/=
SW8260	Dibromochloromethane	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	4.8/=	16/=	31/=
SW8260	Isopropylbenzene (Cumene)	ug/L	1/=	4.7/=	7.6/=
SW8260	Methyl Acetate	ug/L	1 ND/U	1 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	18/=	53/=	62/=
SW8260	Methylene Chloride	ug/L	0.9 ND/U	0.9 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.42/TR/J	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	11/=	26/=	68/=
SW8260	Trichloroethene (TCE)	ug/L	0.4 ND/U	0.4 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.5 ND/U	0.5 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.4 ND/U	0.4 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	33/=	120/=	260/>
SW8260	cis-1,2-Dichloroethene	ug/L	0.4 ND/U	0.4 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-BEDGW002-02A 4/25/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDMW003-01B 1/30/2005 RESULT / QUAL	PBOW-05-GW-AA3-BEDGW003-02A 4/29/2005 RESULT / QUAL
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 ND/U	0.4 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW002-02A 4/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW002-02D 4/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW003-01B 1/25/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L	363/=		
E300	Chloride (as Cl)	mg/L	2.6/=		
SW9012	Cyanide	ug/L	5 ND/U	5 ND/U	
SW9012A	Cyanide	ug/L			5 ND/U
E200.7	Hardness (as CACO3)	mg/L	411/=		
E300	Nitrogen, Nitrate (as N)	mg/L	0.025 ND/U		
E300	Sulfate (as SO4)	mg/L	39/=		
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4 ND/U		
E160.1	Total Dissolved Solids	mg/L	406/=		
SW9060	Total Organic Carbon	mg/L	1.4/TR/J		
E180.1	Turbidity	NTU	1 ND/U		
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.082 ND/U	0.082 ND/U	0.096 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.11 ND/U	0.11 ND/U	0.14 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.11 ND/U	0.11 ND/U	0.14 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.14 ND/U
SW8330	2-Nitrotoluene	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	3-Nitrotoluene	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	4-Nitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.14 ND/U
SW8330	HMX	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	Nitrobenzene	ug/L	0.09 ND/U	0.09 ND/U	0.088 ND/U
SW8330	RDX	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
SW8330	Tetryl	ug/L	0.082 ND/U	0.082 ND/U	0.14 ND/U
	Metals				
SW6010	Aluminum	ug/L	100 ND/U	100 ND/U	68.4/TR/J
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	55.3/TR/J	54.7/TR/J	97.4/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U

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SW6010	Calcium	ug/L	124000/=	120000/=	173000/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	3 ND/U
SW6010	Iron	ug/L	30 ND/U	30 ND/U	58.1/TR/J
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	24900/=	24800/=	57000/=
SW6010	Manganese	ug/L	3 ND/U	3 ND/U	299/=
SW7470	Mercury (total)	ug/L	0.091/TR/J	0.08 ND/U	0.125/TR/J
SW6010	Nickel	ug/L	3 ND/U	3 ND/U	5.1/TR/J
SW6010	Potassium	ug/L	500 ND/U	500 ND/U	1420/TR/J
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	6120/=	6000/=	36800/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	4.5/TR/J
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	11.5/TR/J	56.7/= /J	25/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW002-02A 4/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW002-02D 4/21/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW003-01B 1/25/2005 RESULT / QUAL
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 ND/UJ	0.12 ND/UJ	0.12 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	1,2-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	1,2-Diphenylhydrazine	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	1,3-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	1,4-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,4,5-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,4,6-Trichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,4-Dichlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,4-Dimethylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2,4-Dinitrophenol	ug/L	ND/R	ND/R	10 ND/U
SW8270	2,4-Dinitrotoluene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	2,6-Dinitrotoluene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	2-Chloronaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Chlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Methylnaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	2-Nitroaniline	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	2-Nitrophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	3,3'-Dichlorobenzidine	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	3-Methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	3-Nitroaniline	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Bromophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Chloro-3-methylphenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Chloroaniline	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	4-Nitroaniline	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	4-Nitrophenol	ug/L	5 ND/UJ	5.1 ND/UJ	5 ND/U
SW8270	Acenaphthene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Acenaphthylene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Anthracene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Benzo(a)anthracene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Benzo(a)pyrene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Benzo(b)fluoranthene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Benzo(g,h,i)perylene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzo(k)fluoranthene	ug/L	1 ND/U	1 ND/U	1 ND/U

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SW8270	Benzoic acid	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Benzyl alcohol	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Benzyl butyl phthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Carbazole	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Chrysene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Di-n-butylphthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Di-n-octylphthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Dibenz(a,h)anthracene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Dibenzofuran	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Diethylphthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Dimethylphthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Fluoranthene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Fluorene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Hexachlorobenzene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Hexachlorobutadiene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Hexachlorocyclopentadiene	ug/L	ND/UR	ND/UR	1 ND/U
SW8270	Hexachloroethane	ug/L	ND/UR	ND/UR	1 ND/U
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Isophorone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.8 ND/U	0.82 ND/U	0.8 ND/U
SW8270	N-Nitrosodimethylamine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	N-Nitrosodiphenylamine	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Naphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Nitrobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Pentachlorophenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Phenanthrene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	Phenol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	Pyrene	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/U
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1 ND/U	1 ND/U	1 ND/U
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.4 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.5 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.5 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.6 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U

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SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.5 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.5 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	1 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/U	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/U	0.4 ND/U	0.8 ND/U
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.2 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.4 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.5 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.4 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/U	0.4 ND/U	0.5 ND/U
SW8260	Cyclohexane	ug/L	0.3 ND/U	0.3 ND/U	0.6 ND/U
SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/U
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	1 ND/U
SW8260	Methylcyclohexane	ug/L	0.2 ND/U	0.2 ND/U	0.5 ND/U
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.9 ND/U
SW8260	Styrene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.4 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.5 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.4 ND/U
SW8260	Xylenes, Total	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.4 ND/U

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SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.3 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.4 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-02A 4/24/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-02A 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-02A 4/28/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L	352/=	378/=	329/=
E300	Chloride (as Cl)	mg/L	72.2/=	4.2/=	2.3/=
SW9012	Cyanide	ug/L	5 ND/U	5 ND/U	5 ND/U
E200.7	Hardness (as CACO3)	mg/L	699/=	383/=	439/=
E300	Nitrogen, Nitrate (as N)	mg/L	0.064/TR/J	0.062/TR/J	0.025 ND/U
E300	Sulfate (as SO4)	mg/L	268/=	37.5/=	114/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L	4 ND/U	4 ND/U	4 ND/U
E160.1	Total Dissolved Solids	mg/L	836/=	443/=	502/=
SW9060	Total Organic Carbon	mg/L	1.6/TR/J	2.3/=	1.1/TR/J
E180.1	Turbidity	NTU	2/=	2/=	3.7/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.13 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 ND/U	0.14 ND/U	0.15 ND/U
SW8330	2-Nitrotoluene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	3-Nitrotoluene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	4-Nitrotoluene	ug/L	0.14 ND/U	0.14 ND/U	0.15 ND/U
SW8330	HMX	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	Nitrobenzene	ug/L	0.099 ND/U	0.1 ND/U	0.11 ND/U
SW8330	RDX	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
SW8330	Tetryl	ug/L	0.09 ND/U	0.091 ND/U	0.098 ND/U
	Metals				
SW6010	Aluminum	ug/L	103/TR/J	112/TR/J	177/TR/J
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	8.1/TR/J
SW6010	Barium	ug/L	84.4/TR/J	237/=	100/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	187000/=	93800/=	113000/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	4 ND/U
SW6010	Iron	ug/L	40.4/TR/J	38.2/TR/J	167/=
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	56500/= /J	36300/=	38200/=

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SW6010	Manganese	ug/L	277/=	81.7/=	73.4/=
SW7470	Mercury (total)	ug/L	0.08 ND/U	0.08 ND/U	0.08 ND/U
SW6010	Nickel	ug/L	5.2/TR/J	3 ND/U	3 ND/U
SW6010	Potassium	ug/L	1110/TR/J	1790/TR/J	1310/TR/J
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	33500/= /J	17300/=	8820/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	24.6/=	117/=	128/=
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.12 ND/U	0.14 ND/U	0.12 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	1,3-Dichlorobenzene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	ND/R	ND/R	11 ND/UJ
SW8270	2,4-Dinitrotoluene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	2,6-Dinitrotoluene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	2-Chloronaphthalene	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	2-Chlorophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	2-Nitrophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	3-Methylphenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-02A 4/24/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-02A 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-02A 4/28/2005 RESULT / QUAL
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	4-Chloro-3-methylphenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	4-Nitrophenol	ug/L	5 ND/UJ	ND/R	5.6 ND/UJ
SW8270	Acenaphthene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Acenaphthylene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Anthracene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzo(a)anthracene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzo(a)pyrene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzo(b)fluoranthene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzo(g,h,i)perylene	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	Benzo(k)fluoranthene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzoic acid	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Benzyl butyl phthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Carbazole	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Chrysene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Di-n-butylphthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Di-n-octylphthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Dibenz(a,h)anthracene	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	Dibenzofuran	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Diethylphthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Dimethylphthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Fluoranthene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Fluorene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Hexachlorobenzene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Hexachlorobutadiene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	ND/R	1.1 ND/UJ	1.1 ND/UJ
SW8270	Hexachloroethane	ug/L	ND/R	1.1 ND/UJ	1.1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	Isophorone	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.8 ND/U	0.89 ND/U	0.89 ND/U
SW8270	N-Nitrosodimethylamine	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Naphthalene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	Nitrobenzene	ug/L	1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-02A 4/24/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-02A 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-02A 4/28/2005 RESULT / QUAL
SW8270	Pentachlorophenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	Phenanthrene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	Phenol	ug/L	1 ND/UJ	ND/R	1.1 ND/UJ
SW8270	Pyrene	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 ND/UJ	1.1 ND/U	1.1 ND/U
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1 ND/U	1.1 ND/U	1.1 ND/U
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.6 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.3 ND/UJ	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.3 ND/UJ	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/U	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromochloromethane	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.8 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.2 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.5 ND/U	0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	0.6 ND/U	0.44/TR/J	0.3 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-GW-AA3-GW003-02A 4/24/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW004-02A 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA3-GW005-02A 4/28/2005 RESULT / QUAL
SW8260	Dibromochloromethane	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methyl Acetate	ug/L	1 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	0.5 ND/U	0.6/TR/J	0.49/TR/J
SW8260	Methylene Chloride	ug/L	0.9 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.4 ND/UJ	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-SW-AA3-SW01-A 4/29/2005 RESULT / QUAL	PBOW-05-SW-AA3-SW02-A 4/29/2005 RESULT / QUAL	PBOW-05-SW-AA3-SW03-A 4/29/2005 RESULT / QUAL
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 ND/U	0.14 ND/U	0.13 ND/U
SW8330	2-Nitrotoluene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	3-Nitrotoluene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	4-Nitrotoluene	ug/L	0.14 ND/U	0.14 ND/U	0.13 ND/U
SW8330	HMX	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	Nitrobenzene	ug/L	0.1 ND/U	0.1 ND/U	0.097 ND/U
SW8330	RDX	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
SW8330	Tetryl	ug/L	0.094 ND/U	0.094 ND/U	0.088 ND/U
	Metals				
SW6010	Aluminum	ug/L	118/TR/J	205/=	404/= /J
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	33.7/TR/J	31/TR/J	39/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	88600/=	96300/=	88800/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	4 ND/U
SW6010	Iron	ug/L	62.6/TR/J	209/=	644/= /J
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	20100/=	19500/=	17300/=
SW6010	Manganese	ug/L	27.3/=	23.4/=	147/= /J
SW7470	Mercury (total)	ug/L	0.08 ND/U	0.08 ND/U	0.08 ND/U
SW6010	Nickel	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Potassium	ug/L	1400/TR/J	1100/TR/J	1820/TR/J
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	3130/=	3290/= /J	2530/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	5 ND/U	5 ND/U	5 ND/U
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U

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SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 ND/U	0.13 ND/U	0.13 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	1,2-Dichlorobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	1,2-Diphenylhydrazine	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	1,3-Dichlorobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	1,4-Dichlorobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	11 ND/UJ	11 ND/UJ	11 ND/UJ
SW8270	2,4-Dinitrotoluene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2,6-Dinitrotoluene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2-Chloronaphthalene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2-Chlorophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	2-Nitrophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	3-Methylphenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	4-Chloro-3-methylphenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	4-Nitrophenol	ug/L	5.3 ND/UJ	5.4 ND/UJ	5.4 ND/UJ
SW8270	Acenaphthene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Acenaphthylene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Anthracene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzo(a)anthracene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-SW-AA3-SW01-A 4/29/2005 RESULT / QUAL	PBOW-05-SW-AA3-SW02-A 4/29/2005 RESULT / QUAL	PBOW-05-SW-AA3-SW03-A 4/29/2005 RESULT / QUAL
SW8270	Benzo(a)pyrene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzo(b)fluoranthene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzo(g,h,i)perylene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzo(k)fluoranthene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzoic acid	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Benzyl butyl phthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Carbazole	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Chrysene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Di-n-butylphthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Di-n-octylphthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Dibenz(a,h)anthracene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Dibenzofuran	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Diethylphthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Dimethylphthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Fluoranthene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Fluorene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Hexachlorobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Hexachlorobutadiene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Hexachlorocyclopentadiene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Hexachloroethane	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Isophorone	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.85 ND/UJ	0.87 ND/UJ	0.87 ND/U
SW8270	N-Nitrosodimethylamine	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Naphthalene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Nitrobenzene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Pentachlorophenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	Phenanthrene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	Phenol	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/UJ
SW8270	Pyrene	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1.1 ND/UJ	1.1 ND/UJ	1.1 ND/U
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/UJ	2 ND/UJ	2 ND/UJ
SW8260	Benzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

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METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-SW-AA3-SW03-D 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA2-ITMW10-02A 4/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-MKMW09-02A 4/25/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L		468/=	166/=
E300	Chloride (as Cl)	mg/L		6.7/=	2.4/=
SW9012	Cyanide	ug/L		5 ND/U	5 ND/U
E200.7	Hardness (as CACO3)	mg/L		739/=	191/=
E300	Nitrogen, Nitrate (as N)	mg/L		0.025 ND/U	0.91/=
E300	Sulfate (as SO4)	mg/L		261/=	18.8/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L		4 ND/U	4 ND/U
E160.1	Total Dissolved Solids	mg/L		859/=	239/=
SW9060	Total Organic Carbon	mg/L		1.5/TR/J	3.1/=
E180.1	Turbidity	NTU		1.7/TR/J	20.3/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	1,3-Dinitrobenzene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	2,4-Dinitrotoluene	ug/L	0.11 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2,6-Dinitrotoluene	ug/L	0.11 ND/U	0.12 ND/U	0.11 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.12 ND/U	0.13 ND/U	0.13 ND/U
SW8330	2-Nitrotoluene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	3-Nitrotoluene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	4-Nitrotoluene	ug/L	0.12 ND/U	0.13 ND/U	0.13 ND/U
SW8330	HMX	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	Nitrobenzene	ug/L	0.092 ND/U	0.099 ND/U	0.095 ND/U
SW8330	RDX	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
SW8330	Tetryl	ug/L	0.083 ND/U	0.09 ND/U	0.086 ND/U
	Metals				
SW6010	Aluminum	ug/L	244/= /J	122/TR/J	1160/=
SW6010	Antimony	ug/L	5 ND/U	5 ND/U	5 ND/U
SW6010	Arsenic	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Barium	ug/L	31.6/TR/J	44.9/TR/J	26.1/TR/J
SW6010	Beryllium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Cadmium	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Calcium	ug/L	82900/=	181000/=	53900/=
SW6010	Chromium	ug/L	2 ND/U	2 ND/U	2 ND/U
SW6010	Cobalt	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Copper	ug/L	4 ND/U	4 ND/U	4 ND/U
SW6010	Iron	ug/L	307/= /J	155/=	1020/=
SW6010	Lead	ug/L	1.5 ND/U	1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L	16900/=	69700/=	13700/=

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SW6010	Manganese	ug/L	41.2/= /J	222/=	6.6/TR/J
SW7470	Mercury (total)	ug/L	0.08 ND/U	0.08 ND/U	0.091/TR/J
SW6010	Nickel	ug/L	3 ND/U	4.5/TR/J	3 ND/U
SW6010	Potassium	ug/L	1560/TR/J	2150/=	629/TR/J
SW6010	Selenium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Silver	ug/L	1 ND/U	1 ND/U	1 ND/U
SW6010	Sodium	ug/L	2510/=	19700/=	2750/=
SW6010	Thallium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Vanadium	ug/L	3 ND/U	3 ND/U	3 ND/U
SW6010	Zinc	ug/L	5 ND/U	5 ND/U	10.6/TR/J
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 ND/U	0.12 ND/U	0.12 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,3-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L	10 ND/UJ	ND/R	ND/R
SW8270	2,4-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2,6-Dinitrotoluene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Chloronaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Chlorophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	2-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	2-Nitrophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	3-Methylphenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	3-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ

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SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	4-Chloroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	4-Nitroaniline	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	4-Nitrophenol	ug/L	5.2 ND/UJ	ND/R	5 ND/UJ
SW8270	Acenaphthene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Acenaphthylene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Anthracene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(a)anthracene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(a)pyrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(b)fluoranthene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzoic acid	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	Benzyl alcohol	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Benzyl butyl phthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Carbazole	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Chrysene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Di-n-butylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Di-n-octylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Dibenzofuran	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Diethylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Dimethylphthalate	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Fluoranthene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Fluorene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Hexachlorobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Hexachlorobutadiene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Hexachloroethane	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Isophorone	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.83 ND/UJ	0.8 ND/UJ	0.8 ND/UJ
SW8270	N-Nitrosodimethylamine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Naphthalene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Nitrobenzene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ

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SW8270	Pentachlorophenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	Phenanthrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	Phenol	ug/L	1 ND/UJ	ND/R	1 ND/UJ
SW8270	Pyrene	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 ND/UJ	1 ND/UJ	1 ND/UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	1 ND/UJ	1.2/TR/J	1 ND/UJ
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	2 ND/UJ	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-SW-AA3-SW03-D 4/29/2005 RESULT / QUAL	PBOW-05-GW-AA2-ITMW10-02A 4/28/2005 RESULT / QUAL	PBOW-05-GW-AA2-MKMW09-02A 4/25/2005 RESULT / QUAL
SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS		PBOW-05-GW-AA2-MKMW09-02D 4/25/2005 RESULT / QUAL	PBOW-05-GW-PB-BED-MW19 4/25/2005 RESULT / QUAL
	Wet Chemistry				
E310.1	Alkalinity, Total (as CaCO3)	mg/L			745/=
E300	Chloride (as Cl)	mg/L			239/=
SW9012	Cyanide	ug/L		5 ND/U	5 ND/U
E200.7	Hardness (as CACO3)	mg/L			741/=
E300	Nitrogen, Nitrate (as N)	mg/L			0.025 ND/U
E300	Sulfate (as SO4)	mg/L			1.4/=
E160.2	Suspended Solids (residue, Non-filterable)	mg/L			4 ND/U
E160.1	Total Dissolved Solids	mg/L			1140/=
SW9060	Total Organic Carbon	mg/L			2.9/=
E180.1	Turbidity	NTU			89.3/=
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L		0.088 ND/U	0.096 ND/U
SW8330	1,3-Dinitrobenzene	ug/L		0.088 ND/U	0.096 ND/U
SW8330	2,4,6-Trinitrotoluene	ug/L		0.088 ND/U	0.096 ND/U
SW8330	2,4-Dinitrotoluene	ug/L		0.11 ND/U	0.12 ND/U
SW8330	2,6-Dinitrotoluene	ug/L		0.11 ND/U	0.12 ND/U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L		0.13 ND/U	0.14 ND/U
SW8330	2-Nitrotoluene	ug/L		0.088 ND/U	0.096 ND/U
SW8330	3-Nitrotoluene	ug/L		0.088 ND/U	0.15/TR/J
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L		0.088 ND/U	0.096 ND/U
SW8330	4-Nitrotoluene	ug/L		0.13 ND/U	0.14 ND/U
SW8330	HMX	ug/L		0.088 ND/U	0.096 ND/U
SW8330	Nitrobenzene	ug/L		0.097 ND/U	0.1 ND/U
SW8330	RDX	ug/L		0.088 ND/U	0.096 ND/U
SW8330	Tetryl	ug/L		0.088 ND/U	0.096 ND/U
	Metals				
SW6010	Aluminum	ug/L		1160/= /J	100 ND/U
SW6010	Antimony	ug/L		5 ND/U	5 ND/U
SW6010	Arsenic	ug/L		3 ND/U	3 ND/U
SW6010	Barium	ug/L		26.7/TR/J	1620/=
SW6010	Beryllium	ug/L		1 ND/U	1 ND/U
SW6010	Cadmium	ug/L		1 ND/U	1 ND/U
SW6010	Calcium	ug/L		55700/=	165000/=
SW6010	Chromium	ug/L		2 ND/U	2 ND/U
SW6010	Cobalt	ug/L		3 ND/U	3 ND/U
SW6010	Copper	ug/L		4 ND/U	4 ND/U
SW6010	Iron	ug/L		1030/=	30 ND/U
SW6010	Lead	ug/L		1.5 ND/U	1.5 ND/U
SW6010	Magnesium	ug/L		14100/=	80000/=

METHOD	ANALYTE	SAMP. NUM. DATE UNITS		PBOW-05-GW-AA2-MKMW09-02D 4/25/2005 RESULT / QUAL	PBOW-05-GW-PB-BED-MW19 4/25/2005 RESULT / QUAL
SW6010	Manganese	ug/L		6.5/TR/J	8.1/TR/J
SW7470	Mercury (total)	ug/L		0.08 ND/U	0.08 ND/U
SW6010	Nickel	ug/L		3 ND/U	3 ND/U
SW6010	Potassium	ug/L		630/TR/J	29100/=
SW6010	Selenium	ug/L		3 ND/U	3 ND/U
SW6010	Silver	ug/L		1 ND/U	1 ND/U
SW6010	Sodium	ug/L		2850/=	152000/=
SW6010	Thallium	ug/L		3 ND/U	3 ND/U
SW6010	Vanadium	ug/L		3 ND/U	3 ND/U
SW6010	Zinc	ug/L		11.7/TR/J	5 ND/U
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1221 (Aroclor 1221)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1232 (Aroclor 1232)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1242 (Aroclor 1242)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1248 (Aroclor 1248)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1254 (Aroclor 1254)	ug/L		0.12 ND/U	0.13 ND/U
SW8082	PCB-1260 (Aroclor 1260)	ug/L		0.12 ND/U	0.13 ND/U
	Semivolatile Organic Compounds				
SW8270	1,2,4-Trichlorobenzene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	1,2-Dichlorobenzene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	1,2-Diphenylhydrazine	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	1,3-Dichlorobenzene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	1,4-Dichlorobenzene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,4,5-Trichlorophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,4,6-Trichlorophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dichlorophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dimethylphenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,4-Dinitrophenol	ug/L		ND/R	ND/R
SW8270	2,4-Dinitrotoluene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2,6-Dinitrotoluene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2-Chloronaphthalene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2-Chlorophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2-Methylnaphthalene	ug/L		1 ND/UJ	1.3/TR/J
SW8270	2-Methylphenol (o-Cresol)	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2-Nitroaniline	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	2-Nitrophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	3,3'-Dichlorobenzidine	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	3-Methylphenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	3-Nitroaniline	ug/L		1 ND/UJ	1.1 ND/UJ

Plum Brook Acid Areas 2 and 3
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METHOD	ANALYTE	SAMP. NUM. DATE UNITS		PBOW-05-GW-AA2-MKMW09-02D 4/25/2005 RESULT / QUAL	PBOW-05-GW-PB-BED-MW19 4/25/2005 RESULT / QUAL
SW8270	4,6-Dinitro-2-methylphenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Bromophenyl phenyl ether	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Chloro-3-methylphenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Chloroaniline	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Nitroaniline	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	4-Nitrophenol	ug/L		5.1 ND/UJ	5.6 ND/UJ
SW8270	Acenaphthene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Acenaphthylene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Anthracene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzo(a)anthracene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzo(a)pyrene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzo(b)fluoranthene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzo(g,h,i)perylene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzo(k)fluoranthene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzoic acid	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzyl alcohol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Benzyl butyl phthalate	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Carbazole	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Chrysene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Di-n-butylphthalate	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Di-n-octylphthalate	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Dibenz(a,h)anthracene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Dibenzofuran	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Diethylphthalate	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Dimethylphthalate	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Fluoranthene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Fluorene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Hexachlorobenzene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Hexachlorobutadiene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Hexachlorocyclopentadiene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Hexachloroethane	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Isophorone	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L		0.82 ND/UJ	0.89 ND/UJ
SW8270	N-Nitrosodimethylamine	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	N-Nitrosodiphenylamine	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Naphthalene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Nitrobenzene	ug/L		1 ND/UJ	1.1 ND/UJ

METHOD	ANALYTE	SAMP. NUM. DATE UNITS		PBOW-05-GW-AA2-MKMW09-02D 4/25/2005 RESULT / QUAL	PBOW-05-GW-PB-BED-MW19 4/25/2005 RESULT / QUAL
SW8270	Pentachlorophenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Phenanthrene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Phenol	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	Pyrene	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L		1 ND/UJ	1.1 ND/UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L		1 ND/UJ	1.1 ND/UJ
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L		0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L		0.2 ND/U	0.33/TR/J
SW8260	1,1-Dichloroethane	ug/L		0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L		0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L		4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L		1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L		1 ND/U	1 ND/U
SW8260	Acetone	ug/L		2 ND/U	2 ND/U
SW8260	Benzene	ug/L		0.2 ND/U	6.6/=
SW8260	Bromochloromethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L		0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L		0.3 ND/U	0.38/TR/J
SW8260	Carbon tetrachloride	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L		0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L		0.3 ND/U	38/=

Plum Brook Acid Areas 2 and 3
Round 2 Groundwater and Surface Water for the April 2005 Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS		PBOW-05-GW-AA2-MKMW09-02D 4/25/2005 RESULT / QUAL	PBOW-05-GW-PB-BED-MW19 4/25/2005 RESULT / QUAL
SW8260	Dibromochloromethane	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L		0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L		0.2 ND/U	3.3/=
SW8260	Isopropylbenzene (Cumene)	ug/L		0.2 ND/U	1.3/=
SW8260	Methyl Acetate	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L		0.2 ND/U	21/=
SW8260	Methylene Chloride	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Tetrachloroethene (PCE)	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L		0.2 ND/U	1.8/=
SW8260	Trichloroethene (TCE)	ug/L		0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L		0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L		0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L		0.2 ND/U	22/=
SW8260	cis-1,2-Dichloroethene	ug/L		0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L		0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L		0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L		0.2 ND/U	0.2 ND/U

TR	Trace level detect (>MDL<RL)
ND	Non-detect
=	Detect
U	Analyte was analyzed for but not detected
J	The identification of the analyte is acceptable, but the quantitative value is considered estimated
UJ	Combination of the U and J qualifiers indicating the analyte is not present, and the reported value is considered to be an estimated quantitation limit
R	Data are considered rejected and shall not be used due to a QA/QC failure such that it cannot be determined if the analyte is present or absent from the sample

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Round 2 Groundwater and Surface Water Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-042105-02 4/21/2005 RESULT / QUAL	PBOW-05-TB-042405-01 4/24/2005 RESULT / QUAL	PBOW-05-TB-042505-02 4/25/2005 RESULT / QUAL	PBOW-05-TB-042705-01 4/27/2005 RESULT / QUAL
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/L	ND/R	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	ND/R	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1,2-Trichloroethane	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,1-Dichloroethane	ug/L	ND/R	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,1-Dichloroethene	ug/L	ND/R	0.6 ND/U	0.3 ND/U	0.3 ND/U
SW8260	1,2,3-Trichlorobenzene	ug/L	ND/R	0.3 ND/UJ	0.2 ND/U	0.2 ND/U
SW8260	1,2,4-Trichlorobenzene	ug/L	ND/R	0.3 ND/UJ	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	ND/R	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dibromoethane (EDB)	ug/L	ND/R	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichlorobenzene	ug/L	ND/R	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloroethane	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,2-Dichloropropane	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,3-Dichlorobenzene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	1,4-Dichlorobenzene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	ND/R	1 ND/U	4 ND/U	4 ND/U
SW8260	2-Hexanone	ug/L	ND/R	1 ND/U	1 ND/U	1 ND/U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	ND/R	1 ND/U	1 ND/U	1 ND/U
SW8260	Acetone	ug/L	ND/R	2 ND/U	2 ND/U	2 ND/U
SW8260	Benzene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromochloromethane	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromodichloromethane	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromoform	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Bromomethane	ug/L	ND/R	0.8 ND/UJ	0.4 ND/UJ	0.4 ND/UJ
SW8260	Carbon Disulfide	ug/L	ND/R	0.2 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Carbon tetrachloride	ug/L	ND/R	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chlorobenzene	ug/L	ND/R	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Chloroethane	ug/L	ND/R	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloroform	ug/L	ND/R	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Chloromethane	ug/L	ND/R	0.5 ND/U	0.4 ND/UJ	0.4 ND/UJ
SW8260	Cyclohexane	ug/L	ND/R	0.6 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Dibromochloromethane	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Dichlorodifluoromethane	ug/L	ND/R	0.4 ND/U	0.4 ND/U	0.4 ND/U
SW8260	Ethylbenzene	ug/L	ND/R	0.2 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Isopropylbenzene (Cumene)	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methyl Acetate	ug/L	ND/R	1 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylcyclohexane	ug/L	ND/R	0.5 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Methylene Chloride	ug/L	ND/R	0.9 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Styrene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	ND/R	0.2 ND/U	0.2 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Round 2 Groundwater and Surface Water Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-042105-02 4/21/2005 RESULT / QUAL	PBOW-05-TB-042405-01 4/24/2005 RESULT / QUAL	PBOW-05-TB-042505-02 4/25/2005 RESULT / QUAL	PBOW-05-TB-042705-01 4/27/2005 RESULT / QUAL
SW8260	Tetrachloroethene (PCE)	ug/L	ND/R	0.3 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Toluene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichloroethene (TCE)	ug/L	ND/R	0.4 ND/U	0.2 ND/U	0.2 ND/U
SW8260	Trichlorofluoromethane	ug/L	ND/R	0.5 ND/U	0.3 ND/U	0.3 ND/U
SW8260	Vinyl chloride	ug/L	ND/R	0.4 ND/U	0.5 ND/U	0.5 ND/U
SW8260	Xylenes, Total	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	cis-1,2-Dichloroethene	ug/L	ND/R	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	cis-1,3-Dichloropropene	ug/L	ND/R	0.3 ND/U	0.2 ND/U	0.2 ND/U
SW8260	trans-1,2-Dichloroethene	ug/L	ND/R	0.4 ND/U	0.3 ND/U	0.3 ND/U
SW8260	trans-1,3-Dichloropropene	ug/L	ND/R	0.2 ND/U	0.2 ND/U	0.2 ND/U

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Round 2 Groundwater and Surface Water Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-042805-01 4/28/2005 RESULT / QUAL	PBOW-05-TB-042905-01 4/29/2005 RESULT / QUAL	PBOW-05-TB-042905-03 4/29/2005 RESULT / QUAL	
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,1,2-Trichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,1-Dichloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	1,1-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	1,2,3-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2,4-Trichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2-Dichloroethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,2-Dichloropropane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,3-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	1,4-Dichlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4 ND/U	4 ND/U	4 ND/U	
SW8260	2-Hexanone	ug/L	1 ND/U	1 ND/U	1 ND/U	
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1 ND/U	1 ND/U	1 ND/U	
SW8260	Acetone	ug/L	2 ND/U	2 ND/U	2 ND/UJ	
SW8260	Benzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Bromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Bromodichloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Bromoform	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Bromomethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ	
SW8260	Carbon Disulfide	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Carbon tetrachloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Chlorobenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Chloroethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Chloroform	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Chloromethane	ug/L	0.4 ND/UJ	0.4 ND/UJ	0.4 ND/UJ	
SW8260	Cyclohexane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Dibromochloromethane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Dichlorodifluoromethane	ug/L	0.4 ND/U	0.4 ND/U	0.4 ND/U	
SW8260	Ethylbenzene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Isopropylbenzene (Cumene)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Methyl Acetate	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Methylcyclohexane	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Methylene Chloride	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Styrene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	

Plum Brook Acid Areas 2 and 3
Field QC Associated with the Round 2 Groundwater and Surface Water Investigation

METHOD	ANALYTE	SAMP. NUM. DATE UNITS	PBOW-05-TB-042805-01 4/28/2005 RESULT / QUAL	PBOW-05-TB-042905-01 4/29/2005 RESULT / QUAL	PBOW-05-TB-042905-03 4/29/2005 RESULT / QUAL	
SW8260	Tetrachloroethene (PCE)	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Toluene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Trichloroethene (TCE)	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	Trichlorofluoromethane	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	Vinyl chloride	ug/L	0.5 ND/U	0.5 ND/U	0.5 ND/U	
SW8260	Xylenes, Total	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	cis-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	cis-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	
SW8260	trans-1,2-Dichloroethene	ug/L	0.3 ND/U	0.3 ND/U	0.3 ND/U	
SW8260	trans-1,3-Dichloropropene	ug/L	0.2 ND/U	0.2 ND/U	0.2 ND/U	

TR Trace level detect (>MDL<RL)
ND Non-detect
= Detect
U Analyte was analyzed for but not detected
J The identification of the analyte is acceptable, but the quantitative value is considered estimated
UJ Combination of the U and J qualifiers indicating the analyte is not present, and the reported value is considered to be an estimated quantitation limit
R Data are considered rejected and shall not be used due to a QA/QC failure such that it cannot be determined if the analyte is present or absent from the sample

CHEMICAL DATA QUALITY REPORT

ADDITIONAL SURFACE WATER AND SEDIMENT SAMPLING FOR THE REMEDIAL INVESTIGATION, PART 1, ACID AREA 2 (AA2) AND ACID AREA 3 (AA3)

FORMER PLUM BROOK ORDNANCE WORKS SANDUSKY, OHIO

Prepared for:

DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
NASHVILLE, TENNESSEE
CONTRACT DACW62-03-D-0004-0002

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August 2006

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ATTACHMENT 1 SAMPLE INFORMATION TABLES

ATTACHMENT 2 TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Abbreviations and Acronyms

BEHP	bis(2-Ethylhexyl)phthalate
C	Celsius
CDQR	Chemical Data Quality Report
CLP	USEPA Contract Laboratory Program
COC	Chain of Custody
CQAR	Chemical Quality Assurance Report
DQO	Data Quality Objectives
GC	Gas Chromatograph or Gas Chromatography
HTRW-CX	Hazardous, Toxic, and Radioactive Waste - Center of Expertise
IS	Internal Standard
Jacobs	Jacobs Engineering Group Inc
LCS	Laboratory Control Sample
MD	Matrix Duplicate
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PAH	Polynuclear Aromatic Hydrocarbon Compounds
PCB	Polychlorinated Biphenyl Compounds
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
QAPP	Quality Assurance Project Plan
RL	Reporting Limit
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SDG	Sample Delivery Group
SVOC	Semi-volatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TCL	Target Compound List
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

This Chemical Data Quality Report (CDQR) presents an evaluation of the quality and usability of the analytical data generated in support of the remedial investigation at Acid Areas 2 and 3 (AA2 and AA3, respectively) at the former Plum Brook Ordnance Works (PBOW). Jacobs Engineering (Jacobs) performed this remedial investigation for the United States Army Corps of Engineers (USACE) Nashville District under contract number DACW62-03-D-0004, task order 0002.

Both primary and quality assurance (QA) environmental samples were collected by Jacobs and were submitted to approved laboratories for chemical analyses. Jacobs provided data quality evaluation services for the primary data. This CDQR covers Jacobs' evaluation of the primary data.

This evaluation meets and completes the requirement of Step 2 "data verification" of the project data quality assessment (DQA) process. Completion of this step completes Jacob's portion of the requirement in the DQA process. A description of the DQA process is included in Section 8.2.2 of the approved Quality Assurance Project Plan (QAPP). As specified in the QAPP, the findings of this evaluation were discussed in terms of data precision, accuracy, representativeness, sensitivity and completeness.

1.1 REPORT ORGANIZATION

The CDQR has been organized into four sections and two attachments:

- Section 1 - Report organization and data quality program including: analytical laboratory used, analytical samples included in the evaluation, analytical protocols/methods employed, data evaluation procedures followed, and summary of data reporting formats.
- Section 2 - Definitions of qualifiers that may be assigned to data based on this evaluation.
- Section 3 - Statement of the project overall data quality and summary of qualifiers applied to the data as a result of this evaluation.
- Section 4 - Data quality narratives.
- Attachment 1 - Sample information tables including field and laboratory ID cross-reference.
- Attachment 2 - Test result tables with review qualifiers applied.

1.2 DATA QUALITY ASSURANCE PROGRAM

In order to verify compliance with project objects, it was required that certain measurements of chemical constituents in environmental samples be made that met definitive data quality standards. This CDQR is applicable to those data.

Definitive data standards are specified by the USEPA in *"Data Quality Objectives Process for Superfund,"* EPA540-R-93-071, USEPA Office of Emergency and Remedial Response, September 1993. Definitive data are defined as follows:

> "Definitive data are generated using rigorous analytical methods, such as approved EPA reference methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data (e.g., chromatograms, spectra, digital values) in the form of paper printouts or computer-generated electronic files. Data may be generated at the site or at an off-site location, as long as the QA/QC requirements are satisfied. For the data to be definitive, either analytical or total measurement error must

be determined."

Specific project data quality objectives (DQOs) and procedures to achieve the DQOs are documented in the approved project Sampling and Analysis Plan Addendum (SAP). Key elements of the quality program relating to this evaluation include:

- Use of approved, USACE-validated laboratories.
- Use of a sampling program designed to meet the project objectives.
- Use of appropriate analytical methods and measurement parameters.
- Evaluation of reported QA/QC to verify compliance with DQOs.
- Use of appropriate analytical data reporting formats.

These elements are discussed in the following paragraphs.

1.2.1 Project Analytical Laboratories

The analytical laboratories employed on this project were evaluated by the USACE Hazardous, Toxic and Radioactive Waste Center of Expertise (HTRW-CX) and hold a current letters of validation from HTRW-CX to perform sample analyses in support of the USACE HTRW Program. This validation confirms their ability to produce reliable and defensible data. The primary analytical laboratory that was used was:

Empirical Laboratories of Tennessee
Contact: Ms. Marcia McGinnity, Project Manager (PM)
227 French Landing Drive
Suite 550
Nashville, TN 37228
Phone: (615) 345-1115

1.2.2 Sampling Program Design/Project Samples

The sampling program was designed to collect samples representative of site conditions at the time of sampling and to generate data of sufficient quality and quantity to make the intended decisions. Project analytical samples were collected using standardized, USACE approved procedures documented in the sampling and analysis plan (SAP). The SAP was approved by the USACE prior to collection of the associated project samples and included the basis for selecting the sampling locations, sample collection procedures, frequency and type of samples collected, and the analytical parameters for each sample. There were no known deviations to the sample collection procedures presented in the SAP.

Definitive data measurements were required for the samples collected in support of this investigation. The investigation utilized the EPA Target Analyte List/Target Compound List (TAL/TCL) of analytes as the constituents of concern. The rationale for required analytical measurements and resulting data use is specified in the project QAPP.

Project samples included in this evaluation consist of 30 surface water samples and associated field QC samples collected in May of 2006 and 30 sediment samples and associated field QC samples collected in June of 2006. The laboratory reported the surface water, sediment, and field QC analyses in four sample delivery groups (SDGs). The SDGs included in this evaluation are:

ELAB SDG # PLUMBROOK W003

ELAB SDG # PLUMBROOK W004
ELAB SDG # PLUMBROOK S003
ELAB SDG # PLUMBROOK S004

A listing of specific project samples contained in the SDG, along with a cross reference of sample field ID numbers to laboratory ID numbers, is included with this report as Attachment 1.

1.2.3 Project Analytical Methods and Measurement Parameters

In order to obtain definitive data and promote data comparability, the laboratory was required to perform testing within the guidelines of standardized, USEPA and USACE approved methods and procedures included in the following protocols:

- *"Test Methods for Evaluating Solid Waste,"* SW-846, 3rd Edition, Update III, U.S. EPA, November 1986, (SW-846).
- "*Shell for Analytical Chemistry Requirements*," Appendix I, from EM 200-1-3 "*Requirements for the Preparation of Sampling and Analysis Plans*" USACE HTRW-CX, February 2001.
- *"Department of Defense Quality Systems Manual for Environmental Laboratories, Final Version 3,"* DoD Environmental Data Quality Workgroup, January 2006.

The project included collection of definitive data for all surface water and sediment samples for all measurement parameters. Specific analytical methods used in the analysis of each project sample were included in the laboratory case narratives included in each SDG and are summarized below for each primary sample type.

Surface Soil Samples

- Polynuclear aromatic hydrocarbons (PAHs) by SW-846 3541/8270C
- Semi-volatile organic compounds (SVOCs) by SW-846 3541/8270C
- Volatile organic compounds (VOCs) by SW-846 5035/8260B
- Polychlorinated biphenyls (PCBs) by SW-846 3541/8082
- Nitroaromatics by SW-846 8330
- TAL Metals by SW-846 3050B/6010B/7470A/7471A
- Cyanide by SW-846 9012A

1.2.3.1 Deviations from Planned Analytical Procedures

The only deviation from the QAPP prescribed analytical methods was for the PAH and PCB soil preparatory method. The QAPP requires soxhlet extraction by SW-846 3540C. Empirical Laboratories had previously requested permission to perform soxtherm extraction by SW-846 3541. This minor modification was approved in advance with Jacobs and the Nashville District Chemist. This modification to the preparatory method for PAHs and PCBs will not adversely affect data comparability with the initial soils data from the site.

1.2.4 Data Evaluation Procedure

The quality of this data has been evaluated following the "data verification" procedure included in the QAPP as Step 2 of the five-step USACE DQA process. The procedure was derived from the USACE "*Shell for Analytical Chemistry Requirements*" and considers the project DQOs, QC requirements of the analytical methods, and informed professional judgment of the evaluator.

Qualified Jacobs' personnel, experienced in the evaluation of analytical data quality, performed data evaluation.

A brief description of the procedure followed in this evaluation is presented below.

Data Verification Procedure

At a minimum, the following data quality issues were addressed in this evaluation with respect to 100% of the sample data.

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.
- Review of field QC blank data to detect contamination from outside sources.
- Review of field QC duplicates to evaluate data reproducibility.
- Review of laboratory QC including laboratory blanks, spike recoveries, and duplicates.
- Verification of calibrations as summarized by the laboratory on the CLP-like reporting forms and within their case narratives.
- Qualification of unusable data as rejected and attachment of appropriate qualifiers to usable data.
- Presentation of data evaluation findings in terms of the data quality parameters precision, accuracy, representativeness, sensitivity and completeness.

Data quality parameters were evaluated as follows:

- Precision - by evaluation of Matrix Spike/Matrix Spike Duplicate (MS/MSD), laboratory duplicate, and field duplicate relative percent differences (RPD).
- Accuracy - by evaluation of surrogate (SUR), Laboratory Control Sample (LCS), and MS/MSD percent recoveries (%R).
- Representativeness - by evaluation of sample receipt records, technical holding times, and blank sample results (field and laboratory).
- Sensitivity - by evaluation of laboratory detection limits, reporting units, and the overall performance of the chosen methods.
- Completeness - by comparing the number of valid measurements obtained to the number of measurements planned for these samples.

1.2.5 Data Reporting Formats

1.2.5.1 Laboratory Data Packages and Analytical Results

The laboratory reported field sample and supporting QC data in a format consistent with the USEPA Contract Laboratory Program (CLP) data reporting requirements. This "CLP-like" format included most applicable report summary forms and was sufficient to complete Step 2 of the DQA process. In a few cases the raw quantitation reports had to be reviewed to evaluate dilutions, manual integrations, and to check for proper quantitation.

The supplied reports did include chromatograms and other raw data that are necessary to complete a third party validation of the DQA process for all parameters of interest. However, third part validation is not currently planned for AA2 or AA3.

The complete analytical data packages received from the project laboratories and evaluated in this review are available from Jacobs upon request from the CELRN.

1.2.5.2 Data Quality Non-Conformances

Data quality non-conformances identified as a result of this review are presented in Section 4.0, Data Quality Narratives. The data quality narratives are detailed explanations of the findings of this evaluation in terms of precision, accuracy, representativeness, sensitivity and completeness. They are intended to present a compilation of laboratory QC results found outside project acceptance criteria and provide an assessment of the potential impact those results had on the analytical data. Typically, the bulk of the project analytical protocol requirements are fulfilled and, therefore, are not summarized in the narratives.

Tabular presentations of the analytical sample results were included in the SDG. The respective laboratory test results tables were compiled into Data Summary Tables from the Electronic Data Deliverable (EDD) and were included with this report as Attachment 2. In addition, the validation qualifiers were applied to sample data to indicate data use limitations based on the findings of this evaluation.

2.0 DATA QUALIFIER DEFINITIONS

The following definitions provide explanations of the data qualifiers that may be assigned to results based on this evaluation. The data qualifier definitions are consistent with those used within the USEPA NFG referenced in Section 1.2.3 of this report.

U- The analyte was analyzed for but not detected (ND). The value preceding the U is the Contract Required Quantitation Limit (CRQL).

J- The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).

UJ- This flag is a combination of the U and J qualifiers. This indicates that the analyte is not present and the reported value is considered to be an estimated CRQL.

R- Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample.

B- The B flag is to be used for both organic and inorganic analyses when the analyte is found in the associated blank as well as the in the sample. The result is considered ND, and the reported value is considered to be an estimated CRQL.

N- There is presumptive evidence that the analyte is present, but it has not been confirmed. The analyte is tentatively identified. There is an indication that the reported analyte is present, however, all quality control requirements necessary for confirmation were not met.

3.0 DATA EVALUATION SUMMARY

3.1 OVERALL ASSESSMENT OF PROJECT DATA QUALITY

In general, QA/QC results associated with this data indicated that the data met "definitive data" standards and were of known quality. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site conditions at the time sampled.

Data reported are acceptable for the uses as intended with the required qualifications and limitations. The data users are urged to review the Data Quality Narratives and associated data qualifications before utilizing this data for decision-making.

Summary Of Required Data Qualifications

This section provides a summary of qualifiers applied to the data as a result of this evaluation. Attachment 2 includes tabular presentations of the analytical sample results with data qualifiers applied based on the findings of this evaluation. The data qualifier definitions applied during this review are presented in Section 2.0. Section 4.0, Data Quality Narratives, contains discussion of the evaluation findings along with an assessment of the impact on project data. Data qualified as estimated due to detection at a level below the laboratory quantitation limit but above the method detection limit were not included in this summary since they were not qualified due to QC non-conformance.

SDG Empirical Laboratories Plumbrook W003 (surface water):

1. For the PAH (method 8270C) analysis of samples PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW12-A, PBOW-SW-06-AA3-SW11-A, PBOW-06-SW-AA3-SW10-A ,PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW09-A, PBOW-06-SW-AA3-SW08-A, PBOW-06-SW-AA3-SW-07A, and PBOW-06-SW-AA3-SW-07D several target analyte results were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to low LCS recoveries.
2. For the PAH (method 8270C) analysis of sample PBOW-06-SW-AA2-SW07-A all compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries for nitrobenzene-d5 and 2-fluorobiphenyl.
3. For the SVOC (method 8270C) analysis of several samples, results for benzyl alcohol were qualified (coded "UJ" for non-detects) as estimated due to marginal CCV exceedances.
4. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA2-SW19-A, PBOW-06-SW-AA2-SW16-A, and PBOW-06-SW-AA2-SW15-A results were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to marginal hold-time exceedances.
5. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW12-A, and PBOW-06-SW-AA2-SW15-A results for bis(2-ethylhexyl)phthalate (BEHP) were qualified as "JB" indicating that BEHP was detected in the associated laboratory blank(s), and the detects may be false positives.
6. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA3-SW16-A and PBOW-SW-06-AA3-SW19-A results for diethylphthalate were qualified as "JB" indicating that diethylphthalate was detected in the associated laboratory blank, and the detects may be false positives.
7. For the SVOC (method 8270C) analysis of several samples, results for several compounds were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries (see Table in Section 4.1 for specific samples and

qualifications).

8. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW12-A, PBOW-06-SW-AA3-SW15, PBOW-06-SW-AA2-SW16, PBOW-06SW-SW-AA2-SW15, and PBOW-06-SW-AA2-SW19, results for several compounds were qualified as estimated (coded "J" for detects and "UJ" for nondetects) due to low LCS recoveries.
9. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW12-A, PBOW-06-SW-AA3-SW15, PBOW-06-SW-AA2-SW16, PBOW-06-SW-AA2-SW15, and PBOW-06-SW-AA2-SW19 results for benzoic acid were qualified as not-useable (rejected) due to extremely low (less than 20 percent recovery) LCS recoveries.
10. For the SVOC (method 8270C) analysis of sample PBOW-06-SW-AA3-SW04-A, results for 2,4-dinitrophenol, phenol, 4-nitrophenol, 4-nitroaniline, and N-nitroso-di-methylamine were qualified as estimated (coded "J" for detects and "UJ" for nondetects) due to low MS and/or MSD recoveries. Benzoic acid was qualified as not-useable (rejected) due to zero (0) percent MS/MSD recoveries.

SDG Empirical Laboratories Plumbrook W004 (surface water):

1. For the PAH (method 8270C) analysis of samples PBOW-06-SW-AA2-SW14-A, PBOW-06-SW-AA2-SW13-A, PBOW-06-SW-AA2-SW12-A, PBOW-06-SW-AA2-SW11-A ,PBOW-06-SW-AA2-SW10-A, PBOW-06-SW-AA2-SW10-D, PBOW-06-SW-AA2-SW09-A, PBOW-06-SW-AA2-SW08-A, PBOW-06-SW-AA2-SW07-A, PBOW-06-SW-AA2-SW07-D, PBOW-06-SW-AA2-SW06-A, PBOW-06-SW-AA2-SW05-A, and PBOW-06-SW-AA2-SW04-A several target analyte results were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to low LCS recoveries.
2. For the PAH (method 8270C) analysis of PBOW-06-SW-AA2-SW-14A, PBOW-06-SW-AA2-SW-13A, PBOW-06-SW-AA2-SW12-A, PBOW-06-SW-AA2-SW11-A ,PBOW-06-SW-AA2-SW10-A, PBOW-06-SW-AA2-SW10-D, PBOW-06-SW-AA2-SW09-A, PBOW-06-SW-AA2-SW08-A, PBOW-06-SW-AA2-SW07-A, PBOW-06-SW-AA2-SW07-D, PBOW-06-SW-AA2-SW06-A, PBOW-06-SW-AA2-SW05-A, and PBOW-SW-06-AA2-SW04-A all compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries for nitrobenzene-d5 and 2-fluorobiphenyl.
3. For the PAH (method 8270C) analysis of PBOW-SW-06-AA2-SW14-A, PBOW-SW-06-AA2-SW-13A, PBOW-06-SW-AA2-SW12-A, PBOW-06-SW-AA2-SW11-A, PBOW-06-SW-AA2-SW10-A, and PBOW-06-SW-AA2-SW10-D results for naphthalene were qualified as "JB" indicating that naphthalene was detected in the associated laboratory blank(s), and the detects may be false positives.
4. For the SVOC (method 8270C) analysis of several samples, results for 1,2,4-trichlorobenzene in several samples were qualified (coded "UJ" for non-detects) as estimated due to marginal CCV exceedances.
5. For the SVOC (method 8270C) analysis of several samples, results for several compounds were qualified as estimated ("J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries (see Table Section 4.1 for specific samples and qualifications).
6. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA2-SW14-A, PBOW-06-SW-AA2-SW13-A, PBOW-06-SW-AA2-SW12-A, PBOW-06-SW-AA2-SW11-A ,PBOW-06-SW-AA2-SW10-A, PBOW-06-SW-AA2-SW10-D, PBOW-06-SW-AA2-SW09-A, PBOW-06-SW-AA2-SW08-A, PBOW-06-SW-AA2-SW07-A, PBOW-SW-06-AA2-SW07-D, PBOW-SW-06-AA2-SW06-A, PBOW-SW-06-AA2-SW05-A, and PBOW-06-SW-AA2-SW04-A, results for several compounds were qualified as estimated (coded "J" for detects and "UJ"

for nondetects) due to low LCS recoveries.

7. For the SVOC (method 8270C) analysis of samples PBOW-06-SW-AA2-SW14-A, PBOW-06-SW-AA2-SW13-A, PBOW-06-SW-AA2-SW12-A, PBOW-06-SW-AA2-SW11-A ,PBOW-06-SW-AA2-SW10-A, PBOW-06-SW-AA2-SW10-D, PBOW-06-SW-AA2-SW09-A, PBOW-06-SW-AA2-SW08-A, PBOW-06-SW-AA2-SW07-A, PBOW-06-SW-AA2-SW07-D, PBOW-06-SW-AA2-SW06-A, PBOW-06-SW-AA2-SW05-A, and PBOW-06-SW-AA2-SW04-A results for benzoic acid were qualified as not-useable (rejected) due to extremely low (less than 20 percent recovery) LCS recoveries.
8. For the SVOC (method 8270C) analysis of sample PBOW-06-SW-AA2-SW06-A, results for several compounds were qualified as estimated ("J" for detects and "UJ" for nondetects) due to low MS and/or MSD recoveries. Benzoic acid, 4,6-dinitro-2-methylnaphthalene, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, phenol, and 2,4,5-trichlorophenol were qualified as not-useable (rejected) due to extremely low (less than 20 percent) MS and /or MSD recoveries.

SDG Empirical Laboratories Plumbrook S003 (sediment):

1. For the VOC (method 8260B) analysis of all sediment samples, acetone and toluene detects were qualified as "JB" to indicate that the compounds were detected in the associated laboratory blank(s), and the detects may be false positives.
2. For the VOC (method 8260B) analysis of sediment samples PBOW-06-SD-AA2-SD13-A, PBOW-06-SD-AA2-SD12-A, PBOW-06-SD-AA2-SD11-A, PBOW-06-SD-AA2-SD10-A, PBOW-06-SD-AA2-SD09-A, PBOW-06-SD-AA2-SD08-A, PBOW-06-SD-AA2-SD06-A PBOW-06-SD-AA2-SD05-A, and PBOW-06-SD-AA2-SD04-A acetone recovery was marginally low in the associated LCS sample. Acetone was qualified as estimated (coded "J" for detects, and "UJ" for non-detects).
3. For the PAH (method 8270C) analysis of PBOW-06-SD-AA2-SD04-A compound results for benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene were qualified as estimated (coded "J") if detected and not-useable (rejected) if non-detect due to low perylene-d12 internal standard area.
4. For the PAH (method 8270C) analysis of all sediment samples, results for 2-methylnaphthalene and naphthalene were qualified as estimated ("J" for detects, "UJ" for non-detects) due to marginally low LCS recoveries.
5. For the PAH (method 8270C) analysis of all sediment samples, all results were qualified as estimated ("J" for detects, "UJ" for non-detects) due to marginally low surrogate recoveries.
6. For the SVOC (method 8270C) analysis of several samples, results for several compounds were qualified as estimated ("J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries (see Table in Section 4.2.1 for specific samples and qualifications).
7. For the SVOC (method 8270C) analysis of several samples results for several compounds were qualified as estimated ("J" for detects, "UJ" for non-detects) due to marginally low LCS recoveries. Results for benzoic acid in the same samples were qualified as not-useable (rejected) due to extremely low (less than 20 percent recovery) LCS recoveries.
8. For the SVOC (method 8270C) analysis of PBOW-06-SD-AA3-SD12-A results for benzoic acid were qualified as not-useable (rejected) due to extremely low (less than 20 percent recovery) MS and or MSD recoveries.
9. For the metals (method 6010B) analysis of all samples in digestion batch ICP062706A, potassium detects were qualified as estimated ("J") due to serial dilution exceedances.
10. For the metals (method 6010B) analysis of all sediment samples, antimony results were qualified as estimated ("J" for detects, "UJ" for non-detects) due to low MS/MSD recoveries.
11. For the metals (method 6010B) analysis of all samples in digestion batch ICP062706A,

aluminum, arsenic, chromium, iron, and manganese results were qualified as estimated ("J" for detects, "UJ" for non-detects) due to MS/MSD RPD exceedances.

12. For the metals (method 6010B) analysis of all samples in digestion batch ICP062706B, aluminum, chromium, iron, lead, magnesium, manganese, and zinc results were qualified as estimated ("J" for detects, "UJ" for non-detects) due to MS/MSD RPD exceedances.
13. For the metals (method 7471A) analysis of mercury, all results were qualified with a "B" to indicate that mercury was detected in the associated digestion blank(s). The mercury results may be false positives.

SDG Empirical Laboratories Plumbrook S004 (sediment):

1. For the nitroaromatic explosive (method 8330) analysis of several sediment samples, positive results for several compounds were qualified as estimated (coded "J") due to sample interference leading to large RPD values between the primary and confirmatory columns. HMX and 4-nitroluene were qualified in sample PBOW-06-SD-AA2-SD20-A; RDX and 1,3,5-trinitrobenzene were qualified in sample PBOW-06-SD-AA2-SD16-A and PBOW-06-AA2-SD18-A; HMX and 2-nitrotoluene were qualified in sample PBOW-06-SD-AA2-SD18-D; HMX was qualified in sample PBOW-06-SD-AA2-SD07-D; and HMX and RDX were qualified in sample PBOW-06-SD-AA2-SD08-A.
2. For the PCB (method 8082) analysis of PBOW-06-SD-AA2-SD07-A and PBOW-06-SD-AA2-SD07-B, results for Aroclor 1260 were qualified as estimated (coded "J") due to RPD exceedances between the parent and field duplicate sample results.
3. For the VOC (method 8260B) analysis of several sediment samples, acetone and/or toluene detects were qualified as "JB" to indicate that the compounds were detected in the associated laboratory blank(s), and the detects may be false positives.
4. For the VOC (method 8260B) analysis of PBOW-06-SD-AA2-SD23-A, PBOW-06-SD-AA2-SD22-A, PBOW-06-SD-AA2-SD21-A, and PBOW-06-SD-AA2-SD20-A results for acetone were qualified as estimated (coded "J" for detects) due to marginally low LCS recoveries.
5. For the PAH (method 8270C) analysis of PBOW-06-AA2-SD07-D, PBOW-06-AA2-SD18-D, and PBOW-06-AA3-SD08-D compound results for benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene were qualified as estimated (coded "J" for detects, and "UJ" for non-detects) due to matrix interferences causing low perylene-d12 internal standard areas.
6. For the PAH (method 8270C) analysis of all sediment samples, results for 2-methylnaphthalene and naphthalene were qualified as estimated ("J" for detects, "UJ" for non-detects) due to marginally low LCS recoveries.
7. For the PAH (method 8270C) analysis of all sediment samples, results from all samples except PBOW-06-SD-AA2-SD23-A, PBOW-06-SD-AA2-SD07-D, and PBOW-06-SD-AA2-SD08-D were qualified as estimated (coded "J" for detects, "UJ" for non-detects) due to marginally low surrogate recoveries.
8. For the SVOC (method 8270C) analysis of several samples, results for several compounds were qualified as estimated ("J" for detects and "UJ" for non-detects) due to marginally low surrogate recoveries (see Table in Section 4.2.1 for specific samples and qualifications).
9. For the SVOC (method 8270C) analysis of several samples, results for several compounds were qualified as estimated ("J" for detects, "UJ" for non-detects) due to marginally low LCS recoveries. Results for benzoic acid in the same samples were qualified as not-useable (rejected) due to extremely low (less than 20 percent recovery) LCS recoveries.
10. For the metals (method 6010B) analysis of all sediment samples, antimony results were qualified as estimated ("J" for detects, "UJ" for non-detects) due to low MS/MSD recoveries.
11. For the metals (method 6010B) analysis of all samples in digestion batch ICP062706B, aluminum, chromium, iron, lead, magnesium, manganese, and zinc results were qualified as

estimated ("J" for detects, "UJ" for non-detects) due to MS/MSD RPD exceedances.

12. For the metals (method 7471A) analysis of mercury, all results were qualified with a "B" to indicate that mercury was detected in the associated digestion blank(s). The mercury results may be false positives.

4.0 DATA QUALITY NARRATIVES

The findings of this data quality evaluation are presented below in terms of precision, accuracy, representativeness, sensitivity and completeness.

4.1 DATA PRECISION

4.1.1 Field QC Duplicate Precision Review

Project field duplicate precision indicators were found to be in control for each analytical method, with the one exception noted below in Specific Findings. The exception, one RPD exceedance between results in a normal sample and associated FD sample, was evaluated to determine whether it had any impact on data use or resulted in data qualification. As listed below, the results in both samples were qualified as estimated; however, this did not impact the usability of the data.

All samples were analyzed for PAH compounds by both the general 8270 method, and a modified 8270 method specific to PAHs (with lower detection limits and reporting limits, listed as 8270_PAH). Results between the two methods agreed remarkably well, with all RPD results in samples where PAH compounds were detected in both analyses less than 20 percent. In samples where a PAH compound was detected in by one analysis, but not the other, the results were generally low level (often less than the DL of the 8270 method, and in general less than the RL of either method) and in no case were the results of the detect greater than two times the highest RL. If these samples were treated as field duplicates (rather than individual analyses), then no qualifications would apply based on RPD values.

Specific Findings:

1. The PCB (method 8082) field duplicate performed on sediment samples PBOW-05-SD-AA2-SD07-A and PBOW-06-SD-AA2-SD07-D had an RPD outlier as detailed in the table below. The RPD exceeded the project criteria (< 50% RPD) for soil samples. The positive results in both the parent sample and the field duplicate were qualified as estimated "J".

Sediment Field Duplicate RPD Outliers		
Analyte	RPD	Qualifier
Aroclor 1260	101%	J

4.1.2 Laboratory Duplicate Precision Review

Project laboratory duplicate precision indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Laboratory duplicate precision outliers were associated with only with the sediment samples, and are most likely due to matrix interferences. All of the data qualified due to laboratory duplicate precision outliers was considered usable and valid data.

Specific Findings:

1. The second column confirmation of the nitroaromatic results (method 8330) for several

sediment samples and several analytes were found to exceed the RPD criteria of 40%. The outliers are detailed in the table below. Based on interferences in the samples leading to high RPD between the primary and confirmatory result values, results were qualified as estimated (coded "J") to indicate the potential imprecise measurement.

Sediment Confirmatory Column RPD Outliers			
Sample ID	Analyte	RPD	Qualifier
PBOW-06-SD-AA2-SD04A	HMX	142%	J
PBOW-06-SD-AA2-SD07D	HMX	149%	J
PBOW-06-SD-AA2-SD08A	HMX	176%	J
	RDX	139%	J
PBOW-06-SD-AA2-SD16A	RDX	60%	J
	1,3,5-TNB	102%	J
PBOW-06-SD-AA2-SD18A	HMX	66%	J
	1,3,5-TMB	51%	J
PBOW-06-SD-AA2-SD18D	HMX	121%	J
	2-NT	149%	J
PBOW-06-SD-AA2-SD20A	HMX	101%	J
	4-NT	182%	J

2. The total metals (method 6010B) matrix duplicate analysis performed on the sediment sample PBOW-06-SD-AA-SD12-A was found to have RPD exceedances (greater than the 25% acceptance criteria) for aluminum, arsenic, chromium, iron and manganese. All compound detects in the associated extraction batch were qualified as estimated (coded "J").

Sediment Metals (Method 6010B) Matrix Duplicate Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA3-SD13-A	Aluminum Arsenic Chromium Iron Manganese	J
PBOW-06-SD-AA3-SD12-A		
PBOW-06-SD-AA3-SD11-A		
PBOW-06-SD-AA3-SD10-A		
PBOW-06-SD-AA3-SD09-A		
PBOW-06-SD-AA3-SD07-A		
PBOW-06-SD-AA3-SD06-A		
PBOW-06-SD-AA3-SD05-A		
PBOW-06-SD-AA3-SD04-A		
PBOW-06-SD-AA2-SD15-A		
PBOW-06-SD-AA2-SD14-A		
PBOW-06-SD-AA2-SD13-A		
PBOW-06-SD-AA2-SD12-A		

3. The total metals (method 6010B) matrix duplicate analysis performed on the sediment sample PBOW-06-SD-AA-SD11-A was found to have RPD exceedances (greater than the 25% acceptance criteria) for aluminum, chromium, iron, lead, magnesium, manganese, and zinc. All compound detects in the associated extraction batch were qualified as estimated (coded "J").

Sediment Metals (Method 6010B) Matrix Duplicate Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA2-SD11-A	Aluminum Chromium Iron Lead Magnesium Manganese Zinc	J
PBOW-06-SD-AA2-SD10-A		
PBOW-06-SD-AA2-SD09-A		
PBOW-06-SD-AA2-SD08-A		
PBOW-06-SD-AA2-SD06-A		
PBOW-06-SD-AA2-SD05-A		
PBOW-06-SD-AA2-SD04-A		
PBOW-06-SD-AA2-SD23-A		
PBOW-06-SD-AA2-SD22-A		
PBOW-06-SD-AA2-SD21-A		
PBOW-06-SD-AA2-SD20-A		
PBOW-06-SD-AA2-SD19-A		
PBOW-06-SD-AA2-SD17-A		
PBOW-06-SD-AA2-SD16-A		
PBOW-06-SD-AA2-SD07-A		
PBOW-06-SD-AA2-SD07-D		
PBOW-06-SD-AA3-SD08-A		
PBOW-06-SD-AA3-SD08-D		
PBOW-06-SD-AA2-SD18-A		
PBOW-06-SD-AA2-SD18-D		

4. The metals (method 6010B) serial dilution analysis performed on sample PBOW-06-SD-AA3-SD12-A had high a high RPD value for potassium. All potassium detects in the associated digestion batch were qualified as estimated (coded "J").

Sediment Metals (method 6010B) Serial Dilution Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA3-SD13-A	Potassium	J
PBOW-06-SD-AA3-SD12-A		
PBOW-06-SD-AA3-SD11-A		
PBOW-06-SD-AA3-SD10-A		
PBOW-06-SD-AA3-SD09-A		
PBOW-06-SD-AA3-SD07-A		
PBOW-06-SD-AA3-SD06-A		
PBOW-06-SD-AA3-SD05-A		
PBOW-06-SD-AA3-SD04-A		
PBOW-06-SD-AA2-SD15-A		
PBOW-06-SD-AA2-SD14-A		

Sediment Metals (method 6010B) Serial Dilution Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA2-SD13-A		
PBOW-06-SD-AA2-SD12-A		

4.2 DATA ACCURACY

4.2.1 Data Accuracy Indicators Review

Project accuracy indicators were found to be in control for each analytical method, with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification. Instances were dilutions caused surrogate or spike recoveries to be diluted out are not discussed as findings if qualification based solely on dilution factor was not deemed necessary.

The majority of data accuracy qualifications were caused by marginally low LCS and MS/MSD recoveries, or marginally low surrogate recoveries, causing the data to be flagged as estimated to indicate uncertainty in the measurement. Two major exceptions to this were extremely low recoveries of the SVOC (method 8270C) compound benzoic acid in several LCS and/or LCSD and MS/MSD samples, leading to several non-useable (flagged as rejected) benzoic acid results, and some low internal standard areas in a few PAH (method 8270C) samples leading to some non-detected PAH compound results being qualified as non-useable (flagged as rejected). Several of the samples where low internal standards were encountered were field duplicate samples (PBOW-06-SD-AA2-SD07-D, PBOW-06-SD-AA2-SD18-D, and PBOW-06-SD-AA3-SD08-D), further mitigating the impact on sample accuracy.

Specific Findings:

5. The Continuing Calibration Verifications (CCV) associated with several SVOC (method 8270C) aqueous samples were marginally outside of criteria for benzyl alcohol and 1,2,4-trichlorobenzene. Non-detect results for these compounds were qualified as estimated (coded "UJ").

Aqueous SVOC (method 8270C) CCV Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SW-AA3-SW13-A	Benzyl Alcohol	UJ
PBOW-06-SW-AA3-SW12-A		
PBOW-06-SW-AA2-SW22-A		
PBOW-06-SW-AA2-SW21-A		
PBOW-06-SW-AA2-SW20-A		
PBOW-06-SW-AA2-SW20-D		
PBOW-06-SW-AA2-SW19-A		
PBOW-06-SW-AA2-SW18-A		
PBOW-06-SW-AA2-SW17-A		
PBOW-06-SW-AA2-SW16-A		

Aqueous SVOC (method 8270C) CCV Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SW-AA2-SW15-A		
PBOW-06-SW-AA2-SW10-D	1,2,4-Trichlorobenzene	UJ
PBOW-06-SW-AA2-SW09-A		
PBOW-06-SW-AA2-SW08-A		
PBOW-06-SW-AA2-SW07-A		
PBOW-06-SW-AA2-SW06-A		
PBOW-06-SW-AA2-SW05-A		
PBOW-06-SW-AA2-SW04-A		

6. The LCS recoveries for several aqueous PAH (method 8270C) compounds were marginally low. Affected compounds in associated samples were qualified as estimated (coded "J" for detects and "UJ" for non-detects).

Aqueous PAH (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SW-AA3-SW13-A	Acenaphthene Acenaphthylene Fluorene 2-Methylnaphthalene 1-Methlynaphthalene Naphthalene Phenanthrene	J for detects; UJ for non-detects
PBOW-06-SW-AA3-SW12-A		
PBOW-06-SW-AA3-SW11-A		
PBOW-06-SW-AA3-SW10-A		
PBOW-06-SW-AA3-SW09-A		
PBOW-06-SW-AA3-SW08-A		
PBOW-06-SW-AA3-SW07-A		
PBOW-06-SW-AA3-SW07-D		
PBOW-06-SW-AA2-SW14-A		
PBOW-06-SW-AA2-SW13-A		
PBOW-06-SW-AA2-SW12-A		
PBOW-06-SW-AA2-SW11-A		
PBOW-06-SW-AA2-SW10-A		
PBOW-06-SW-AA2-SW10-D		
PBOW-06-SW-AA2-SW09-A		
PBOW-06-SW-AA2-SW08-A		
PBOW-06-SW-AA2-SW07-A		
PBOW-06-SW-AA2-SW06-A		
PBOW-06-SW-AA2-SW05-A		
PBOW-06-SW-AA2-SW04-A		

7. The LCS recoveries for the PAH compounds (method 8270C) 2-methylnaphthalene and naphthalene were marginally low in all sediment LCS samples. All 2-methylnaphthalene and naphthalene sediment results were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
8. The LCS recoveries for several aqueous SVOC compounds (method 8270C) were marginally low. Non-detect results in associated samples were qualified as estimated (coded "UJ").

Aqueous SVOC (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SW-AA3-SW13-A PBOW-06-SW-AA3-SW12-A	Benzyl Alcohol bis(2-Chloroethyl) Ether 2-Chlorophenol 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane 2-Methylnaphthalne 2-Methylphenol Naphthalene Nitrobenzene 4-Nitrophenol N-Nitroso-di-methylamine Phenol 1,2,4-Trichlorobenzene	UJ
PBOW-06-SW-AA2-SW15-A PBOW-06-SW-AA2-SW16-A PBOW-06-SW-AA2-SW19-A	Butylbenzylphthalate Di-n-octylphthalate 4-Nitrophenol N-Nitroso-di-methylamine Phenol	UJ
PBOW-06-SW-AA2-SW14-A PBOW-06-SW-AA2-SW13-A PBOW-06-SW-AA2-SW12-A PBOW-06-SW-AA2-SW11-A PBOW-06-SW-AA2-SW10-A PBOW-06-SW-AA2-SW10-D PBOW-06-SW-AA2-SW09-A PBOW-06-SW-AA2-SW08-A PBOW-06-SW-AA2-SW07-A PBOW-06-SW-AA2-SW06-A PBOW-06-SW-AA2-SW05-A PBOW-06-SW-AA2-SW04-A	1,4-Dichlorobenzene 1,3-Dichlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane 4-Nitrophenol N-Nitroso-di-methylamine Phenol 1,2,4-Trichlorobenzene	UJ

9. The LCS recoveries for benzoic acid (method 8270) were extremely low (less than 20 percent recovery) in several aqueous extraction batches. The non-detected results in associated samples were qualified as not useable and were rejected.

Aqueous SVOC (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SW-AA3-SW13-A	Benzoic Acid	R
PBOW-06-SW-AA3-SW12-A		
PBOW-06-SW-AA2-SW15-A		
PBOW-06-SW-AA2-SW16-A		
PBOW-06-SW-AA2-SW19-A		
PBOW-06-SW-AA2-SW14-A		
PBOW-06-SW-AA2-SW13-A		
PBOW-06-SW-AA2-SW12-A		
PBOW-06-SW-AA2-SW11-A		
PBOW-06-SW-AA2-SW10-A		
PBOW-06-SW-AA2-SW10-D		
PBOW-06-SW-AA2-SW09-A		
PBOW-06-SW-AA2-SW08-A		
PBOW-06-SW-AA2-SW07-A		
PBOW-06-SW-AA2-SW06-A		
PBOW-06-SW-AA2-SW05-A		
PBOW-06-SW-AA2-SW04-A		

10. The LCS recoveries for several sediment SVOC compounds (method 8270C) were marginally low. Non-detect results in associated samples were qualified as estimated (coded "UJ").

Sediment SVOC (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA3-SD13-A	Benzyl Alcohol	UJ
PBOW-06-SD-AA3-SD12-A	bis(2-Chloroethyoxy) Methane	
PBOW-06-SD-AA3-SD11-A	bis(2-Chloroethyl) Ether	
PBOW-06-SD-AA3-SD10-A	bis(2-Chloroisopropyl) Ether	
PBOW-06-SD-AA3-SD09-A	4-Bromophenyl-phenylether	
PBOW-06-SD-AA3-SD07-A	2-Chlorophenol	
PBOW-06-SD-AA3-SD06-A	1,2-Dichlorobenzene	
PBOW-06-SD-AA3-SD05-A	1,4-Dichlorobenzene	
PBOW-06-SD-AA3-SD04-A	1,3-Dichlorobenzene	
PBOW-06-SD-AA2-SD15-A	4,6-Dinitro-2-methylphenol	
PBOW-06-SD-AA2-SD14-A	Hexachlorobutadiene	
PBOW-06-SD-AA2-SD13-A	Hexachlorocyclopentadiene	
PBOW-06-SD-AA2-SD12-A	Hexachloroethane	
	Isophorone	
	2-Methylnaphthalene	

Sediment SVOC (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
	2-Methylphenol Naphthalene Nitrobenzene 2-Nitrophenol N-Nitroso-di-methylamine N-Nitroso-di-n-propylamine Pentachlorophenol 1,2,4-Trichlorobenzene	
PBOW-06-SD-AA2-SD11-A PBOW-06-SD-AA2-SD10-A PBOW-06-SD-AA2-SD09-A PBOW-06-SD-AA2-SD08-A PBOW-06-SD-AA2-SD06-A PBOW-06-SD-AA2-SD05-A PBOW-06-SD-AA2-SD04-A PBOW-06-SD-AA2-SD23-A PBOW-06-SD-AA2-SD22-A PBOW-06-SD-AA2-SD21-A PBOW-06-SD-AA2-SD20-A PBOW-06-SD-AA2-SD19-A PBOW-06-SD-AA2-SD17-A PBOW-06-SD-AA2-SD16-A PBOW-06-SD-AA2-SD07-A PBOW-06-SD-AA2-SD07-D PBOW-06-SD-AA3-SD08-A PBOW-06-SD-AA3-SD08-D PBOW-06-SD-AA2-SD18-A PBOW-06-SD-AA2-SD18-D	Benzyl Alcohol bis(2-Chloroethoxy) Methane bis(2-Chloroethoxy) Ether bis(2-Chloroisopropyl) Ether 4-Bromophenyl-phenylether 4-Chloroaniline 2-Chloronaphthalene 2-Chlorophenol 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Isophorone 2-Methylnaphthalene 2-Methylphenol Naphthalene Nitrobenzene 2-Nitrophenol N-Nitroso-di-methylamine N-Nitroso-di-n-propylamine Pentachlorophenol Phenol 1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol	UJ

11. The LCS recoveries for benzoic acid (method 8270C) were extremely low (less than 20

percent recovery) in several sediment extraction batches. The non-detected results in associated samples were qualified as not useable and were rejected.

Sediment SVOC (method 8270C) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA3-SD13-A	Benzoic Acid	R
PBOW-06-SD-AA3-SD12-A		
PBOW-06-SD-AA3-SD11-A		
PBOW-06-SD-AA3-SD10-A		
PBOW-06-SD-AA3-SD09-A		
PBOW-06-SD-AA3-SD07-A		
PBOW-06-SD-AA3-SD06-A		
PBOW-06-SD-AA3-SD05-A		
PBOW-06-SD-AA3-SD04-A		
PBOW-06-SD-AA2-SD15-A		
PBOW-06-SD-AA2-SD14-A		
PBOW-06-SD-AA2-SD13-A		
PBOW-06-SD-AA2-SD12-A		
PBOW-06-SD-AA2-SD11-A		
PBOW-06-SD-AA2-SD10-A		
PBOW-06-SD-AA2-SD09-A		
PBOW-06-SD-AA2-SD08-A		
PBOW-06-SD-AA2-SD06-A		
PBOW-06-SD-AA2-SD05-A		
PBOW-06-SD-AA2-SD04-A		
PBOW-06-SD-AA2-SD23-A		
PBOW-06-SD-AA2-SD22-A		
PBOW-06-SD-AA2-SD21-A		
PBOW-06-SD-AA2-SD20-A		
PBOW-06-SD-AA2-SD19-A		
PBOW-06-SD-AA2-SD17-A		
PBOW-06-SD-AA2-SD16-A		
PBOW-06-SD-AA2-SD07-A		
PBOW-06-SD-AA2-SD07-D		
PBOW-06-SD-AA3-SD08-A		
PBOW-06-SD-AA3-SD08-D		
PBOW-06-SD-AA2-SD18-A		
PBOW-06-SD-AA2-SD18-D		

12. The LCS recoveries for acetone (method 8260B) were marginally low in one sediment analytical batch. Acetone results in associated samples were qualified as estimated (coded "J").

Sediment VOC (method 8260B) LCS Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-SD-AA2-SD13-A	Acetone	J
PBOW-06-SD-AA2-SD12-A		
PBOW-06-SD-AA2-SD11-A		
PBOW-06-SD-AA2-SD10-A		
PBOW-06-SD-AA2-SD09-A		
PBOW-06-SD-AA2-SD08-A		
PBOW-06-SD-AA2-SD06-A		
PBOW-06-SD-AA2-SD05-A		
PBOW-06-SD-AA2-SD04-A		
PBOW-06-SD-AA2-SD23-A		
PBOW-06-SD-AA2-SD22-A		
PBOW-06-SD-AA2-SD21-A		
PBOW-06-SD-AA2-SD20-A		

13. The SVOC (method 8270C) MS/MSD analysis performed on aqueous sample PBOW-06-SW-AA3-SW04-A had marginally low recoveries for 2,4-dinitrophenol, phenol, N-nitroso-dimethylamine, and 4-nitroaniline; and extremely no recovery for benzoic acid. Non-detect results for the compounds with low recoveries were qualified as estimated (coded "UJ"), and the result for benzoic acid was qualified as non-useable and rejected.
14. The SVOC (method 8270C) MS/MSD analysis performed on aqueous sample PBOW-06-SW-AA2-SW06-A had low recoveries for several compounds. Results for these compounds in the parent sample were qualified as indicated in the table below.

Aqueous SVOC (method 8270C) MS/MSD Recovery Outliers		
Sample ID	Analyte	Qualifier
PBOW-06-AA2-SW-06-A	Benzoic Acid	R
	4-Chloro-3-methylphenol	UJ
	2-Chlorophenol	UJ
	1,2-Dichlorobenzene	UJ
	1,4-Dichlorobenzene	UJ
	1,3-Dichlorobenzene	UJ
	2,4-Dichlorophenol	UJ
	2,4-Dimethylphenol	UJ
	4,6-Dinitro-2-methylphenol	R
	2,4-Dinitrophenol	R
	Hexachlorobutadiene	UJ
	Hexachlorocyclopentadiene	UJ
	Hexachloroethane	UJ
	2-Methylphenol	UJ
	4-Methylphenol	UJ
	Naphthalene	UJ
	2-Nitrophenol	UJ

Aqueous SVOC (method 8270C) MS/MSD Recovery Outliers		
Sample ID	Analyte	Qualifier
	4-Nitrophenol	R
	N-Nitroso-di-methylamine	UJ
	Pentachlorophenol	R
	Phenol	R
	1,2,4-Trichlorobenzene	UJ
	2,4,5-Trichlorophenol	R

15. The SVOC (method 8270C) MS/MSD analysis performed on sediment sample PBOW-06-SD-AA3-SD12-A had extremely low recoveries (less than 20 percent) for benzoic acid. The result for benzoic acid in the parent sample was qualified as non-usable and rejected.
16. The metals (method 6010B) MS/MSD analysis performed on samples PBOW-06-SD-AA3-SD12A and PBOW-06-SD-AA3-SD11-A2 had low MS/MSD recoveries for antimony. All sediment antimony results were qualified as estimated ("J" for detects and "UJ" for non-detects).
17. Surrogate recoveries were marginally low in the following aqueous PAH (method 8270C) samples: PBOW-06-SW-AA2-SW07-A, PBOW-06-SW-AA2-SW-14-A, PBOW-06-SW-AA2-SW-13-A, PBOW-06-SW-AA2-SW-12-A, PBOW-06-SW-AA2-SW-11-A ,PBOW-06-SW-AA2-SW-10-A, PBOW-06-SW-AA2-SW-10-D, PBOW-06-SW-AA2-SW-09-A, PBOW-06-SW-AA2-SW-08-A, PBOW-06-SW-AA2-SW07-A, PBOW-06-SW-AA2-SW-07-D, PBOW-06-SW-AA2-SW06-A, PBOW-06-SW-AA2-SW05-A, and PBOW-06-SW-AA2-SW04-A. All PAH compound results in these samples were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
18. Surrogate recoveries were marginally low in all of the sediment PAH samples (method 8270C) except PBOW-06-SD-AA2-SD23-A, PBOW-06-SD-AA2-SD07-D, and PBOW-06-SD-AA2-SD08-D. All PAH compound results in the samples were the surrogate recoveries were low were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
19. Surrogate recoveries were marginally low in several of the aqueous SVOC samples (method 8270C). Compound results in the aqueous samples were qualified as indicated in the table below.

Aqueous SVOC (method 8270C) Surrogate Spike Recovery Outliers	
Sample	Qualification
PBOW-06-SW-AA3-SW13-A	J/UJ all compounds
PBOW-06-SW-AA3-SW12-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW11-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW10-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW09-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW08-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW07-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW07-D	J/UJ acidic compounds
PBOW-06-SW-AA3-SW06-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW05-A	J/UJ acidic compounds
PBOW-06-SW-AA3-SW04-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW23-A	J/UJ acidic compounds

Aqueous SVOC (method 8270C) Surrogate Spike Recovery Outliers	
Sample	Qualification
PBOW-06-SW-AA2-SW22-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW21-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW20-A	J/UJ all compounds
PBOW-06-SW-AA2-SW20-D	J/UJ acidic compounds
PBOW-06-SW-AA2-SW19-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW18-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW17-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW16-A	J/UJ all compounds
PBOW-06-SW-AA2-SW15-A	J/UJ all compounds
PBOW-06-SW-AA2-SW14-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW13-A	J/UJ all compounds
PBOW-06-SW-AA2-SW12-A	J/UJ all compounds
PBOW-06-SW-AA2-SW11-A	J/UJ all compounds
PBOW-06-SW-AA2-SW10-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW10-D	J/UJ all compounds
PBOW-06-SW-AA2-SW09-A	J/UJ all compounds
PBOW-06-SW-AA2-SW08-A	J/UJ all compounds
PBOW-06-SW-AA2-SW07-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW06-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW05-A	J/UJ acidic compounds
PBOW-06-SW-AA2-SW04-A	J/UJ acidic compounds

20. Surrogate recoveries were marginally low in several of the sediment SVOC samples (method 8270C). Compound results in the sediment samples were qualified as indicated in the table below.

Sediment SVOC (method 8270C) Surrogate Spike Recovery Outliers	
Sample	Qualification
PBOW-06-SD-AA3-SD13-A	J/UJ base/neutral compounds
PBOW-06-SD-AA3-SD12-A	J/UJ all compounds
PBOW-06-SD-AA3-SD11-A	J/UJ all compounds
PBOW-06-SD-AA3-SD10-A	J/UJ all compounds
PBOW-06-SD-AA3-SD09-A	J/UJ all compounds
PBOW-06-SD-AA3-SD07-A	J/UJ base/neutral compounds
PBOW-06-SD-AA3-SD06-A	J/UJ base/neutral compounds
PBOW-06-SD-AA3-SD05-A	J/UJ base/neutral compounds
PBOW-06-SD-AA3-SD04-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD15-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD14-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD13-A	J/UJ base/neutral compounds

Sediment SVOC (method 8270C) Surrogate Spike Recovery Outliers	
Sample	Qualification
PBOW-06-SD-AA2-SD10-A	J/UJ all compounds
PBOW-06-SD-AA2-SD09-A	J/UJ all compounds
PBOW-06-SD-AA2-SD05-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD04-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD22-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD21-A	J/UJ all compounds
PBOW-06-SD-AA2-SD20-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD19-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD17-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD16-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD07-A	J/UJ base/neutral compounds
PBOW-06-SD-AA3-SD08-A	J/UJ base/neutral compounds
PBOW-06-SD-AA2-SD18-A	J/UJ all compounds
PBOW-06-SD-AA2-SD18-D	J/UJ base/neutral compounds

21. For the PAH (method 8270C) analysis of sediment sample PBOW-06-SD-AA2-SD04-A compound results for benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene were qualified as estimated (coded "UJ") if detected, or not-usable if non-detect (rejected) due to a low perylene-d12 internal standard area.
22. For the PAH (method 8270C) analysis of PBOW-06-SD-AA2-SD07-D, PBOW-06-SD-AA2-SD18-D, and PBOW-06-SD-AA3-SD08-D compound results for benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene were qualified as estimated (coded "J" for detects) or not-usable (rejected) if non-detect due to matrix interferences causing low perylene-d12 internal standard areas.

4.3 DATA REPRESENTATIVENESS

4.3.1 Sample Custody/Handling Documentation Review

The project samples were received at the laboratory adequately preserved, chilled within the required range of 4 ± 2 degrees Celsius, in good condition, and with required custody documentation in order.

4.3.2 Sample Holding Time Review

QC data indicated requirements for holding times were met for each sample analysis with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification. The holding time exceedances listed below did not have any impact on data usability.

Specific Findings:

1. For the aqueous SVOC (method 8270C) analysis of PBOW-06-SW-AA2-SW15-A, PBOW-06-SW-AA2-SW16-A, and PBOW-06-SW-AA2-SW19, samples were reextracted outside of the recommended hold time (extracted 12 days after sample collection; hold time is seven days from sample collection). All compound results in these three samples were qualified as estimated (coded "J" for detects, "UJ" for non-detects).

4.3.3 Blank Sample Results Review

QC data indicated requirements for blank sample results were met for each analytical method with the exceptions noted below as Specific Findings. Each exception was evaluated to determine whether it had any impact on data use or resulted in data qualification.

Several of the compounds detected in the method blanks are common laboratory contaminants (phthalates for SVOCs (method 8270C); and toluene and acetone for VOCs (method 8260B)). The results for the samples qualified due to naphthalene and mercury in the respective extraction or digestion batches were below their respective action levels; therefore, raising the DL and/or RL to the detected level and qualifying the data as false positives would not impact data usability in these cases.

Specific Findings:

1. For the SVOC (method 8270C) analysis of aqueous samples PBOW-06-SW-AA3-SW13-A, PBOW-06-SW-AA3-SW12-A, and PBOW-06-SW-AA2-SW15-A results for bis(2-ethylhexyl)phthalate (BEHP) were qualified as "JB" indicating that BEHP was detected in the associated laboratory blank(s), and the detects may be false positives.
2. For the SVOC (method 8270C) analysis of aqueous samples PBOW-06-SW-AA3-SW16-A and PBOW-06-SW-AA3-SW19-A results for diethylphthalate were qualified as "JB" indicating that diethylphthalate was detected in the associated laboratory blank, and the detects may be false positives.
3. For the PAH (method 8270C) analysis of aqueous samples PBOW-06-SW-AA2-SW14-A, PBOW-06-SW-AA2-SW13A, PBOW-06-SW-AA2-SW12-A, PBOW-SW-AA2-SW11-A, PBOW-06-SW-AA2-SW10-A, and PBOW-06-SW-AA2-SW10-D results for naphthalene were qualified as "JB" indicating that naphthalene was detected in the associated laboratory blank(s), and the detects may be false positives.
4. For the VOC (method 8260B) analysis of all sediment samples, acetone and/or toluene detects were qualified as "JB" to indicate that the compounds were detected in the associated laboratory blank(s), and the detects may be false positives.
5. For the metals (method 7471A) analysis of sediment samples for mercury, all results except for sample PBOW-06-SD-AA2-SD20-A were qualified with a "B" to indicate that mercury was detected in the associated digestion blank(s), and that the results may be false positives. Mercury results for sample PBOW-06-SD-AA2-SD20-A were greater than 5x the blank value (adjusted for digestion volume and percent solids); therefore no qualification was necessary.

4.4 DATA SENSITIVITY

Nine sediment samples and one associated field duplicate sample were analyzed at initial dilutions for the PCB analyses (method 8082) due to high concentrations (e.g. above the calibration range) for Aroclor 1260, resulting in elevated Method Detection Limits (MDLs) and Method Reporting Limits (MRLs) for the other Aroclors. In all cases, however, the MDLs for the remaining Aroclors were below the Region IX preliminary remediation goals, and the results for Aroclor 1260 were above the Region IX preliminary remediation goals.

Several surface water and sediment samples were analyzed at dilutions for calcium (method 6010B) in order to bring the results into the instrument's calibration range.

4.5 DATA COMPLETENESS

Data completeness met the project completeness goal of 95% usable data. Data completeness was assessed by comparing the number of samples successfully analyzed to the number submitted, and the number of valid measurements (non-rejected results) to the number of measurements expected. In general, the non-useable results (rejected data) were for a compound that is not a contaminant of concern at this site (benzoic acid), were not indicative of any data trends, or were mostly associated with field duplicate samples. The data were found to be acceptable for the intended data usages as qualified. Data completeness is summarized in the table below.

DATA COMPLETENESS	
SURFACE WATER	
ANALYSIS	COMPLETENESS
SVOC (8270C)	99%
PAH (8270C)	100%
PCB (8082)	100%
VOC (8260B)	100%
NITROAROMATICS (8330)	100%
METALS (6010B/7140)	100%
SEDIMENT	
SVOC (8270C)	99%
PAH (8270C)	97%
PCB (8082)	100%
VOC (8260B)	100%
NITROAROMATICS (8330)	100%
METALS (6010B/7141)	100%

ATTACHMENT 1

SAMPLE INFORMATION TABLES

Plum Brook Ordnance Works 2006 Sampling

Sample Date	Sample Time	Matrix	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
5/19/2006	13:05	WQ	FIELDQC	PBOW-TB02-51906	0605270-09	TB1	plumbrookw003-	SW8260
5/19/2006	14:20	WS	AA3-SWSD-07	PBOW-06-SW-AA3-SW07-A	0605270-07	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	14:20	WS	AA3-SWSD-07	PBOW-06-SW-AA3-SW07-D	0605270-08	FD1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	13:40	WS	AA3-SWSD-08	PBOW-06-SW-AA3-SW08-A	0605270-06	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	12:00	WS	AA3-SWSD-09	PBOW-06-SW-AA3-SW09-A	0605270-05	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	11:40	WS	AA3-SWSD-10	PBOW-06-SW-AA3-SW10-A	0605270-04	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	11:20	WS	AA3-SWSD-11	PBOW-06-SW-AA3-SW11-A	0605270-03	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	10:50	WS	AA3-SWSD-12	PBOW-06-SW-AA3-SW12-A	0605270-02	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/19/2006	10:20	WS	AA3-SWSD-13	PBOW-06-SW-AA3-SW13-A	0605270-01	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	16:45	WQ	FIELDQC	PBOW-TB01-52006	0605288-14	TB1	plumbrookw003-	SW8260
5/20/2006	16:00	WS	AA2-SWSD-15	PBOW-06-SW-AA2-SW15-A	0605288-13	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270_PAH, SW8330, SW9012
5/20/2006	16:00	WS	AA2-SWSD-15	PBOW-06-SW-AA2-SW15-A	0605288-13RE	N1	plumbrookw003-	SW8270
5/20/2006	15:30	WS	AA2-SWSD-16	PBOW-06-SW-AA2-SW16-A	0605288-12	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270_PAH, SW8330, SW9012
5/20/2006	15:30	WS	AA2-SWSD-16	PBOW-06-SW-AA2-SW16-A	0605288-12RE	N1	plumbrookw003-	SW8270
5/20/2006	15:00	WS	AA2-SWSD-17	PBOW-06-SW-AA2-SW17-A	0605288-11	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	14:20	WS	AA2-SWSD-18	PBOW-06-SW-AA2-SW18-A	0605288-10	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	14:00	WS	AA2-SWSD-19	PBOW-06-SW-AA2-SW19-A	0605288-09	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270_PAH, SW8330, SW9012
5/20/2006	14:00	WS	AA2-SWSD-19	PBOW-06-SW-AA2-SW19-A	0605288-09RE	N1	plumbrookw003-	SW8270
5/20/2006	12:50	WS	AA2-SWSD-20	PBOW-06-SW-AA2-SW20-A	0605288-07	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330
5/20/2006	12:50	WS	AA2-SWSD-20	PBOW-06-SW-AA2-SW20-A	0605304-01	N1	plumbrookw003-	SW9012
5/20/2006	12:50	WS	AA2-SWSD-20	PBOW-06-SW-AA2-SW20-D	0605288-08	FD1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	12:20	WS	AA2-SWSD-21	PBOW-06-SW-AA2-SW21-A	0605288-06	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	11:40	WS	AA2-SWSD-22	PBOW-06-SW-AA2-SW22-A	0605288-05	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	11:20	WS	AA2-SWSD-23	PBOW-06-SW-AA2-SW23-A	0605288-04	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	10:40	WS	AA3-SWSD-04	PBOW-06-SW-AA3-SW04-A	0605288-03	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/20/2006	10:00	WS	AA3-SWSD-05	PBOW-06-SW-AA3-SW05-A	0605288-02	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012

Plum Brook Ordnance Works 2006 Sampling

Sample Date	Sample Time	Matrix	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
5/20/2006	9:40	WS	AA3-SWSD-06	PBOW-06-SW-AA3-SW06-A	0605288-01	N1	plumbrookw003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	14:30	WS	AA2-SWSD-04	PBOW-06-SW-AA2-SW04-A	0605288-26	N1	plumbrookw004-	SW8260
5/21/2006	14:30	WS	AA2-SWSD-04	PBOW-06-SW-AA2-SW04-A	0605305-12	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	14:10	WS	AA2-SWSD-05	PBOW-06-SW-AA2-SW05-A	0605288-25	N1	plumbrookw004-	SW8260
5/21/2006	14:10	WS	AA2-SWSD-05	PBOW-06-SW-AA2-SW05-A	0605305-11	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	13:00	WS	AA2-SWSD-06	PBOW-06-SW-AA2-SW06-A	0605288-24	N1	plumbrookw004-	SW8260
5/21/2006	13:00	WS	AA2-SWSD-06	PBOW-06-SW-AA2-SW06-A	0605305-10	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	12:20	WS	AA2-SWSD-07	PBOW-06-SW-AA2-SW07-A	0605288-23	N1	plumbrookw004-	SW8260
5/21/2006	12:20	WS	AA2-SWSD-07	PBOW-06-SW-AA2-SW07-A	0605305-09	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	12:00	WS	AA2-SWSD-08	PBOW-06-SW-AA2-SW08-A	0605288-22	N1	plumbrookw004-	SW8260
5/21/2006	12:00	WS	AA2-SWSD-08	PBOW-06-SW-AA2-SW08-A	0605305-08	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	11:30	WS	AA2-SWSD-09	PBOW-06-SW-AA2-SW09-A	0605288-21	N1	plumbrookw004-	SW8260
5/21/2006	11:30	WS	AA2-SWSD-09	PBOW-06-SW-AA2-SW09-A	0605305-07	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	11:00	WS	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605288-19	N1	plumbrookw004-	SW8260
5/21/2006	11:00	WS	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605305-05	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	11:00	WS	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-D	0605288-20	FD1	plumbrookw004-	SW8260
5/21/2006	11:00	WS	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-D	0605305-06	FD1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	10:20	WS	AA2-SWSD-11	PBOW-06-SW-AA2-SW11-A	0605288-18	N1	plumbrookw004-	SW8260
5/21/2006	10:20	WS	AA2-SWSD-11	PBOW-06-SW-AA2-SW11-A	0605305-04	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	10:10	WS	AA2-SWSD-12	PBOW-06-SW-AA2-SW12-A	0605288-17	N1	plumbrookw004-	SW8260
5/21/2006	10:10	WS	AA2-SWSD-12	PBOW-06-SW-AA2-SW12-A	0605305-03	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	9:40	WS	AA2-SWSD-13	PBOW-06-SW-AA2-SW13-A	0605288-16	N1	plumbrookw004-	SW8260
5/21/2006	9:40	WS	AA2-SWSD-13	PBOW-06-SW-AA2-SW13-A	0605305-02	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
5/21/2006	9:20	WS	AA2-SWSD-14	PBOW-06-SW-AA2-SW14-A	0605288-15	N1	plumbrookw004-	SW8260
5/21/2006	9:20	WS	AA2-SWSD-14	PBOW-06-SW-AA2-SW14-A	0605305-01	N1	plumbrookw004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	16:50	SE	AA3-SWSD-07	PBOW-06-SD-AA3-SD07-A	0606089-06	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	16:25	SE	AA3-SWSD-09	PBOW-06-SD-AA3-SD09-A	0606089-05	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	15:55	SE	AA3-SWSD-10	PBOW-06-SD-AA3-SD10-A	0606089-04	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	15:25	SE	AA3-SWSD-11	PBOW-06-SD-AA3-SD11-A	0606089-03	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012

Plum Brook Ordnance Works 2006 Sampling

Sample Date	Sample Time	Matrix	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
6/9/2006	15:00	SE	AA3-SWSD-12	PBOW-06-SD-AA3-SD12-A	0606089-02	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	14:30	SE	AA3-SWSD-13	PBOW-06-SD-AA3-SD13-A	0606089-01	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/9/2006	17:42	WQ	FIELDQC	PBOW-06-TB01-060906	0606089-07	TB1	plumbrooks003-	SW8260
6/10/2006	16:55	SE	AA2-SWSD-04	PBOW-06-SD-AA2-SD04-A	0606089-22	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	16:30	SE	AA2-SWSD-05	PBOW-06-SD-AA2-SD05-A	0606089-21	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	16:00	SE	AA2-SWSD-06	PBOW-06-SD-AA2-SD06-A	0606089-20	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	15:15	SE	AA2-SWSD-08	PBOW-06-SD-AA2-SD08-A	0606089-19	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	14:40	SE	AA2-SWSD-09	PBOW-06-SD-AA2-SD09-A	0606089-18DL	N1	plumbrooks003-	SW8082
6/10/2006	14:40	SE	AA2-SWSD-09	PBOW-06-SD-AA2-SD09-A	0606089-18	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	14:25	SE	AA2-SWSD-10	PBOW-06-SD-AA2-SD10-A	0606089-17DL	N1	plumbrooks003-	SW8082
6/10/2006	14:25	SE	AA2-SWSD-10	PBOW-06-SD-AA2-SD10-A	0606089-17	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	13:50	SE	AA2-SWSD-11	PBOW-06-SD-AA2-SD11-A	0606089-16DL	N1	plumbrooks003-	SW8082
6/10/2006	13:50	SE	AA2-SWSD-11	PBOW-06-SD-AA2-SD11-A	0606089-16	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	13:20	SE	AA2-SWSD-12	PBOW-06-SD-AA2-SD12-A	0606089-15DL	N1	plumbrooks003-	SW8082
6/10/2006	13:20	SE	AA2-SWSD-12	PBOW-06-SD-AA2-SD12-A	0606089-15	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	11:30	SE	AA2-SWSD-13	PBOW-06-SD-AA2-SD13-A	0606089-14	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	11:15	SE	AA2-SWSD-14	PBOW-06-SD-AA2-SD14-A	0606089-13	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	10:40	SE	AA2-SWSD-15	PBOW-06-SD-AA2-SD15-A	0606089-11	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	10:15	SE	AA3-SWSD-04	PBOW-06-SD-AA3-SD04-A	0606089-10	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	9:45	SE	AA3-SWSD-05	PBOW-06-SD-AA3-SD05-A	0606089-09	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/10/2006	9:15	SE	AA3-SWSD-06	PBOW-06-SD-AA3-SD06-A	0606089-08	N1	plumbrooks003-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	13:55	SE	AA2-SWSD-16	PBOW-06-SD-AA2-SD16-A	0606089-29	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	13:20	SE	AA2-SWSD-17	PBOW-06-SD-AA2-SD17-A	0606089-28DL	N1	plumbrooks004-	SW8082
6/11/2006	13:20	SE	AA2-SWSD-17	PBOW-06-SD-AA2-SD17-A	0606089-28	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	11:50	SE	AA2-SWSD-19	PBOW-06-SD-AA2-SD19-A	0606089-27DL	N1	plumbrooks004-	SW8082
6/11/2006	11:50	SE	AA2-SWSD-19	PBOW-06-SD-AA2-SD19-A	0606089-27	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	11:25	SE	AA2-SWSD-20	PBOW-06-SD-AA2-SD20-A	0606089-26DL	N1	plumbrooks004-	SW8082

Plum Brook Ordnance Works 2006 Sampling

Sample Date	Sample Time	Matrix	Location	Field Sample ID	Lab Sample_id	Sample Type	SDG	Method(s)
6/11/2006	11:25	SE	AA2-SWSD-20	PBOW-06-SD-AA2-SD20-A	0606089-26	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	11:10	SE	AA2-SWSD-21	PBOW-06-SD-AA2-SD21-A	0606089-25	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	10:30	SE	AA2-SWSD-22	PBOW-06-SD-AA2-SD22-A	0606089-24	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/11/2006	10:00	SE	AA2-SWSD-23	PBOW-06-SD-AA2-SD23-A	0606089-23	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	10:35	SE	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30DL	N1	plumbrooks004-	SW8082
6/12/2006	10:35	SE	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	10:35	SE	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-D	0606089-31	FD1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	11:15	SE	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32DL	N1	plumbrooks004-	SW8082
6/12/2006	11:15	SE	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	11:15	SE	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-D	0606089-33DL	FD1	plumbrooks004-	SW8082
6/12/2006	11:15	SE	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-D	0606089-33	FD1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	8:40	SE	AA3-SWSD-08	PBOW-06-SD-AA3-SD08-A	0606089-34	N1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	8:40	SE	AA3-SWSD-08	PBOW-06-SD-AA3-SD08-D	0606089-35	FD1	plumbrooks004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
6/12/2006	12:40	WQ	FIELDQC	PBOW-06-TB02-061206	0606089-36	TB1	plumbrooks004-	SW8260

ATTACHMENT 2

TEST RESULT TABLES WITH REVIEW QUALIFIERS APPLIED

Qualifier Definitions:

=	result is greater than reporting limit;
TR	result is greater than detection limit, but less than reporting limit;
J	result is estimated;
BJ	result is estimated, compound detected in associated blank;
U	non-detect;
UJ	estimated non-detect;
R	result is rejected, data is unusable.

The value associated with the "ND/U" flag is the detection limit.

Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006		AA2-SWSD-08 05/21/2006		AA2-SWSD-09 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Explosives																
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
3-Nitrotoluene	SW8330		12	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
HMX	SW8330		180	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
Nitrobenzene	SW8330		0.34	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.099	U	0.1	U
RDX	SW8330		0.61	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
Tetryl	SW8330		36	ug/L	0.094	U	0.092	U	0.093	U	0.092	U	0.09	U	0.094	U
Metals																
Aluminum	SW6010	1110	3600	ug/L	775		1110		100	U	409		335		212	
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	37.4	J	37.2	J	38.8	J	34.8	J	34.1	J	33.2	J
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	80600		76400		219000		104000		106000		117000	
Chromium	SW6010			ug/L	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	**1360**		**1200**		30	U	576		494		341	
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	26.3		2.9	J	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	19600		18500		28900		22500		23600		24000	
Manganese	SW6010	227	88	ug/L	86.8		16.4		9.3	J	32.8		36.9		30	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	2570		3430		1100	J	2360		2270		1630	J
Selenium	SW6010		18	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	4190		3920		4620		4160		4410		4060	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	12.5	J	5.4	J	5	U	5	U	5	U	5	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006		AA2-SWSD-08 05/21/2006		AA2-SWSD-09 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
1-Methylnaphthalene	SW8270_PAH			ug/L	0.01	UJ	0.01	UJ	0.011	UJ	0.01	UJ	0.01	UJ	0.01	UJ
2-Methylnaphthalene	SW8270_PAH			ug/L	0.016	UJ	0.016	UJ	0.017	UJ	0.016	UJ	0.016	UJ	0.016	UJ
Acenaphthene	SW8270_PAH			ug/L	0.01	UJ	0.01	UJ	0.011	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Acenaphthylene	SW8270_PAH			ug/L	0.0087	UJ	0.0085	UJ	0.0091	UJ	0.0087	UJ	0.0087	UJ	0.0085	UJ
Anthracene	SW8270_PAH		180	ug/L	0.0097	UJ	0.0095	UJ	0.01	UJ	0.0097	UJ	0.0097	UJ	0.0095	UJ
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	UJ	0.01	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.01	UJ
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.0097	UJ	0.0095	UJ	0.01	UJ	0.0097	UJ	0.0097	UJ	0.0095	UJ
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.016	UJ	0.016	UJ	0.017	UJ	0.016	UJ	0.016	UJ	0.016	UJ
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.013	UJ	0.013	UJ	0.014	UJ	0.013	UJ	0.013	UJ	0.013	UJ
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.013	UJ	0.013	UJ	0.014	UJ	0.013	UJ	0.013	UJ	0.013	UJ
Chrysene	SW8270_PAH		9.2	ug/L	0.0092	UJ	0.009	UJ	0.0097	UJ	0.0092	UJ	0.0092	UJ	0.009	UJ
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.012	UJ	0.012	UJ	0.013	UJ	0.012	UJ	0.012	UJ	0.012	UJ
Fluoranthene	SW8270_PAH		150	ug/L	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ
Fluorene	SW8270_PAH		24	ug/L	0.013	UJ	0.012	UJ	0.013	UJ	0.013	UJ	0.013	UJ	0.012	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.018	UJ	0.018	UJ	0.019	UJ	0.018	UJ	0.018	UJ	0.018	UJ
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.019	UJ	0.019	UJ	0.02	UJ	0.029	J	0.019	UJ	0.019	UJ
Phenanthrene	SW8270_PAH			ug/L	0.014	UJ	0.014	UJ	0.015	UJ	0.014	UJ	0.014	UJ	0.014	UJ
Pyrene	SW8270_PAH		18	ug/L	0.011	UJ	0.01	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.01	UJ
Polychlorinated Biphenyls (PCBs)																
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
1,2-Dichlorobenzene	SW8270		37	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
1,3-Dichlorobenzene	SW8270		18	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4,5-Trichlorophenol	SW8270		360	ug/L	1	UJ	1.1	UJ		UR	1	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	10	UJ	11	UJ		UR	10	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
2-Chloronaphthalene	SW8270		49	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ

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Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006		AA2-SWSD-08 05/21/2006		AA2-SWSD-09 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2-Methylnaphthalene	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
2-Nitrophenol	SW8270			ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
3-Methylphenol	SW8270		180	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1	UJ	1.1	UJ		UR	1	UJ	1	UJ	1	UJ
4-Bromophenyl phenyl ether	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
4-Chloro-3-methylphenol	SW8270			ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
4-Chlorophenyl phenyl ether	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
4-Nitrophenol	SW8270			ug/L	5	UJ	5.4	UJ		UR	5.1	UJ	5.1	UJ	5	UJ
Acenaphthene	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Acenaphthylene	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Anthracene	SW8270		180	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzo(a)anthracene	SW8270		0.092	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzo(a)pyrene	SW8270		0.0092	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzo(g,h,i)perylene	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzoic acid	SW8270		15000	ug/L		UR		UR		UR		UR		UR		UR
Benzyl alcohol	SW8270		1100	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Benzyl butyl phthalate	SW8270		730	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Carbazole	SW8270		3.4	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Chrysene	SW8270		9.2	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Di-n-butylphthalate	SW8270		360	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Di-n-octylphthalate	SW8270		150	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Dibenzofuran	SW8270		1.2	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Diethylphthalate	SW8270		2900	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Dimethylphthalate	SW8270		36000	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Fluoranthene	SW8270		150	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Fluorene	SW8270		24	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Hexachlorobenzene	SW8270		0.042	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Hexachlorobutadiene	SW8270		0.86	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Hexachlorocyclopentadiene	SW8270		22	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Hexachloroethane	SW8270		4.8	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ

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Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-04 05/21/2006		AA2-SWSD-05 05/21/2006		AA2-SWSD-06 05/21/2006		AA2-SWSD-07 05/21/2006		AA2-SWSD-08 05/21/2006		AA2-SWSD-09 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Isophorone	SW8270		71	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	0.8	U	0.87	U	0.82	U	0.82	U	0.82	UJ	0.8	UJ
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
N-Nitrosodiphenylamine	SW8270		14	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Naphthalene	SW8270		0.62	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Nitrobenzene	SW8270		0.34	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Pentachlorophenol	SW8270		0.56	ug/L	1	UJ	1.1	UJ		UR	1	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
Phenol	SW8270		1100	ug/L	1	UJ	1.1	UJ		UR	1	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
bis(2-Chloroethoxy)methane	SW8270			ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1	U	1.1	U	1	U	1	U	1	UJ	1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	1	U	1.1	U	1.8	JB	1.9	JB	1.8	JB	1.7	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-04 05/21/2006 Result	VQ	AA2-SWSD-05 05/21/2006 Result	VQ	AA2-SWSD-06 05/21/2006 Result	VQ	AA2-SWSD-07 05/21/2006 Result	VQ	AA2-SWSD-08 05/21/2006 Result	VQ	AA2-SWSD-09 05/21/2006 Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Explosives																
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.12	U	0.13	U	0.12	U	0.12	U	0.12	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.12	U	0.13	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.13	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
3-Nitrotoluene	SW8330		12	ug/L	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.13	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
HMX	SW8330		180	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
Nitrobenzene	SW8330		0.34	ug/L	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.098	U
RDX	SW8330		0.61	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
Tetryl	SW8330		36	ug/L	0.096	U	0.098	U	0.092	U	0.093	U	0.091	U	0.089	U
Metals																
Aluminum	SW6010	1110	3600	ug/L	146	J	649		158	J	100	U	100	U	112	J
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	34.1	J	37.5	J	35.4	J	34.3	J	34	J	33.8	J
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	119000		120000		121000		120000		121000		122000	
Chromium	SW6010			ug/L	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	7.4	J	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	307		**1330**		573		314		213		219	
Lead	SW6010	26.3		ug/L	1.5	U	3.3		1.5	U	1.5	U	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	24700		24800		24600		24400		25000		25300	
Manganese	SW6010	227	88	ug/L	31.6		49.9		42.1		44.4		34.1		29.5	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	1780	J	1810	J	1770	J	1900	J	1770	J	1850	J
Selenium	SW6010		18	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	4350		4350		4320		4250		4330		4340	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	5	U	5.7	J	5	U	5	U	5	U	5	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
1-Methylnaphthalene	SW8270_PAH			ug/L	0.011	UJ	0.011	UJ	0.011	UJ	0.01	UJ	0.01	UJ	0.012	UJ
2-Methylnaphthalene	SW8270_PAH			ug/L	0.017	UJ	0.017	UJ	0.017	UJ	0.017	UJ	0.016	UJ	0.02	UJ
Acenaphthene	SW8270_PAH			ug/L	0.011	UJ	0.011	UJ	0.011	UJ	0.01	UJ	0.01	UJ	0.012	UJ
Acenaphthylene	SW8270_PAH			ug/L	0.009	UJ	0.009	UJ	0.0092	UJ	0.0089	UJ	0.0086	UJ	0.011	UJ
Anthracene	SW8270_PAH		180	ug/L	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.0096	UJ	0.012	UJ
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.013	UJ
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.0096	UJ	0.012	UJ
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.017	UJ	0.017	UJ	0.017	UJ	0.017	UJ	0.016	UJ	0.02	UJ
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.013	UJ	0.016	UJ
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.013	UJ	0.016	UJ
Chrysene	SW8270_PAH		9.2	ug/L	0.0096	UJ	0.0096	UJ	0.0098	UJ	0.0095	UJ	0.0091	UJ	0.011	UJ
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.013	UJ	0.013	UJ	0.013	UJ	0.013	UJ	0.012	UJ	0.015	UJ
Fluoranthene	SW8270_PAH		150	ug/L	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ	0.014	UJ
Fluorene	SW8270_PAH		24	ug/L	0.013	UJ	0.013	UJ	0.014	UJ	0.013	UJ	0.013	UJ	0.016	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.019	UJ	0.019	UJ	0.02	UJ	0.019	UJ	0.018	UJ	0.022	UJ
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.029	JB	0.02	UJ	0.026	JB	0.02	UJ	0.019	UJ	0.024	UJ
Phenanthrene	SW8270_PAH			ug/L	0.015	UJ	0.015	UJ	0.015	UJ	0.015	UJ	0.014	UJ	0.018	UJ
Pyrene	SW8270_PAH		18	ug/L	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.013	UJ
Polychlorinated Biphenyls (PCBs)																
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U	0.13	U
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
1,2-Dichlorobenzene	SW8270		37	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
1,3-Dichlorobenzene	SW8270		18	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2,4,5-Trichlorophenol	SW8270		360	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	11	UJ	11	UJ	11	UJ	10	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
2-Chloronaphthalene	SW8270		49	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
2-Methylnaphthalene	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
2-Nitrophenol	SW8270			ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
3-Methylphenol	SW8270		180	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4-Bromophenyl phenyl ether	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4-Chloro-3-methylphenol	SW8270			ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4-Chlorophenyl phenyl ether	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
4-Nitrophenol	SW8270			ug/L	5.4	UJ	5.3	UJ	5.7	UJ	5.2	UJ	5.2	UJ	5.1	UJ
Acenaphthene	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Acenaphthylene	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Anthracene	SW8270		180	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzo(a)anthracene	SW8270		0.092	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzo(a)pyrene	SW8270		0.0092	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzo(g,h,i)perylene	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzoic acid	SW8270		15000	ug/L		UR		UR		UR		UR		UR		UR
Benzyl alcohol	SW8270		1100	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Benzyl butyl phthalate	SW8270		730	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Carbazole	SW8270		3.4	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Chrysene	SW8270		9.2	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Di-n-butylphthalate	SW8270		360	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Di-n-octylphthalate	SW8270		150	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Dibenzofuran	SW8270		1.2	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Diethylphthalate	SW8270		2900	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Dimethylphthalate	SW8270		36000	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Fluoranthene	SW8270		150	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Fluorene	SW8270		24	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Hexachlorobenzene	SW8270		0.042	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Hexachlorobutadiene	SW8270		0.86	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
Hexachlorocyclopentadiene	SW8270		22	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
Hexachloroethane	SW8270		4.8	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Foun[illegible] [illegible]ank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Isophorone	SW8270		71	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	0.87	U	0.85	UJ	0.91	UJ	0.83	UJ	0.82	UJ	0.82	U
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
N-Nitrosodiphenylamine	SW8270		14	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Naphthalene	SW8270		0.62	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Nitrobenzene	SW8270		0.34	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Pentachlorophenol	SW8270		0.56	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
Phenol	SW8270		1100	ug/L	1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
bis(2-Chloroethoxy)methane	SW8270			ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1.1	U	1.1	UJ	1.1	UJ	1	UJ	1	UJ	1	U
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	2.2	JB	2.1	JB	2	JB	1.8	JB	1.8	JB	1.9	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-10 05/21/2006		AA2-SWSD-10 (field dup) 05/21/2006		AA2-SWSD-11 05/21/2006		AA2-SWSD-12 05/21/2006		AA2-SWSD-13 05/21/2006		AA2-SWSD-14 05/21/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-15 05/20/2006 Result	VQ	AA2-SWSD-16 05/20/2006 Result	VQ	AA2-SWSD-17 05/20/2006 Result	VQ	AA2-SWSD-18 05/20/2006 Result	VQ	AA2-SWSD-19 05/20/2006 Result	VQ	AA2-SWSD-20 05/20/2006 Result	VQ
Wet Chemistry																
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Explosives																
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.12	U	0.12	U	0.12	U	0.13	U	0.11	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.12	U	0.12	U	0.12	U	0.13	U	0.11	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.14	U	0.13	U	0.14	U	0.15	U	0.13	U	0.13	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
3-Nitrotoluene	SW8330		12	ug/L	0.14	U	0.13	U	0.14	U	0.15	U	0.13	U	0.13	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
HMX	SW8330		180	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
Nitrobenzene	SW8330		0.34	ug/L	0.1	U	0.098	U	0.1	U	0.11	U	0.095	U	0.098	U
RDX	SW8330		0.61	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
Tetryl	SW8330		36	ug/L	0.092	U	0.089	U	0.09	U	0.1	U	0.086	U	0.089	U
Metals																
Aluminum	SW6010	1110	3600	ug/L	199	J	109	J	100	U	100	U	100	U	100	U
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	35.3	J	42.8		33.1	J	33.8	J	34.6	J	32.9	J
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	118000		102000		98000		103000		106000		107000	
Chromium	SW6010			ug/L	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	292		**4610**		624		673		265		220	
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	3.1	
Magnesium	SW6010	28900		ug/L	24500		22300		20900		22000		22500		23100	
Manganese	SW6010	227	88	ug/L	25.3		**227**		78		65.3		25.5		56.3	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	1940	J	1760	J	2180		2140		2290		2370	
Selenium	SW6010		18	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	5810		3990		3380		3510		3680		3850	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U	5	U	5	U	5	U	5	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-15 05/20/2006		AA2-SWSD-16 05/20/2006		AA2-SWSD-17 05/20/2006		AA2-SWSD-18 05/20/2006		AA2-SWSD-19 05/20/2006		AA2-SWSD-20 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
1-Methylnaphthalene	SW8270_PAH			ug/L	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U	0.01	U
2-Methylnaphthalene	SW8270_PAH			ug/L	0.017	U	0.017	U	0.016	U	0.017	U	0.016	U	0.016	U
Acenaphthene	SW8270_PAH			ug/L	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U	0.01	U
Acenaphthylene	SW8270_PAH			ug/L	0.0088	U	0.0092	U	0.0087	U	0.0092	U	0.0087	U	0.0088	U
Anthracene	SW8270_PAH		180	ug/L	0.0099	U	0.01	U	0.0097	U	0.01	U	0.0097	U	0.0098	U
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.0099	U	0.01	U	0.0097	U	0.01	U	0.0097	U	0.0098	U
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.017	U	0.017	U	0.016	U	0.017	U	0.016	U	0.016	U
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.014	U	0.014	U	0.013	U	0.014	U	0.013	U	0.013	U
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.014	U	0.014	U	0.013	U	0.014	U	0.013	U	0.013	U
Chrysene	SW8270_PAH		9.2	ug/L	0.0094	U	0.0098	U	0.0092	U	0.0098	U	0.0092	U	0.0093	U
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.012	U	0.013	U	0.012	U	0.013	U	0.012	U	0.012	U
Fluoranthene	SW8270_PAH		150	ug/L	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U
Fluorene	SW8270_PAH		24	ug/L	0.013	U	0.014	U	0.013	U	0.014	U	0.013	U	0.013	U
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.019	U	0.02	U	0.018	U	0.02	U	0.018	U	0.018	U
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.032	J	0.036	J	0.038	J	0.041	J	0.033	J	0.036	J
Phenanthrene	SW8270_PAH			ug/L	0.014	U	0.015	U	0.014	U	0.015	U	0.014	U	0.014	U
Pyrene	SW8270_PAH		18	ug/L	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Polychlorinated Biphenyls (PCBs)																
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U	0.13	U
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
1,2-Dichlorobenzene	SW8270		37	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
1,3-Dichlorobenzene	SW8270		18	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
2,4,5-Trichlorophenol	SW8270		360	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	14	UJ	11	UJ	10	UJ	11	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
2-Chloronaphthalene	SW8270		49	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Foun. ..nk, N - Presumptive evidence of a compound

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-15 05/20/2006		AA2-SWSD-16 05/20/2006		AA2-SWSD-17 05/20/2006		AA2-SWSD-18 05/20/2006		AA2-SWSD-19 05/20/2006		AA2-SWSD-20 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	UJ	1	UJ	1	UJ
2-Methylnaphthalene	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
2-Nitrophenol	SW8270			ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
3-Methylphenol	SW8270		180	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
4-Bromophenyl phenyl ether	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
4-Chloro-3-methylphenol	SW8270			ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
4-Chlorophenyl phenyl ether	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
4-Nitrophenol	SW8270			ug/L		UR	5.3	UJ	5.2	UJ	5.3	UJ	5	UJ	5.3	UJ
Acenaphthene	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Acenaphthylene	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Anthracene	SW8270		180	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Benzo(a)anthracene	SW8270		0.092	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Benzo(a)pyrene	SW8270		0.0092	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1.4	UJ	1.1	U	1	U	1.1	U	1	UJ	1	UJ
Benzo(g,h,i)perylene	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Benzoic acid	SW8270		15000	ug/L		UR		UR	1	UJ	1.1	UJ		UR	1	UJ
Benzyl alcohol	SW8270		1100	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
Benzyl butyl phthalate	SW8270		730	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Carbazole	SW8270		3.4	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Chrysene	SW8270		9.2	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Di-n-butylphthalate	SW8270		360	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Di-n-octylphthalate	SW8270		150	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Dibenzofuran	SW8270		1.2	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Diethylphthalate	SW8270		2900	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Dimethylphthalate	SW8270		36000	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Fluoranthene	SW8270		150	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Fluorene	SW8270		24	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Hexachlorobenzene	SW8270		0.042	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Hexachlorobutadiene	SW8270		0.86	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Hexachlorocyclopentadiene	SW8270		22	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Hexachloroethane	SW8270		4.8	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-15 05/20/2006		AA2-SWSD-16 05/20/2006		AA2-SWSD-17 05/20/2006		AA2-SWSD-18 05/20/2006		AA2-SWSD-19 05/20/2006		AA2-SWSD-20 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	U	1	UJ
Isophorone	SW8270		71	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	1.2	UJ	0.85	UJ	0.83	U	0.85	U	0.8	UJ	0.84	UJ
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
N-Nitrosodiphenylamine	SW8270		14	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Naphthalene	SW8270		0.62	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Nitrobenzene	SW8270		0.34	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Pentachlorophenol	SW8270		0.56	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
Phenol	SW8270		1100	ug/L	1.4	UJ	1.1	UJ	1	UJ	1.1	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
bis(2-Chloroethoxy)methane	SW8270			ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1.4	UJ	1.1	UJ	1	U	1.1	U	1	UJ	1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	1.4	UJ	2	JB	2	JB	3	JB	5	JB	1	UJ
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U

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					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	**0.3**	**J**
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-20 (field dup) 05/20/2006		AA2-SWSD-21 05/20/2006		AA2-SWSD-22 05/20/2006		AA2-SWSD-23 05/20/2006		AA3-SWSD-04 05/20/2006		AA3-SWSD-05 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Explosives																
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.12	U	0.11	U	0.11	U	0.11	U	0.12	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.12	U	0.11	U	0.11	U	0.11	U	0.12	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
3-Nitrotoluene	SW8330		12	ug/L	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
HMX	SW8330		180	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
Nitrobenzene	SW8330		0.34	ug/L	0.1	U	0.095	U	0.094	U	0.096	U	0.098	U	0.099	U
RDX	SW8330		0.61	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
Tetryl	SW8330		36	ug/L	0.093	U	0.086	U	0.086	U	0.088	U	0.09	U	0.09	U
Metals																
Aluminum	SW6010	1110	3600	ug/L	100	U	100	U	100	U	100	U	100	U	100	U
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	32.7	J	35.2	J	36.2	J	37	J	34.1	J	40.1	
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	104000		106000		263000		105000		102000		113000	
Chromium	SW6010			ug/L	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	315		102		56.2	J	60.3	J	144		454	
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	22700		23200		23100		23300		23800		26300	
Manganese	SW6010	227	88	ug/L	61.4		9.1	J	6.3	J	3.3	J	48		55.2	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	2310		1960	J	1670	J	1680	J	613	J	637	J
Selenium	SW6010		18	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	3680		3780		3730		4030		3250		3430	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	7.6	J	5	U	5	U	5	U	5	U	5	U

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					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
1-Methylnaphthalene	SW8270_PAH			ug/L	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
2-Methylnaphthalene	SW8270_PAH			ug/L	0.017	U	0.016	U	0.016	U	0.016	U	0.017	U	0.016	U
Acenaphthene	SW8270_PAH			ug/L	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Acenaphthylene	SW8270_PAH			ug/L	0.0088	U	0.0087	U	0.0085	U	0.0087	U	0.0089	U	0.0087	U
Anthracene	SW8270_PAH		180	ug/L	0.0099	U	0.0097	U	0.0095	U	0.0097	U	0.01	U	0.0097	U
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.011	U
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.0099	U	0.0097	U	0.0095	U	0.0097	U	0.01	U	0.0097	U
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.017	U	0.016	U	0.016	U	0.016	U	0.017	U	0.016	U
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.014	U	0.013	U	0.013	U	0.013	U	0.014	U	0.013	U
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.014	U	0.013	U	0.013	U	0.013	U	0.014	U	0.013	U
Chrysene	SW8270_PAH		9.2	ug/L	0.0094	U	0.0092	U	0.009	U	0.0092	U	0.0095	U	0.0092	U
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.012	U	0.012	U	0.012	U	0.012	U	0.013	U	0.012	U
Fluoranthene	SW8270_PAH		150	ug/L	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U
Fluorene	SW8270_PAH		24	ug/L	0.013	U	0.013	U	0.012	U	0.013	U	0.013	U	0.013	U
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.019	U	0.018	U	0.018	U	0.018	U	0.019	U	0.018	U
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.033	J	0.044	J	0.037	J	0.033	J	0.042	J	0.042	J
Phenanthrene	SW8270_PAH			ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.015	U	0.014	U
Pyrene	SW8270_PAH		18	ug/L	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.011	U
Polychlorinated Biphenyls (PCBs)																
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
1,2-Dichlorobenzene	SW8270		37	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
1,3-Dichlorobenzene	SW8270		18	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
2,4,5-Trichlorophenol	SW8270		360	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	10	UJ	10	UJ	10	UJ	14	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
2-Chloronaphthalene	SW8270		49	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ

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					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1	U	1	UJ	1	U	1.4	UJ	1	UJ	1	UJ
2-Methylnaphthalene	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
2-Nitrophenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
3-Methylphenol	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
4-Bromophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
4-Chloro-3-methylphenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
4-Chlorophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
4-Nitrophenol	SW8270			ug/L	5.1	UJ	5	UJ	5	UJ	7.1	UJ	5.3	UJ	5.1	UJ
Acenaphthene	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Acenaphthylene	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Anthracene	SW8270		180	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzo(a)anthracene	SW8270		0.092	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzo(a)pyrene	SW8270		0.0092	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzo(g,h,i)perylene	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Benzoic acid	SW8270		15000	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ		UR	1	UJ
Benzyl alcohol	SW8270		1100	ug/L	1	UJ	1	UJ	1	UJ	1.4	U	1	U	1	UJ
Benzyl butyl phthalate	SW8270		730	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Carbazole	SW8270		3.4	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Chrysene	SW8270		9.2	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Di-n-butylphthalate	SW8270		360	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Di-n-octylphthalate	SW8270		150	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Dibenzofuran	SW8270		1.2	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Diethylphthalate	SW8270		2900	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Dimethylphthalate	SW8270		36000	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Fluoranthene	SW8270		150	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Fluorene	SW8270		24	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Hexachlorobenzene	SW8270		0.042	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Hexachlorobutadiene	SW8270		0.86	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Hexachlorocyclopentadiene	SW8270		22	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Hexachloroethane	SW8270		4.8	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ

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					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Isophorone	SW8270		71	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	0.82	U	0.81	U	0.81	U	1.1	U	0.84	U	0.82	UJ
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
N-Nitrosodiphenylamine	SW8270		14	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Naphthalene	SW8270		0.62	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Nitrobenzene	SW8270		0.34	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Pentachlorophenol	SW8270		0.56	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
Phenol	SW8270		1100	ug/L	1	UJ	1	UJ	1	UJ	1.4	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
bis(2-Chloroethoxy)methane	SW8270			ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1	U	1	U	1	U	1.4	U	1	U	1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	2	JB	2	JB	3	JB	4	JB	3	JB	2	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.24	J	3.8	
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.89	J
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Surface Water Data

Analyte	Method	Max. Detect	Action Level	Location Date Units	AA2-SWSD-20 (field dup) 05/20/2006		AA2-SWSD-21 05/20/2006		AA2-SWSD-22 05/20/2006		AA2-SWSD-23 05/20/2006		AA3-SWSD-04 05/20/2006		AA3-SWSD-05 05/20/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site.
PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	8.7	J	5	U	5	U	5	U
Explosives																
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.11	U	0.12	U	0.12	U	0.14	U	0.12	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.11	U	0.12	U	0.12	U	0.14	U	0.12	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.13	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
3-Nitrotoluene	SW8330		12	ug/L	0.13	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
HMX	SW8330		180	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
Nitrobenzene	SW8330		0.34	ug/L	0.096	U	0.1	U	0.1	U	0.12	U	0.1	U	0.1	U
RDX	SW8330		0.61	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
Tetryl	SW8330		36	ug/L	0.088	U	0.095	U	0.094	U	0.11	U	0.094	U	0.092	U
Metals																
Aluminum	SW6010	1110	3600	ug/L	127	J	100	U	100	U	100	U	100	U	100	U
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	34.2	J	33.4	J	32.9	J	35.3	J	37.6	J	36.4	J
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	97200		94900		93400		99400		111000		115000	
Chromium	SW6010			ug/L	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	258		185		168		175		121		140	
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	21600		21000		20700		22100		23500		23600	
Manganese	SW6010	227	88	ug/L	19		29.9		29.2		44.9		30.1		25.9	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	500	U	500	U	500	U	500	U	564	J	536	J
Selenium	SW6010		18	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	3280		3150		3020		3560		3940		3910	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U	5	U	5	U	5	U	5	U

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Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																
1-Methylnaphthalene	SW8270_PAH			ug/L	0.01	U	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
2-Methylnaphthalene	SW8270_PAH			ug/L	0.017	U	0.016	UJ	0.017	UJ	0.016	UJ	0.016	UJ	0.016	UJ
Acenaphthene	SW8270_PAH			ug/L	0.01	U	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Acenaphthylene	SW8270_PAH			ug/L	0.0088	U	0.0088	UJ	0.0089	UJ	0.0086	UJ	0.0088	UJ	0.0087	UJ
Anthracene	SW8270_PAH		180	ug/L	0.0099	U	0.0098	UJ	0.01	UJ	0.0096	UJ	0.0098	UJ	0.0097	UJ
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	U	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.0099	U	0.0098	UJ	0.01	UJ	0.0096	UJ	0.0098	UJ	0.0097	UJ
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.017	U	0.016	UJ	0.017	UJ	0.016	UJ	0.016	UJ	0.016	UJ
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.014	U	0.013	UJ	0.014	UJ	0.013	UJ	0.013	UJ	0.013	UJ
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.014	U	0.013	UJ	0.014	UJ	0.013	UJ	0.013	UJ	0.013	UJ
Chrysene	SW8270_PAH		9.2	ug/L	0.0094	U	0.0093	UJ	0.0095	UJ	0.0091	UJ	0.0093	UJ	0.0092	UJ
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.012	U	0.012	UJ	0.013	UJ	0.012	UJ	0.012	UJ	0.012	UJ
Fluoranthene	SW8270_PAH		150	ug/L	0.012	U	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ	0.012	UJ
Fluorene	SW8270_PAH		24	ug/L	0.013	U	0.013	UJ	0.013	UJ	0.013	UJ	0.013	UJ	0.013	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.019	U	0.019	UJ	0.019	UJ	0.018	UJ	0.019	UJ	0.018	UJ
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.038	J	0.034	J	0.02	UJ	0.037	J	0.043	J	0.019	UJ
Phenanthrene	SW8270_PAH			ug/L	0.014	U	0.014	UJ	0.015	UJ	0.014	UJ	0.014	UJ	0.014	UJ
Pyrene	SW8270_PAH		18	ug/L	0.011	U	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.011	UJ
Polychlorinated Biphenyls (PCBs)																
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	SW8270		37	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	SW8270		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
2,4,5-Trichlorophenol	SW8270		360	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
2-Chloronaphthalene	SW8270		49	ug/L	1	U	1	U	1	U	1	U	1	U	1	U

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1	UJ	1	UJ	1	UJ	1	U	1	UJ	1	UJ
2-Methylnaphthalene	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
2-Nitrophenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	U
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
3-Methylphenol	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
4-Bromophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
4-Chloro-3-methylphenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
4-Chlorophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
4-Nitrophenol	SW8270			ug/L	5.1	UJ	5.2	UJ	5.2	UJ	5.1	UJ	5.2	UJ	5.2	UJ
Acenaphthene	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Acenaphthylene	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Anthracene	SW8270		180	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(a)anthracene	SW8270		0.092	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(a)pyrene	SW8270		0.0092	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(g,h,i)perylene	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzoic acid	SW8270		15000	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Benzyl alcohol	SW8270		1100	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Benzyl butyl phthalate	SW8270		730	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Carbazole	SW8270		3.4	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Chrysene	SW8270		9.2	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Di-n-butylphthalate	SW8270		360	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Di-n-octylphthalate	SW8270		150	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Dibenzofuran	SW8270		1.2	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Diethylphthalate	SW8270		2900	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Dimethylphthalate	SW8270		36000	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Fluoranthene	SW8270		150	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Fluorene	SW8270		24	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Hexachlorobenzene	SW8270		0.042	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Hexachlorobutadiene	SW8270		0.86	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Hexachlorocyclopentadiene	SW8270		22	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Hexachloroethane	SW8270		4.8	ug/L	1	U	1	U	1	U	1	U	1	U	1	U

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Isophorone	SW8270		71	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	0.82	U	0.83	U	0.83	U	0.81	U	0.83	U	0.83	U
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
N-Nitrosodiphenylamine	SW8270		14	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Naphthalene	SW8270		0.62	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Nitrobenzene	SW8270		0.34	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Pentachlorophenol	SW8270		0.56	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
Phenol	SW8270		1100	ug/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
bis(2-Chloroethoxy)methane	SW8270			ug/L	1	U	1	U	1	U	1	U	1	U	1	U
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1	U	1	U	1	U	1	U	1	U	1	U
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	2	JB	2	JB	2	JB	2	JB	2	JB	3	JB
Volatile Organic Compounds																
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.68	J	0.6	J	0.61	J	0.42	J	0.34	J	0.15	U
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found ..ank, N - Presumptive evidence of a compound

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-06 05/20/2006		AA3-SWSD-07 05/19/2006		AA3-SWSD-07 (field dup) 05/19/2006		AA3-SWSD-08 05/19/2006		AA3-SWSD-09 05/19/2006		AA3-SWSD-10 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ
Wet Chemistry										
Cyanide	SW9012	8.7	73	ug/L	5	U	5	U	5	U
Explosives										
1,3,5-Trinitrobenzene	SW8330		110	ug/L	0.091	U	0.095	U	0.096	U
1,3-Dinitrobenzene	SW8330		0.36	ug/L	0.091	U	0.095	U	0.096	U
2,4,6-Trinitrotoluene	SW8330		2.2	ug/L	0.091	U	0.095	U	0.096	U
2,4-Dinitrotoluene	SW8330		7.3	ug/L	0.12	U	0.12	U	0.12	U
2,6-Dinitrotoluene	SW8330		3.6	ug/L	0.12	U	0.12	U	0.12	U
2-Amino-4,6-Dinitrotoluene	SW8330			ug/L	0.14	U	0.14	U	0.14	U
2-Nitrotoluene	SW8330		0.049	ug/L	0.091	U	0.095	U	0.096	U
3-Nitrotoluene	SW8330		12	ug/L	0.14	U	0.14	U	0.14	U
4-Amino-2,6-Dinitrotoluene	SW8330			ug/L	0.091	U	0.095	U	0.096	U
4-Nitrotoluene	SW8330		0.66	ug/L	0.091	U	0.095	U	0.096	U
HMX	SW8330		180	ug/L	0.091	U	0.095	U	0.096	U
Nitrobenzene	SW8330		0.34	ug/L	0.1	U	0.1	U	0.1	U
RDX	SW8330		0.61	ug/L	0.091	U	0.095	U	0.096	U
Tetryl	SW8330		36	ug/L	0.091	U	0.095	U	0.096	U
Metals										
Aluminum	SW6010	1110	3600	ug/L	100	U	195	J	100	U
Antimony	SW6010		1.5	ug/L	5	U	5	U	5	U
Arsenic	SW6010		0.045	ug/L	3	U	3	U	3	U
Barium	SW6010	43.1	260	ug/L	37.8	J	43.1		40.5	
Beryllium	SW6010		7.3	ug/L	1	U	1	U	1	U
Cadmium	SW6010		1.8	ug/L	1	U	1	U	1	U
Calcium	SW6010	263000		ug/L	113000		116000		112000	
Chromium	SW6010			ug/L	2	U	2	U	2	U
Cobalt	SW6010		73	ug/L	3	U	3	U	3	U
Copper	SW6010	7.4	150	ug/L	4	U	4	U	4	U
Iron	SW6010	4610	1100	ug/L	134		264		117	
Lead	SW6010	26.3		ug/L	1.5	U	1.5	U	1.5	U
Magnesium	SW6010	28900		ug/L	23900		24500		23900	
Manganese	SW6010	227	88	ug/L	23.9		74.1		28	
Mercury (total)	SW7470			ug/L	0.08	U	0.08	U	0.08	U
Nickel	SW6010		73	ug/L	3	U	3	U	3	U
Potassium	SW6010	3430		ug/L	567	J	821	J	703	J
Selenium	SW6010		18	ug/L	3	U	3	U	3	U
Silver	SW6010		18	ug/L	1	U	1	U	1	U
Sodium	SW6010	5810		ug/L	4540		5290		5490	
Thallium	SW6010		0.24	ug/L	3	U	3	U	3	U
Vanadium	SW6010		3.6	ug/L	3	U	3	U	3	U
Zinc	SW6010	12.5	1100	ug/L	5	U	5	U	5	U

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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds										
1-Methylnaphthalene	SW8270_PAH			ug/L	0.011	UJ	0.01	UJ	0.01	U
2-Methylnaphthalene	SW8270_PAH			ug/L	0.017	UJ	0.016	UJ	0.016	UJ
Acenaphthene	SW8270_PAH			ug/L	0.011	UJ	0.01	UJ	0.01	UJ
Acenaphthylene	SW8270_PAH			ug/L	0.009	UJ	0.0086	UJ	0.0087	UJ
Anthracene	SW8270_PAH		180	ug/L	0.01	UJ	0.0096	UJ	0.0097	UJ
Benzo(a)anthracene	SW8270_PAH		0.092	ug/L	0.011	UJ	0.011	UJ	0.011	UJ
Benzo(a)pyrene	SW8270_PAH		0.0092	ug/L	0.01	UJ	0.0096	UJ	0.0097	UJ
Benzo(b)fluoranthene	SW8270_PAH		0.092	ug/L	0.017	UJ	0.016	UJ	0.016	UJ
Benzo(g,h,i)perylene	SW8270_PAH			ug/L	0.014	UJ	0.013	UJ	0.013	UJ
Benzo(k)fluoranthene	SW8270_PAH		0.92	ug/L	0.014	UJ	0.013	UJ	0.013	UJ
Chrysene	SW8270_PAH		9.2	ug/L	0.0096	UJ	0.0091	UJ	0.0092	UJ
Dibenz(a,h)anthracene	SW8270_PAH		0.0092	ug/L	0.013	UJ	0.012	UJ	0.012	UJ
Fluoranthene	SW8270_PAH		150	ug/L	0.012	UJ	0.012	UJ	0.012	UJ
Fluorene	SW8270_PAH		24	ug/L	0.013	UJ	0.013	UJ	0.013	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH		0.092	ug/L	0.019	UJ	0.018	UJ	0.018	UJ
Naphthalene	SW8270_PAH	0.044	0.62	ug/L	0.041	J	0.038	J	0.019	UJ
Phenanthrene	SW8270_PAH			ug/L	0.015	UJ	0.014	UJ	0.014	UJ
Pyrene	SW8270_PAH		18	ug/L	0.011	UJ	0.011	UJ	0.011	UJ
Polychlorinated Biphenyls (PCBs)										
PCB-1016 (Aroclor 1016)	SW8082		0.96	ug/L	0.13	U	0.13	U	0.14	U
PCB-1221 (Aroclor 1221)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U
PCB-1232 (Aroclor 1232)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U
PCB-1242 (Aroclor 1242)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U
PCB-1248 (Aroclor 1248)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U
PCB-1254 (Aroclor 1254)	SW8082		0.034	ug/L	0.13	U	0.13	U	0.14	U
PCB-1260 (Aroclor 1260)	SW8082		3.40E-02	ug/L	0.13	U	0.13	U	0.14	U
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	SW8270		0.72	ug/L	1	U	1	UJ	1	UJ
1,2-Dichlorobenzene	SW8270		37	ug/L	1	U	1	UJ	1	UJ
1,2-Diphenylhydrazine	SW8270		0.084	ug/L	1	U	1	U	1	UJ
1,3-Dichlorobenzene	SW8270		18	ug/L	1	U	1	UJ	1	UJ
1,4-Dichlorobenzene	SW8270		0.5	ug/L	1	U	1	UJ	1	UJ
2,4,5-Trichlorophenol	SW8270		360	ug/L	1	UJ	1	UJ	1	UJ
2,4,6-Trichlorophenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ
2,4-Dichlorophenol	SW8270		11	ug/L	1	UJ	1	UJ	1	UJ
2,4-Dimethylphenol	SW8270		73	ug/L	1	UJ	1	UJ	1	UJ
2,4-Dinitrophenol	SW8270		7.3	ug/L	10	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	SW8270		7.3	ug/L	1	U	1	U	1	UJ
2,6-Dinitrotoluene	SW8270		3.6	ug/L	1	U	1	U	1	UJ
2-Chloronaphthalene	SW8270		49	ug/L	1	U	1	U	1	UJ

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ
2-Chlorophenol	SW8270		3	ug/L	1	UJ	1	UJ	1	UJ
2-Methylnaphthalene	SW8270			ug/L	1	U	1	UJ	1	UJ
2-Methylphenol (o-Cresol)	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ
2-Nitroaniline	SW8270		11	ug/L	1	U	1	U	1	UJ
2-Nitrophenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ
3,3'-Dichlorobenzidine	SW8270		0.15	ug/L	1	U	1	U	1	UJ
3-Methylphenol	SW8270		180	ug/L	1	UJ	1	UJ	1	UJ
3-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	UJ
4,6-Dinitro-2-methylphenol	SW8270		0.36	ug/L	1	UJ	1	UJ	1	UJ
4-Bromophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	UJ
4-Chloro-3-methylphenol	SW8270			ug/L	1	UJ	1	UJ	1	UJ
4-Chloroaniline	SW8270		15	ug/L	1	U	1	U	1	UJ
4-Chlorophenyl phenyl ether	SW8270			ug/L	1	U	1	U	1	UJ
4-Methylphenol (p-Cresol)	SW8270		18	ug/L	1	UJ	1	UJ	1	UJ
4-Nitroaniline	SW8270		3.2	ug/L	1	U	1	U	1	UJ
4-Nitrophenol	SW8270			ug/L	5.3	UJ	5.2	UJ	5.2	UJ
Acenaphthene	SW8270			ug/L	1	U	1	U	1	UJ
Acenaphthylene	SW8270			ug/L	1	U	1	U	1	UJ
Anthracene	SW8270		180	ug/L	1	U	1	U	1	UJ
Benzo(a)anthracene	SW8270		0.092	ug/L	1	U	1	U	1	UJ
Benzo(a)pyrene	SW8270		0.0092	ug/L	1	U	1	U	1	UJ
Benzo(b)fluoranthene	SW8270		0.092	ug/L	1	U	1	U	1	UJ
Benzo(g,h,i)perylene	SW8270			ug/L	1	U	1	U	1	UJ
Benzo(k)fluoranthene	SW8270		0.92	ug/L	1	U	1	U	1	UJ
Benzoic acid	SW8270		15000	ug/L	1	UJ		UR		UR
Benzyl alcohol	SW8270		1100	ug/L	1	U	1	UJ	1	UJ
Benzyl butyl phthalate	SW8270		730	ug/L	1	U	1	U	1	UJ
Carbazole	SW8270		3.4	ug/L	1	U	1	U	1	UJ
Chrysene	SW8270		9.2	ug/L	1	U	1	U	1	UJ
Di-n-butylphthalate	SW8270		360	ug/L	1	U	1	U	1	UJ
Di-n-octylphthalate	SW8270		150	ug/L	1	U	1	U	1	UJ
Dibenz(a,h)anthracene	SW8270		0.0092	ug/L	1	U	1	U	1	UJ
Dibenzofuran	SW8270		1.2	ug/L	1	U	1	U	1	UJ
Diethylphthalate	SW8270		2900	ug/L	1	U	1	U	1	UJ
Dimethylphthalate	SW8270		36000	ug/L	1	U	1	U	1	UJ
Fluoranthene	SW8270		150	ug/L	1	U	1	U	1	UJ
Fluorene	SW8270		24	ug/L	1	U	1	U	1	UJ
Hexachlorobenzene	SW8270		0.042	ug/L	1	U	1	U	1	UJ
Hexachlorobutadiene	SW8270		0.86	ug/L	1	U	1	UJ	1	UJ
Hexachlorocyclopentadiene	SW8270		22	ug/L	1	U	1	UJ	1	UJ
Hexachloroethane	SW8270		4.8	ug/L	1	U	1	UJ	1	UJ

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006		AA3-SWSD-12 05/19/2006		AA3-SWSD-13 05/19/2006	
					Result	VQ	Result	VQ	Result	VQ
Indeno(1,2,3-cd)pyrene	SW8270		0.092	ug/L	1	U	1	U	1	UJ
Isophorone	SW8270		71	ug/L	1	U	1	U	1	UJ
N-Nitroso-di-n-propylamine	SW8270		0.0096	ug/L	0.84	U	0.83	U	0.83	UJ
N-Nitrosodimethylamine	SW8270		0.0013	ug/L	1	U	1	UJ	1	UJ
N-Nitrosodiphenylamine	SW8270		14	ug/L	1	U	1	U	1	UJ
Naphthalene	SW8270		0.62	ug/L	1	U	1	UJ	1	UJ
Nitrobenzene	SW8270		0.34	ug/L	1	U	1	UJ	1	UJ
Pentachlorophenol	SW8270		0.56	ug/L	1	UJ	1	UJ	1	UJ
Phenanthrene	SW8270			ug/L	1	U	1	U	1	UJ
Phenol	SW8270		1100	ug/L	1	UJ	1	UJ	1	UJ
Pyrene	SW8270		18	ug/L	1	U	1	U	1	UJ
bis(2-Chloroethoxy)methane	SW8270			ug/L	1	U	1	U	1	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270		0.01	ug/L	1	U	1	UJ	1	UJ
bis(2-Chloroisopropyl)ether	SW8270		0.27	ug/L	1	U	1	U	1	UJ
bis(2-Ethylhexyl)phthalate	SW8270	5	4.8	ug/L	3	JB	3	JB	3	JB
Volatile Organic Compounds										
1,1,1-Trichloroethane	SW8260	3.8	320	ug/L	0.15	U	0.15	U	0.19	J
1,1,2,2-Tetrachloroethane	SW8260		0.055	ug/L	0.22	U	0.22	U	0.22	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260		5900	ug/L	0.22	U	0.22	U	0.22	U
1,1,2-Trichloroethane	SW8260		0.2	ug/L	0.17	U	0.17	U	0.17	U
1,1-Dichloroethane	SW8260	0.89	81	ug/L	0.15	U	0.15	U	0.15	U
1,1-Dichloroethene	SW8260		34	ug/L	0.42	U	0.42	U	0.42	U
1,2,3-Trichlorobenzene	SW8260			ug/L	0.16	U	0.16	U	0.16	U
1,2,4-Trichlorobenzene	SW8260		0.72	ug/L	0.14	U	0.14	U	0.14	U
1,2-Dibromo-3-chloropropane	SW8260		0.048	ug/L	0.28	U	0.28	U	0.28	U
1,2-Dibromoethane (EDB)	SW8260		0.0056	ug/L	0.14	U	0.14	U	0.14	U
1,2-Dichlorobenzene	SW8260		37	ug/L	0.17	U	0.17	U	0.17	U
1,2-Dichloroethane	SW8260		0.12	ug/L	0.15	U	0.15	U	0.15	U
1,2-Dichloropropane	SW8260		0.16	ug/L	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	SW8260		18	ug/L	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	SW8260		0.5	ug/L	0.12	U	0.12	U	0.12	U
2-Butanone (Methyl ethyl ketone)	SW8260		700	ug/L	1.2	U	1.2	U	1.2	U
2-Hexanone	SW8260			ug/L	0.83	U	0.83	U	0.83	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260		200	ug/L	1.4	U	1.4	U	1.4	U
Acetone	SW8260		550	ug/L	1.1	U	1.1	U	1.1	U
Benzene	SW8260		0.35	ug/L	0.11	U	0.11	U	0.11	U
Bromochloromethane	SW8260			ug/L	0.31	U	0.31	U	0.31	U
Bromodichloromethane	SW8260		0.18	ug/L	0.24	U	0.24	U	0.24	U
Bromoform	SW8260		8.5	ug/L	0.24	U	0.24	U	0.24	U
Bromomethane	SW8260		0.87	ug/L	0.33	U	0.33	U	0.33	U
Carbon Disulfide	SW8260		100	ug/L	0.13	U	0.13	U	0.13	U

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Action Level	Location Date Units	AA3-SWSD-11 05/19/2006 Result	VQ	AA3-SWSD-12 05/19/2006 Result	VQ	AA3-SWSD-13 05/19/2006 Result	VQ
Carbon tetrachloride	SW8260		0.17	ug/L	0.14	U	0.14	U	0.14	U
Chlorobenzene	SW8260		11	ug/L	0.28	U	0.28	U	0.28	U
Chloroethane	SW8260		4.6	ug/L	0.38	U	0.38	U	0.38	U
Chloroform	SW8260		0.17	ug/L	0.15	U	0.15	U	0.15	U
Chloromethane	SW8260		16	ug/L	0.18	U	0.18	U	0.18	U
Cyclohexane	SW8260		1000	ug/L	0.18	U	0.18	U	0.18	U
Dibromochloromethane	SW8260		0.13	ug/L	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	SW8260		39	ug/L	0.24	U	0.24	U	0.24	U
Ethylbenzene	SW8260		130	ug/L	0.14	U	0.14	U	0.14	U
Isopropylbenzene (Cumene)	SW8260		66	ug/L	0.25	U	0.25	U	0.25	U
Methyl Acetate	SW8260		610	ug/L	0.87	U	0.87	U	0.87	U
Methylcyclohexane	SW8260		520	ug/L	0.2	U	0.2	U	0.2	U
Methylene Chloride	SW8260		4.3	ug/L	0.26	U	0.26	U	0.26	U
Styrene	SW8260		160	ug/L	0.22	U	0.22	U	0.22	U
Tert-Butyl Methyl Ether (MTBE)	SW8260		11	ug/L	0.17	U	0.17	U	0.17	U
Tetrachloroethene (PCE)	SW8260		0.1	ug/L	0.14	U	0.14	U	0.14	U
Toluene	SW8260		72	ug/L	0.18	U	0.18	U	0.18	U
Trichloroethene (TCE)	SW8260	0.3	0.028	ug/L	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	SW8260		130	ug/L	0.15	U	0.15	U	0.15	U
Vinyl chloride	SW8260		0.02	ug/L	0.19	U	0.19	U	0.19	U
Xylenes, Total	SW8260		21	ug/L	0.21	U	0.21	U	0.21	U
cis-1,2-Dichloroethene	SW8260		6.1	ug/L	0.44	U	0.44	U	0.44	U
cis-1,3-Dichloropropene	SW8260			ug/L	0.13	U	0.13	U	0.13	U
trans-1,2-Dichloroethene	SW8260		12	ug/L	0.4	U	0.4	U	0.4	U
trans-1,3-Dichloropropene	SW8260			ug/L	0.22	U	0.22	U	0.22	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-04 06/10/2006		AA2-SWSD-05 06/10/2006		AA2-SWSD-06 06/10/2006		AA2-SWSD-07 06/12/2006		AA2-SWSD-07 (field dup) 06/12/2006		AA2-SWSD-08 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																	
Cyanide	SW9012	0.74		120	mg/Kg	0.44	J	0.6	J	0.33	J	0.29	J	0.19	U	0.34	J
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
1,3-Dinitrobenzene	SW8330			610	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	130	U	100	U	96	U	110	U	110	U	110	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	130	U	100	U	96	U	110	U	110	U	110	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	150	U	120	U	110	U	130	U	130	U	130	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	100	U	80	U	130	J	87	U	87	U	87	U
3-Nitrotoluene	SW8330			73000	ug/Kg	150	U	120	U	110	U	130	U	130	U	130	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
HMX	SW8330	530		310000	ug/Kg	380	JB	80	U	74	U	87	U	100	J	87	U
Nitrobenzene	SW8330			2000	ug/Kg	110	U	88	U	81	U	96	U	96	U	96	U
RDX	SW8330	100		4400	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
Tetryl	SW8330			61000	ug/Kg	100	U	80	U	74	U	87	U	87	U	87	U
Metals																	
Aluminum	SW6010	16000	15500	7600	mg/Kg	**16000**	**J**	10900	J	12100	J	9680	J	9050	J	10300	J
Antimony	SW6010		9.3	3.1	mg/Kg	3.9	UJ	3.1	UJ	3.6	UJ	3.1	UJ	3.1	UJ	3.4	U
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	4.7		7.4		6.6		5.3		5.1		4.1	
Barium	SW6010	111	826	540	mg/Kg	100		65.2		78.7		57.9	J	54.9	J	68.3	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.95	J	0.67	J	0.76	J	0.65	J	0.59	J	0.66	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.69	J	0.41	J	0.43	J	0.31	U	0.31	U	0.38	J
Calcium	SW6010	77700	52300		mg/Kg	7530		6810		8220		5360		5710		7500	
Chromium	SW6010	30.4	29		mg/Kg	22.8	J	16.3	J	18.6	J	16.2	J	15.7	J	16.9	J
Cobalt	SW6010	13.1	116	90	mg/Kg	7.6	J	7.4	J	8	J	6.8	J	6.3	J	7	J
Copper	SW6010	53.5	56.2	310	mg/Kg	15.9		22.2		21.9		22.4		23.9		25.6	
Iron	SW6010	34200	234000	2300	mg/Kg	21600	J	20600	J	22200	J	17400	J	18200	J	16800	J
Lead	SW6010	1460	48.6	40	mg/Kg	41.2	J	24.6	J	46.8	J	**65.9**	**J**	**64**	**J**	**85.3**	**J**
Magnesium	SW6010	19800	10400		mg/Kg	4140	J	3150	J	3400	J	2650	J	2490	J	2910	J
Manganese	SW6010	586	3506.2	180	mg/Kg	129	J	153	J	159	J	105	J	108	J	126	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.1	B	0.09	B	0.1	B	0.051	B	0.05	B	0.1	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	25.1		21.3		23.3		21.2		20.1		21.6	
Potassium	SW6010	1830	3390		mg/Kg	1790	J	1470	J	1330	J	1060	J	1050	J	1140	J
Selenium	SW6010	2.5	2	39	mg/Kg	1.6	J	1.3	J	1.6	J	0.92	U	0.92	U	1.1	J
Silver	SW6010	0.32	11.1	39	mg/Kg	0.39	U	0.31	U	0.36	U	0.31	U	0.31	U	0.34	U
Sodium	SW6010				mg/Kg	389	U	309	U	361	U	307	U	306	U	343	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.49	U	0.39	U	0.45	U	0.38	U	0.38	U	0.43	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	32.2		24		27		24.8		21.9		23	
Zinc	SW6010	244	321.8	2300	mg/Kg	90	J	82	J	86.8	J	59.8	J	55.5	J	90.2	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-04 06/10/2006		AA2-SWSD-05 06/10/2006		AA2-SWSD-06 06/10/2006		AA2-SWSD-07 06/12/2006		AA2-SWSD-07 (field dup) 06/12/2006		AA2-SWSD-08 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	37	UJ	30	UJ	36	UJ	32	UJ	30	UJ	33	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	37	UJ	30	UJ	36	UJ	32	UJ	30	U	33	U
Acenaphthylene	SW8270_PAH	150			ug/Kg	58	J	30	UJ	52	J	32	UJ	30	U	33	U
Anthracene	SW8270_PAH	440		2200000	ug/Kg	37	UJ	30	UJ	42	J	32	UJ	30	U	33	U
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	210	J	58	J	220	J	74	J	61	J	93	
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**300**	**J**	30	UJ	**240**	**J**	32	UJ		UR	33	U
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	350	J	30	UJ	290	J	94	J		UR	150	
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	98	J	30	UJ	36	UJ	32	UJ		UR	33	U
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	290	J	30	UJ	240	J	57	J		UR	95	
Chrysene	SW8270_PAH	2500		62000	ug/Kg	280	J	60	J	220	J	81	J	66	J	110	
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg		UR	30	UJ	36	UJ	32	UJ		UR	33	U
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	480	J	77	J	280	J	120	J	73	J	120	
Fluorene	SW8270_PAH	120		270000	ug/Kg	37	UJ	30	UJ	36	UJ	32	UJ	30	U	33	U
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	120	J	30	UJ	36	UJ	32	UJ		UR	33	U
Naphthalene	SW8270_PAH			5600	ug/Kg	37	UJ	30	UJ	36	UJ	32	UJ	30	UJ	33	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	210	J	30	UJ	58	J	32	UJ	30	U	33	U
Pyrene	SW8270_PAH	4400		230000	ug/Kg	440	J	73	J	290	J	120	J	110		110	
Polychlorinated Biphenyls (PCBs)																	
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	7.8	U	6.4	U	7.2	U	6.2	U	6.1	U	6.8	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	110		90		140		**760**		160	J	**250**	
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	190	U	150	U	180	U	160	U	150	U	160	U
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2,4-Dichlorophenol	SW8270			18000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2,4-Dimethylphenol	SW8270			120000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2,4-Dinitrophenol	SW8270			12000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
2-Chloronaphthalene	SW8270			490000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-04 06/10/2006 Result	VQ	AA2-SWSD-05 06/10/2006 Result	VQ	AA2-SWSD-06 06/10/2006 Result	VQ	AA2-SWSD-07 06/12/2006 Result	VQ	AA2-SWSD-07 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-08 06/10/2006 Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	74	UJ	60	UJ	71	UJ	63	UJ	60	UJ	66	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
2-Nitrophenol	SW8270				ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	280	UJ	220	UJ	270	U	240	UJ	220	U	240	U
3-Methylphenol	SW8270	150		310000	ug/Kg	190	U	150	U	180	U	160	U	150	U	160	U
3-Nitroaniline	SW8270			18000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	190	U	150	U	180	U	160	U	150	U	160	U
4-Chloroaniline	SW8270			24000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	190	U	150	U	180	U	160	U	150	U	160	U
4-Nitroaniline	SW8270			23000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
4-Nitrophenol	SW8270				ug/Kg	190	U	150	U	180	U	160	U	150	U	160	U
Acenaphthene	SW8270				ug/Kg	74	U	60	UJ	71	U	63	UJ	60	U	66	U
Acenaphthylene	SW8270	140			ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Anthracene	SW8270	430		2200000	ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	210	J	60	UJ	220	J	81	J	60	U	66	U
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**270**	**J**	60	UJ	**260**	**J**	63	UJ	60	U	66	U
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	300	J	60	UJ	210	J	63	UJ	60	U	66	U
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	290	J	60	UJ	220	J	63	UJ	60	U	66	U
Benzoic acid	SW8270	1500		24000000	ug/Kg	190	J	180	J		UR	220	J	250	J	360	J
Benzyl alcohol	SW8270			1800000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Carbazole	SW8270			24000	ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Chrysene	SW8270	2600		62000	ug/Kg	280	J	60	UJ	240	J	81	J	61	J	66	U
Di-n-butylphthalate	SW8270			610000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Di-n-octylphthalate	SW8270			240000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Dibenzofuran	SW8270			15000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Diethylphthalate	SW8270			4900000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Dimethylphthalate	SW8270			61000000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Fluoranthene	SW8270	3900		230000	ug/Kg	440	J	73	J	270	J	120	J	76	J	120	J
Fluorene	SW8270	120		270000	ug/Kg	74	UJ	60	UJ	71	U	63	UJ	60	U	66	U
Hexachlorobenzene	SW8270			300	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Hexachlorobutadiene	SW8270			6200	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Hexachloroethane	SW8270			35000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	170	J	60	UJ	120	J	63	UJ	60	U	66	U

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-04 06/10/2006 Result	VQ	AA2-SWSD-05 06/10/2006 Result	VQ	AA2-SWSD-06 06/10/2006 Result	VQ	AA2-SWSD-07 06/12/2006 Result	VQ	AA2-SWSD-07 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-08 06/10/2006 Result	VQ
Isophorone	SW8270			510000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Naphthalene	SW8270			5600	ug/Kg	74	UJ	60	UJ	71	UJ	63	UJ	60	UJ	66	UJ
Nitrobenzene	SW8270			2000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Phenanthrene	SW8270	1800			ug/Kg	200	J	60	UJ	71	U	63	UJ	60	U	66	U
Phenol	SW8270			1800000	ug/Kg	190	U	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
Pyrene	SW8270	4200		230000	ug/Kg	450	J	83	J	300	J	110	J	60	U	120	J
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	190	UJ	150	UJ	180	UJ	160	UJ	150	UJ	160	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	190	UJ	150	UJ	180	U	160	UJ	150	U	160	U
Volatile Organic Compounds																	
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	1.4	U	1.3	U	1.5	U	1.4	U	1.4	U	1.4	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.68	U	0.61	U	0.74	U	0.68	U	0.7	U	0.68	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	0.87	U	0.78	U	0.94	U	0.87	U	0.89	U	0.86	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.55	U	0.5	U	0.6	U	0.55	U	0.57	U	0.55	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	0.85	U	0.76	U	0.92	U	0.85	U	0.87	U	0.85	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	1.9	U	1.7	U	2	U	1.9	U	1.9	U	1.9	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.66	U	0.59	U	0.72	U	0.66	U	0.68	U	0.66	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.28	U	0.25	U	0.31	U	0.28	U	0.29	U	0.28	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	1.9	U	1.7	U	2	U	1.9	U	1.9	U	1.9	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.68	U	0.61	U	0.74	U	0.68	U	0.7	U	0.68	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.58	U	0.52	U	0.63	U	0.58	U	0.6	U	0.58	U
1,2-Dichloroethane	SW8260			280	ug/Kg	0.72	U	0.65	U	0.79	U	0.73	U	0.74	U	0.72	U
1,2-Dichloropropane	SW8260			340	ug/Kg	0.72	U	0.65	U	0.79	U	0.73	U	0.74	U	0.72	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	1.3	U	1.2	U	1.4	U	1.3	U	1.4	U	1.3	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	0.87	U	0.78	U	0.94	U	0.87	U	0.89	U	0.86	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	2.2	U	13	J	12	J	9.7	J	10	J	12	J
2-Hexanone	SW8260				ug/Kg	3.6	U	3.2	U	3.9	U	3.6	U	3.7	U	3.6	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	0.91	U	0.82	U	0.99	U	0.92	U	0.94	U	0.91	U
Acetone	SW8260	180		1400000	ug/Kg	32	JB	110	JB	110	JB	75	J	82		91	JB
Benzene	SW8260	4.7		640	ug/Kg	2.8	J	0.66	U	0.8	U	0.74	U	0.76	U	0.74	U
Bromochloromethane	SW8260				ug/Kg	0.66	U	0.59	U	0.72	U	0.66	U	0.68	U	0.66	U
Bromodichloromethane	SW8260			820	ug/Kg	0.47	U	0.42	U	0.51	U	0.47	U	0.48	U	0.47	U
Bromoform	SW8260			62000	ug/Kg	1.6	U	1.4	U	1.7	U	1.6	U	1.6	U	1.6	U
Bromomethane	SW8260			390	ug/Kg	1.1	U	1	U	1.2	U	1.1	U	1.2	U	1.1	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	2	U	1.8	U	2.2	U	2.1	J	2.8	J	2.8	J
Carbon tetrachloride	SW8260			250	ug/Kg	1.4	U	1.2	U	1.5	U	1.4	U	1.4	U	1.4	U

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-04 06/10/2006 Result	VQ	AA2-SWSD-05 06/10/2006 Result	VQ	AA2-SWSD-06 06/10/2006 Result	VQ	AA2-SWSD-07 06/12/2006 Result	VQ	AA2-SWSD-07 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-08 06/10/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	3.9	U	3.5	U	4.3	U	3.9	U	4	U	3.9	U
Chloroethane	SW8260			3000	ug/Kg	1.7	U	1.6	U	1.9	U	1.7	U	1.8	U	1.7	U
Chloroform	SW8260			220	ug/Kg	0.87	U	0.78	U	0.94	U	0.87	U	0.89	U	0.86	U
Chloromethane	SW8260			4700	ug/Kg	0.82	U	0.74	U	0.89	U	0.82	U	0.84	U	0.82	U
Cyclohexane	SW8260	13		280000	ug/Kg	8.8		0.76	U	0.92	U	0.85	U	0.87	U	0.85	U
Dibromochloromethane	SW8260			1100	ug/Kg	0.54	U	0.48	U	0.58	U	0.54	U	0.55	U	0.53	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	1.7	U	1.6	U	1.9	U	1.7	U	1.8	U	1.7	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	1.4	J	1.1	U	1.3	U	1.2	U	1.2	U	1.2	U
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	1.4	U	1.2	U	1.5	U	1.4	U	1.4	U	1.4	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2.5	U	2.3	U	2.7	U	2.5	U	2.6	U	2.5	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	9.8		0.42	U	0.51	U	0.47	U	0.48	U	0.47	U
Methylene Chloride	SW8260			9100	ug/Kg	0.98	U	0.88	U	1.1	U	0.98	U	1	U	0.98	U
Styrene	SW8260			440000	ug/Kg	0.55	U	0.5	U	0.6	U	0.55	U	0.57	U	0.55	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.5	U	0.45	U	0.55	U	0.5	U	0.52	U	0.5	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	1.5	U	1.4	U	1.6	U	1.5	U	1.6	U	1.5	U
Toluene	SW8260	9.1		66000	ug/Kg	5.4	JB	1.2	U	1.5	U	1.4	U	1.4	U	1.4	U
Trichloroethene (TCE)	SW8260			53	ug/Kg	1.3	U	1.2	U	1.4	U	1.3	U	1.4	U	1.3	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	1.5	U	1.3	U	1.6	U	1.5	U	1.5	U	1.5	U
Vinyl chloride	SW8260			79	ug/Kg	1.7	U	1.6	U	1.9	U	1.7	U	1.8	U	1.7	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	1.1	U	0.99	U	1.2	U	1.1	U	1.1	U	1.1	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	1.9	U	1.7	U	2	U	1.9	U	1.9	U	1.9	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	0.79	U	0.71	U	0.86	U	0.79	U	0.81	U	0.79	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	1.7	U	1.6	U	1.9	U	1.7	U	1.8	U	1.7	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.5	U	0.45	U	0.55	U	0.5	U	0.52	U	0.5	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site.
PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-09 06/10/2006 Result	VQ	AA2-SWSD-10 06/10/2006 Result	VQ	AA2-SWSD-11 06/10/2006 Result	VQ	AA2-SWSD-12 06/10/2006 Result	VQ	AA2-SWSD-13 06/10/2006 Result	VQ	AA2-SWSD-14 06/10/2006 Result	VQ	AA2-SWSD-15 06/10/2006 Result	VQ
Wet Chemistry																			
Cyanide	SW9012	0.74		120	mg/Kg	0.74	J	0.45	J	0.35	J	0.21	UJ	0.19	UJ	0.24	J	0.19	UJ
Explosives																			
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
1,3-Dinitrobenzene	SW8330			610	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	120	U	120	U	120	U	110	U	110	U	120	U	130	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	120	U	120	U	120	U	110	U	110	U	120	U	130	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	140	U	140	U	140	U	130	U	130	U	140	U	150	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
3-Nitrotoluene	SW8330			73000	ug/Kg	140	U	140	U	140	U	130	U	130	U	140	U	150	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
HMX	SW8330	530		310000	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
Nitrobenzene	SW8330			2000	ug/Kg	100	U	100	U	100	U	96	U	96	U	100	U	110	U
RDX	SW8330	100		4400	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
Tetryl	SW8330			61000	ug/Kg	91	U	91	U	95	U	87	U	87	U	91	U	100	U
Metals																			
Aluminum	SW6010	16000	15500	7600	mg/Kg	15400	J	11800	J	9220	J	10700	J	14400	J	7400	J	7310	J
Antimony	SW6010		9.3	3.1	mg/Kg	4	UJ	4.3	UJ	3.7	UJ	3.4	UJ	3	UJ	3.6	UJ	3	UJ
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	10.8		5.1		5.6		9.6	J	13	J	4	J	3.9	J
Barium	SW6010	111	826	540	mg/Kg	111		83	J	74		77.7		84.2		49.6	J	49.2	J
Beryllium	SW6010	1.1	1	15	mg/Kg	1.1	J	0.75	J	0.6	J	0.67	J	0.82	J	0.48	J	0.54	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.98	J	0.65	J	0.78	J	0.78	J	0.33	J	0.36	U	0.3	U
Calcium	SW6010	77700	52300		mg/Kg	11000		9920		8280		31200		24200		7790		5460	
Chromium	SW6010	30.4	29		mg/Kg	30.4	J	19	J	14.8	J	17.9	J	22.6	J	11.7	J	11.1	J
Cobalt	SW6010	13.1	116	90	mg/Kg	13.1	J	8.5	J	8	J	10.3	J	10.7	J	7.3	J	7.8	J
Copper	SW6010	53.5	56.2	310	mg/Kg	53.5		33.1		27.8		27.8		24.3		18.7		18.5	
Iron	SW6010	34200	234000	2300	mg/Kg	31800	J	20300	J	18400	J	27000	J	30600	J	15200	J	14400	J
Lead	SW6010	1460	48.6	40	mg/Kg	**531**	**J**	**115**	**J**	**90.5**	**J**	**126**		41.1		25.2		22.3	
Magnesium	SW6010	19800	10400		mg/Kg	4470	J	3430	J	2890	J	6850		8550		2740		2390	
Manganese	SW6010	586	3506.2	180	mg/Kg	232	J	137	J	107	J	406	J	325	J	162	J	124	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.2	B	0.15	B	0.2	B	0.13	B	0.097	B	0.07	B	0.063	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	44.2		26.8		22		26.4		31.7		18.8		20	
Potassium	SW6010	1830	3390		mg/Kg	1470	J	1450	J	1210	J	1300	J	1710	J	972	J	880	J
Selenium	SW6010	2.5	2	39	mg/Kg	2.5		2	J	1.7	J	1	U	0.9	U	1.1	U	0.9	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.4	U	0.43	U	0.37	U	0.34	U	0.3	U	0.36	U	0.3	U
Sodium	SW6010				mg/Kg	398	U	427	U	365	U	340	U	299	U	355	U	300	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.5	U	0.53	U	0.46	U	0.43	U	0.37	U	0.44	U	0.38	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	32.2		26.2		22.9		24.4		31.4		17.2	J	15.1	
Zinc	SW6010	244	321.8	2300	mg/Kg	244	J	109	J	121	J	146		118		70.5		69.1	

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-09 06/10/2006		AA2-SWSD-10 06/10/2006		AA2-SWSD-11 06/10/2006		AA2-SWSD-12 06/10/2006		AA2-SWSD-13 06/10/2006		AA2-SWSD-14 06/10/2006		AA2-SWSD-15 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																			
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	40	UJ	41	UJ	36	UJ	33	UJ	30	UJ	33	UJ	29	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	40	UJ	41	UJ	36	UJ	33	U	30	UJ	33	UJ	29	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	40	UJ	41	UJ	36	UJ	33	U	30	UJ	33	UJ	29	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg	40	UJ	41	UJ	36	UJ	33	U	30	UJ	33	UJ	29	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	150	J	41	UJ	100	J	85		30	UJ	33	UJ	29	UJ
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	40	UJ	41	UJ	**96**	**J**	33	U	30	UJ	33	UJ	29	UJ
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	200	J	41	UJ	36	UJ	120		30	UJ	33	UJ	29	UJ
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	40	UJ	41	UJ	36	UJ	38	J	30	UJ	33	UJ	29	UJ
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	150	J	41	UJ	36	UJ	88		30	UJ	33	UJ	29	UJ
Chrysene	SW8270_PAH	2500		62000	ug/Kg	140	J	41	UJ	100	J	96		30	UJ	33	UJ	29	UJ
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	40	UJ	41	UJ	36	UJ	33	U	30	UJ	33	UJ	29	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	210	J	130	J	140	J	140		43	J	33	UJ	29	UJ
Fluorene	SW8270_PAH	120		270000	ug/Kg	40	UJ	41	UJ	36	UJ	33	U	30	UJ	33	UJ	29	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	40	UJ	41	UJ	36	UJ	44	J	30	UJ	33	UJ	29	UJ
Naphthalene	SW8270_PAH			5600	ug/Kg	40	UJ	41	UJ	36	UJ	33	UJ	30	UJ	33	UJ	29	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	100	J	41	UJ	72	J	45	J	30	UJ	33	UJ	29	UJ
Pyrene	SW8270_PAH	4400		230000	ug/Kg	190	J	120		130	J	110		41	J	33	UJ	29	UJ
Polychlorinated Biphenyls (PCBs)																			
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	8.5	U	8.6	U	7.4	U	6.8	U	5.9	U	6.8	U	6.4	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	**2300**		**960**		**520**		**800**		100		39		82	
Semivolatile Organic Compounds																			
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	U	150	U
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	U	150	U
2,4-Dichlorophenol	SW8270			18000	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	U	150	U
2,4-Dimethylphenol	SW8270			120000	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	U	150	U
2,4-Dinitrophenol	SW8270			12000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
2-Chloronaphthalene	SW8270			490000	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-09 06/10/2006		AA2-SWSD-10 06/10/2006		AA2-SWSD-11 06/10/2006		AA2-SWSD-12 06/10/2006		AA2-SWSD-13 06/10/2006		AA2-SWSD-14 06/10/2006		AA2-SWSD-15 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	80	UJ	82	UJ	72	UJ	65	UJ	60	UJ	66	UJ	59	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
2-Nitrophenol	SW8270				ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	300	UJ	310	UJ	270	U	240	U	220	UJ	250	UJ	220	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	U	150	U
3-Nitroaniline	SW8270			18000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	U	150	U
4-Chloroaniline	SW8270			24000	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	U	150	U
4-Nitroaniline	SW8270			23000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
4-Nitrophenol	SW8270				ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	U	150	U
Acenaphthene	SW8270				ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Acenaphthylene	SW8270	140			ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Anthracene	SW8270	430		2200000	ug/Kg	100	J	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	140	J	82	UJ	72	U	81	J	60	UJ	66	UJ	59	UJ
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**150**	**J**	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	160	J	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	180	J	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Benzoic acid	SW8270	1500		24000000	ug/Kg	380	J	340	J		UR		UR		UR		UR	440	J
Benzyl alcohol	SW8270			1800000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Carbazole	SW8270			24000	ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Chrysene	SW8270	2600		62000	ug/Kg	160	J	82	UJ	72	U	100	J	60	UJ	66	UJ	59	UJ
Di-n-butylphthalate	SW8270			610000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Di-n-octylphthalate	SW8270			240000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Dibenzofuran	SW8270			15000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Diethylphthalate	SW8270			4900000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Dimethylphthalate	SW8270			61000000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	220	J	82	UJ	140	J	140	J	60	UJ	66	UJ	59	UJ
Fluorene	SW8270	120		270000	ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Hexachlorobenzene	SW8270			300	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Hexachlorobutadiene	SW8270			6200	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Hexachloroethane	SW8270			35000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	80	UJ	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ

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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-09 06/10/2006 Result	VQ	AA2-SWSD-10 06/10/2006 Result	VQ	AA2-SWSD-11 06/10/2006 Result	VQ	AA2-SWSD-12 06/10/2006 Result	VQ	AA2-SWSD-13 06/10/2006 Result	VQ	AA2-SWSD-14 06/10/2006 Result	VQ	AA2-SWSD-15 06/10/2006 Result	VQ
Isophorone	SW8270			510000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Naphthalene	SW8270			5600	ug/Kg	80	UJ	82	UJ	72	UJ	65	U	60	UJ	66	UJ	59	UJ
Nitrobenzene	SW8270			2000	ug/Kg	200	UJ	210	UJ	180	UJ	160	U	150	UJ	160	UJ	150	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Phenanthrene	SW8270	1800			ug/Kg	98	J	82	UJ	72	U	65	U	60	UJ	66	UJ	59	UJ
Phenol	SW8270			1800000	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
Pyrene	SW8270	4200		230000	ug/Kg	200	J	120	J	140	J	110	J	60	UJ	66	UJ	59	UJ
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	200	UJ	210	UJ	180	UJ	160	UJ	150	UJ	160	UJ	150	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	200	UJ	210	UJ	180	U	160	U	150	UJ	160	UJ	150	UJ
Volatile Organic Compounds																			
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	2	U	2	U	1.2	U	1	U	1.2	U	1.4	U	1.5	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.96	U	0.97	U	0.58	U	0.48	U	0.6	U	0.65	U	0.73	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	1.2	U	1.2	U	0.74	U	0.62	U	0.76	U	0.84	U	0.93	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.78	U	0.79	U	0.47	U	0.39	U	0.49	U	0.53	U	0.59	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	1.2	U	1.2	U	0.73	U	0.6	U	0.75	U	0.82	U	0.91	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	2.7	U	2.7	U	1.6	U	1.3	U	1.7	U	1.8	U	2	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.94	U	0.94	U	0.57	U	0.47	U	0.58	U	0.64	U	0.71	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.4	U	0.4	U	0.24	U	0.2	U	0.25	U	0.27	U	0.3	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	2.7	U	2.7	U	1.6	U	1.3	U	1.7	U	1.8	U	2	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.96	U	0.97	U	0.58	U	0.48	U	0.6	U	0.65	U	0.73	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.82	U	0.83	U	0.5	U	0.41	U	0.51	U	0.56	U	0.63	U
1,2-Dichloroethane	SW8260			280	ug/Kg	1	U	1	U	0.62	U	0.52	U	0.64	U	0.7	U	0.78	U
1,2-Dichloropropane	SW8260			340	ug/Kg	1	U	1	U	0.62	U	0.52	U	0.64	U	0.7	U	0.78	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	1.9	U	1.9	U	1.1	U	0.94	U	1.2	U	1.3	U	1.4	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	1.2	U	1.2	U	0.74	U	0.62	U	0.76	U	0.84	U	0.93	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	17	J	20	J	1.9	U	1.6	U	1.9	U	14	J	17	J
2-Hexanone	SW8260				ug/Kg	5.1	U	5.2	U	3.1	U	2.6	U	3.2	U	3.5	U	3.9	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	1.3	U	1.3	U	0.78	U	0.65	U	0.81	U	0.88	U	0.98	U
Acetone	SW8260	180		1400000	ug/Kg	140	JB	130	JB	14	JB	7.7	JB	31	JB	130	JB	94	JB
Benzene	SW8260	4.7		640	ug/Kg	1	U	1	U	2.6	J	1.6	J	1.7	J	0.72	U	0.8	U
Bromochloromethane	SW8260				ug/Kg	0.94	U	0.94	U	0.57	U	0.47	U	0.58	U	0.64	U	0.71	U
Bromodichloromethane	SW8260			820	ug/Kg	0.67	U	0.67	U	0.41	U	0.34	U	0.42	U	0.46	U	0.51	U
Bromoform	SW8260			62000	ug/Kg	2.2	U	2.2	U	1.4	U	1.1	U	1.4	U	1.5	U	1.7	U
Bromomethane	SW8260			390	ug/Kg	1.6	U	1.6	U	0.97	U	0.81	U	1	U	1.1	U	1.2	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	2.9	U	2.9	U	1.8	U	1.4	U	1.8	U	2	U	2.2	U
Carbon tetrachloride	SW8260			250	ug/Kg	2	U	2	U	1.2	U	0.98	U	1.2	U	1.3	U	1.5	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect*	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-09 06/10/2006 Result	VQ	AA2-SWSD-10 06/10/2006 Result	VQ	AA2-SWSD-11 06/10/2006 Result	VQ	AA2-SWSD-12 06/10/2006 Result	VQ	AA2-SWSD-13 06/10/2006 Result	VQ	AA2-SWSD-14 06/10/2006 Result	VQ	AA2-SWSD-15 06/10/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	5.6	U	5.6	U	3.4	U	2.8	U	3.5	U	3.8	U	4.2	U
Chloroethane	SW8260			3000	ug/Kg	2.4	U	2.5	U	1.5	U	1.2	U	1.5	U	1.7	U	1.9	U
Chloroform	SW8260			220	ug/Kg	1.2	U	1.2	U	0.74	U	0.62	U	0.76	U	0.84	U	0.93	U
Chloromethane	SW8260			4700	ug/Kg	1.2	U	1.2	U	0.7	U	0.58	U	0.72	U	0.79	U	0.88	U
Cyclohexane	SW8260	13		280000	ug/Kg	1.2	U	1.2	U	6.6	J	4.1	J	4.1	J	0.97	J	0.91	U
Dibromochloromethane	SW8260			1100	ug/Kg	0.76	U	0.76	U	0.46	U	0.38	U	0.47	U	0.52	U	0.58	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	2.4	U	2.5	U	1.5	U	1.2	U	1.5	U	1.7	U	1.9	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	1.7	U	1.7	U	1	U	0.84	U	1	U	1.1	U	1.3	U
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	2	U	2	U	1.2	U	0.98	U	1.2	U	1.3	U	1.5	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	3.6	U	290		2.2	U	1.8	U	2.2	U	2.4	U	2.7	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	0.67	U	0.67	U	7.7		5.4	J	5.2	J	0.46	U	0.51	U
Methylene Chloride	SW8260			9100	ug/Kg	1.4	U	1.4	U	0.84	U	0.69	U	0.86	U	0.94	U	1	U
Styrene	SW8260			440000	ug/Kg	0.78	U	0.79	U	0.47	U	0.39	U	0.49	U	0.53	U	0.59	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.71	U	0.72	U	0.43	U	0.36	U	0.44	U	0.49	U	0.54	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	2.2	U	2.2	U	1.3	U	1.1	U	1.3	U	1.5	U	1.6	U
Toluene	SW8260	9.1		66000	ug/Kg	1.9	U	1.9	U	3.1	JB	2.3	JB	2.4	JB	1.3	U	1.4	U
Trichloroethene (TCE)	SW8260			53	ug/Kg	1.9	U	1.9	U	1.2	U	0.95	U	1.2	U	1.3	U	1.4	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	2.1	U	2.1	U	1.3	U	1.1	U	1.3	U	1.4	U	1.6	U
Vinyl chloride	SW8260			79	ug/Kg	2.4	U	2.5	U	1.5	U	1.2	U	1.5	U	1.7	U	1.9	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	1.6	U	1.6	U	0.95	U	0.78	U	0.97	U	1.1	U	1.2	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	2.7	U	2.7	U	1.6	U	1.3	U	1.7	U	1.8	U	2	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	1.1	U	1.1	U	0.68	U	0.56	U	0.69	U	0.76	U	0.85	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	2.4	U	2.5	U	1.5	U	1.2	U	1.5	U	1.7	U	1.9	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.71	U	0.72	U	0.43	U	0.36	U	0.44	U	0.49	U	0.54	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-16 06/11/2006		AA2-SWSD-17 06/11/2006		AA2-SWSD-18 06/12/2006		AA2-SWSD-18 (field dup) 06/12/2006		AA2-SWSD-19 06/11/2006		AA2-SWSD-20 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																	
Cyanide	SW9012	0.74		120	mg/Kg	0.17	U	0.71		0.2	J	0.22	J	0.17	U	0.17	U
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	180	J	91	U	160	J	77	U	95	U	140	
1,3-Dinitrobenzene	SW8330			610	ug/Kg	83	U	91	U	74	U	77	U	95	U	80	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	770		620		94	J	100	J	95	U	80	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	720		460		320		260	J	120	U	100	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	110	U	120	U	96	U	100	U	120	U	100	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	120	U	140	U	110	U	120	U	140	U	120	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	83	U	91	U	74	U	170	J	95	U	80	U
3-Nitrotoluene	SW8330			73000	ug/Kg	120	U	140	U	110	U	120	U	140	U	120	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	83	U	91	U	74	U	77	U	95	U	80	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	83	U	91	U	74	U	77	U	95	U	96	J
HMX	SW8330	530		310000	ug/Kg	83	U	91	U	160	J	77	U	95	U	530	J
Nitrobenzene	SW8330			2000	ug/Kg	92	U	100	U	81	U	85	U	100	U	88	U
RDX	SW8330	100		4400	ug/Kg	100	J	91	U	74	U	88	J	95	U	80	U
Tetryl	SW8330			61000	ug/Kg	83	U	91	U	74	U	77	U	95	U	80	U
Metals																	
Aluminum	SW6010	16000	15500	7600	mg/Kg	2490	J	9190	J	7430	J	9090	J	5320	J	3750	J
Antimony	SW6010		9.3	3.1	mg/Kg	2.8	UJ	3.7	UJ	2.7	UJ	3	UJ	2.7	UJ	2.8	UJ
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	3.7		10.8		10.1		12.7		8.8		5.9	
Barium	SW6010	111	826	540	mg/Kg	70.4		91.8		66.2		69.9		57.3		39.7	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.28	U	0.62	J	0.56	J	0.7	J	0.36	J	0.28	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.28	U	0.37	U	0.44	J	0.53	J	0.27	U	0.28	U
Calcium	SW6010	77700	52300		mg/Kg	2450		8740		3930		4420		2810		1780	
Chromium	SW6010	30.4	29		mg/Kg	3.5	J	16.4	J	12.8	J	16.6	J	9.3	J	7.2	J
Cobalt	SW6010	13.1	116	90	mg/Kg	1.4	U	6.1	J	9.1	J	10.3	J	4.1	J	5	J
Copper	SW6010	53.5	56.2	310	mg/Kg	5.9	J	25.1		20.8		26		13		10.7	
Iron	SW6010	34200	234000	2300	mg/Kg	5810	J	21900	J	23400	J	34200	J	14600	J	11200	J
Lead	SW6010	1460	48.6	40	mg/Kg	39.6	J	**1460**	**J**	47.9	J	**56.1**	**J**	**92.8**	**J**	48.3	J
Magnesium	SW6010	19800	10400		mg/Kg	486	J	2770	J	1990	J	2190	J	1210	J	795	J
Manganese	SW6010	586	3506.2	180	mg/Kg	58.6	T	176	J	187	J	164	J	133	J	236	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.3	B	0.13	B	0.049	B	0.056	B	0.067	B	1.1	
Nickel	SW6010	44.2	55.1	160	mg/Kg	2.8	J	18.9		21.9		29		12.2		10.7	J
Potassium	SW6010	1830	3390		mg/Kg	627	J	1270	J	859	J	963	J	674	J	573	J
Selenium	SW6010	2.5	2	39	mg/Kg	0.84	U	1.1	U	0.8	U	0.89	U	0.82	U	0.83	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.28	U	0.37	U	0.27	U	0.3	U	0.27	U	0.32	J
Sodium	SW6010				mg/Kg	279	U	367	U	267	U	296	U	274	U	276	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.35	U	0.46	U	0.33	U	0.37	U	0.34	U	0.34	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	5.7	J	22.4		18.1		20.7		13.7	J	11.3	J
Zinc	SW6010	244	321.8	2300	mg/Kg	8.6	J	68.4	J	94.4	J	119	J	66.9	J	36	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-16 06/11/2006 Result	VQ	AA2-SWSD-17 06/11/2006 Result	VQ	AA2-SWSD-18 06/12/2006 Result	VQ	AA2-SWSD-18 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-19 06/11/2006 Result	VQ	AA2-SWSD-20 06/11/2006 Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	27	UJ	34	UJ	60	J	42	J	28	UJ	29	J
Acenaphthene	SW8270_PAH	39			ug/Kg	39	J	34	UJ	26	UJ	28	UJ	28	UJ	26	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	150	J	87	J	48	J	39	J	50	J	67	J
Anthracene	SW8270_PAH	440		2200000	ug/Kg	440	J	82	J	75	J	150	J	110	J	160	J
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	**2400**	**J**	530	J	460	J	550	J	490	J	**1100**	**J**
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**2700**	**J**	**730**	**J**	**550**	**J**	**650**	**J**	**550**	**J**	**1100**	**J**
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	**2900**	**J**	**950**	**J**	610	J	**660**	**J**	**640**	**J**	**1300**	**J**
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	900	J	270	J	180	J	190	J	170	J	320	J
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	2600	J	660	J	490	J	520	J	480	J	1100	J
Chrysene	SW8270_PAH	2500		62000	ug/Kg	2500	J	660	J	520	J	570	J	510	J	1100	J
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	**250**	**J**	34	UJ	26	UJ		UR	28	UJ	26	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	4200	J	870	J	790	J	1000	J	800	J	1700	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	120	J	34	UJ	26	UJ	28	UJ	28	UJ	26	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	**1200**	**J**	360	J	220	J	260	J	220	J	460	J
Naphthalene	SW8270_PAH			5600	ug/Kg	27	UJ	34	UJ	26	UJ	28	UJ	28	UJ	26	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	1900	J	230	J	240	J	330	J	280	J	430	J
Pyrene	SW8270_PAH	4400		230000	ug/Kg	4400	J	820	J	760	J	800	J	700	J	1500	J
Polychlorinated Biphenyls (PCBs)																	
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	5.5	U	7.2	U	5.4	U	6	U	5.7	U	5.4	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	170		**1900**		**1900**		**3400**		**15000**		**18000**	
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	130	U	170	U	130	UJ	140	U	140	UJ	130	UJ
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2,4-Dichlorophenol	SW8270			18000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2,4-Dimethylphenol	SW8270			120000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2,4-Dinitrophenol	SW8270			12000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	330	J	260	J	560	J	400	J	140	UJ	240	J
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2-Chloronaphthalene	SW8270			490000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found ... nk, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-16 06/11/2006 Result	VQ	AA2-SWSD-17 06/11/2006 Result	VQ	AA2-SWSD-18 06/12/2006 Result	VQ	AA2-SWSD-18 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-19 06/11/2006 Result	VQ	AA2-SWSD-20 06/11/2006 Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	54	UJ	68	UJ	54	J	56	UJ	55	UJ	53	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
2-Nitrophenol	SW8270				ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	200	UJ	250	UJ	200	UJ	210	UJ	210	UJ	200	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	150	J	170	U	130	UJ	140	U	140	U	130	U
3-Nitroaniline	SW8270			18000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	130	U	170	U	130	UJ	140	U	140	U	130	UJ
4-Chloroaniline	SW8270			24000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	150	J	170	U	130	UJ	140	U	140	U	130	U
4-Nitroaniline	SW8270			23000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
4-Nitrophenol	SW8270				ug/Kg	130	U	170	U	130	UJ	140	U	140	U	130	U
Acenaphthene	SW8270				ug/Kg	54	UJ	68	UJ	52	UJ	56	UJ	55	UJ	53	UJ
Acenaphthylene	SW8270	140			ug/Kg	140	J	86	J	52	UJ	56	UJ	55	UJ	64	J
Anthracene	SW8270	430		2200000	ug/Kg	430	J	68	UJ	70	J	150	J	98	J	140	J
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	**2300**	**J**	550	J	490	J	530	J	490	J	**1100**	**J**
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**2900**	**J**	**770**	**J**	**580**	**J**	**610**	**J**	**560**	**J**	**1200**	**J**
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	**2900**	**J**	**840**	**J**	620	J	**730**	**J**	590	J	**1200**	**J**
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	1100	J	250	J	160	J	150	J	200	J	350	J
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	2200	J	740	J	570	J	520	J	480	J	1000	J
Benzoic acid	SW8270	1500		24000000	ug/Kg		UR		UR		UR		UR		UR		UR
Benzyl alcohol	SW8270			1800000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Carbazole	SW8270			24000	ug/Kg	54	UJ	68	UJ	52	UJ	56	UJ	55	UJ	53	UJ
Chrysene	SW8270	2600		62000	ug/Kg	2600	J	700	J	530	J	590	J	530	J	1100	J
Di-n-butylphthalate	SW8270			610000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Di-n-octylphthalate	SW8270			240000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	**320**	**J**	68	UJ	52	UJ	56	UJ	55	UJ	**100**	**J**
Dibenzofuran	SW8270			15000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Diethylphthalate	SW8270			4900000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Dimethylphthalate	SW8270			61000000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	3900	J	840	J	800	J	1000	J	760	J	1700	J
Fluorene	SW8270	120		270000	ug/Kg	120	J	68	UJ	52	UJ	56	UJ	55	UJ	53	UJ
Hexachlorobenzene	SW8270			300	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Hexachlorobutadiene	SW8270			6200	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Hexachloroethane	SW8270			35000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	**1400**	**J**	370	J	230	J	210	J	280	J	480	J

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-16 06/11/2006		AA2-SWSD-17 06/11/2006		AA2-SWSD-18 06/12/2006		AA2-SWSD-18 (field dup) 06/12/2006		AA2-SWSD-19 06/11/2006		AA2-SWSD-20 06/11/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Isophorone	SW8270			510000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Naphthalene	SW8270			5600	ug/Kg	54	UJ	68	UJ	52	UJ	56	UJ	55	UJ	53	UJ
Nitrobenzene	SW8270			2000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Phenanthrene	SW8270	1800			ug/Kg	1800	J	210	J	230	J	330	J	280	J	400	J
Phenol	SW8270			1800000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Pyrene	SW8270	4200		230000	ug/Kg	4200	J	880	J	780	J	970	J	740	J	1400	J
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	130	UJ	170	UJ	130	UJ	140	UJ	140	UJ	130	UJ
Volatile Organic Compounds																	
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	1.1	U	1.4	U	1.3	U	1.1	U	1.2	U	1.2	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.52	U	0.66	U	0.6	U	0.53	U	0.59	U	0.56	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	0.67	U	0.84	U	0.77	U	0.68	U	0.75	U	0.72	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.42	U	0.54	U	0.49	U	0.43	U	0.48	U	0.46	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	0.66	U	0.83	U	0.76	U	0.67	U	0.74	U	0.71	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	1.4	U	1.8	U	1.7	U	1.5	U	1.6	U	1.6	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.51	U	0.64	U	0.59	U	0.52	U	0.57	U	0.55	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.22	U	0.28	U	0.25	U	0.22	U	0.25	U	0.24	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	1.4	U	1.8	U	1.7	U	1.5	U	1.6	U	1.6	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.52	U	0.66	U	0.6	U	0.53	U	0.59	U	0.56	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.45	U	0.57	U	0.52	U	0.46	U	0.51	U	0.48	U
1,2-Dichloroethane	SW8260			280	ug/Kg	0.56	U	0.7	U	0.64	U	0.57	U	0.63	U	0.6	U
1,2-Dichloropropane	SW8260			340	ug/Kg	0.56	U	0.7	U	0.64	U	0.57	U	0.63	U	0.6	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	1	U	1.3	U	1.2	U	1	U	1.1	U	1.1	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	0.67	U	0.84	U	0.77	U	0.68	U	0.75	U	0.72	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	4.3	J	15	J	6.4	J	5	J	1.9	U	2.9	J
2-Hexanone	SW8260				ug/Kg	2.8	U	3.5	U	3.2	U	2.8	U	3.1	U	3	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	0.7	U	0.89	U	0.81	U	0.72	U	0.79	U	0.76	U
Acetone	SW8260	180		1400000	ug/Kg	32	JB	62	J	54	J	50	J	25	JB	46	JB
Benzene	SW8260	4.7		640	ug/Kg	0.57	U	0.72	U	0.66	U	0.58	U	0.64	U	0.62	U
Bromochloromethane	SW8260				ug/Kg	0.51	U	0.64	U	0.59	U	0.52	U	0.57	U	0.55	U
Bromodichloromethane	SW8260			820	ug/Kg	0.36	U	0.46	U	0.42	U	0.37	U	0.41	U	0.39	U
Bromoform	SW8260			62000	ug/Kg	1.2	U	1.5	U	1.4	U	1.2	U	1.4	U	1.3	U
Bromomethane	SW8260			390	ug/Kg	0.87	U	1.1	U	1	U	0.89	U	0.98	U	0.94	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.6	U	2	U	1.8	U	1.6	U	1.8	U	1.7	U
Carbon tetrachloride	SW8260			250	ug/Kg	1.1	U	1.3	U	1.2	U	1.1	U	1.2	U	1.2	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found ... blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-16 06/11/2006 Result	VQ	AA2-SWSD-17 06/11/2006 Result	VQ	AA2-SWSD-18 06/12/2006 Result	VQ	AA2-SWSD-18 (field dup) 06/12/2006 Result	VQ	AA2-SWSD-19 06/11/2006 Result	VQ	AA2-SWSD-20 06/11/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	3	U	3.8	U	3.5	U	3.1	U	3.4	U	3.3	U
Chloroethane	SW8260			3000	ug/Kg	1.3	U	1.7	U	1.5	U	1.4	U	1.5	U	1.4	U
Chloroform	SW8260			220	ug/Kg	0.67	U	0.84	U	0.77	U	0.68	U	0.75	U	0.72	U
Chloromethane	SW8260			4700	ug/Kg	0.63	U	0.8	U	0.73	U	0.64	U	0.71	U	0.68	U
Cyclohexane	SW8260	13		280000	ug/Kg	0.66	U	0.83	U	1	J	0.67	U	0.74	U	0.86	J
Dibromochloromethane	SW8260			1100	ug/Kg	0.41	U	0.52	U	0.48	U	0.42	U	0.46	U	0.44	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	1.3	U	1.7	U	1.5	U	1.4	U	1.5	U	1.4	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	0.91	U	1.2	U	1	U	0.93	U	1	U	0.98	U
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	1.1	U	1.3	U	1.2	U	1.1	U	1.2	U	1.2	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	1.9	U	2.4	U	2.2	U	2	U	2.2	U	2.1	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	0.36	U	0.46	U	0.42	U	0.37	U	0.41	U	0.39	U
Methylene Chloride	SW8260			9100	ug/Kg	0.75	U	0.95	U	0.87	U	0.76	U	0.85	U	0.81	U
Styrene	SW8260			440000	ug/Kg	0.42	U	0.54	U	0.49	U	0.43	U	0.48	U	0.46	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.39	U	0.49	U	0.45	U	0.4	U	0.44	U	0.42	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	1.2	U	1.5	U	1.4	U	1.2	U	1.3	U	1.3	U
Toluene	SW8260	9.1		66000	ug/Kg	1	U	8.5	B	1.2	U	1.1	U	1.2	U	1.1	U
Trichloroethene (TCE)	SW8260			53	ug/Kg	1	U	1.3	U	1.2	U	1	U	1.2	U	1.1	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	1.2	U	1.4	U	1.3	U	1.2	U	1.3	U	1.2	U
Vinyl chloride	SW8260			79	ug/Kg	1.3	U	1.7	U	1.5	U	1.4	U	1.5	U	1.4	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	0.85	U	1.1	U	0.98	U	0.86	U	0.96	U	0.92	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	1.4	U	1.8	U	1.7	U	1.5	U	1.6	U	1.6	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	0.61	U	0.77	U	0.7	U	0.62	U	0.68	U	0.66	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	1.3	U	1.7	U	1.5	U	1.4	U	1.5	U	1.4	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.39	U	0.49	U	0.45	U	0.4	U	0.44	U	0.42	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-21 06/11/2006		AA2-SWSD-22 06/11/2006		AA2-SWSD-23 06/11/2006		AA3-SWSD-04 06/10/2006		AA3-SWSD-05 06/10/2006		AA3-SWSD-06 06/10/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																	
Cyanide	SW9012	0.74		120	mg/Kg	0.2	U	0.24	J	0.17	U	0.18	UJ	0.19	UJ	0.18	UJ
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
1,3-Dinitrobenzene	SW8330			610	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	120	U	110	U	120	U	120	U	120	U	110	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	120	U	110	U	120	U	120	U	120	U	110	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	140	U	120	U	140	U	140	U	140	U	130	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
3-Nitrotoluene	SW8330			73000	ug/Kg	140	U	120	U	140	U	140	U	140	U	130	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
HMX	SW8330	530		310000	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
Nitrobenzene	SW8330			2000	ug/Kg	100	U	92	U	100	U	100	U	100	U	96	U
RDX	SW8330	100		4400	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
Tetryl	SW8330			61000	ug/Kg	95	U	83	U	91	U	91	U	91	U	87	U
Metals																	
Aluminum	SW6010	16000	15500	7600	mg/Kg	8090	J	11400	J	7990	J	9390	J	9590	J	10200	J
Antimony	SW6010		9.3	3.1	mg/Kg	3.3	UJ	3	UJ	2.6	U	2.9	UJ	3.1	UJ	2.9	UJ
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	5.4		5.8		8.5		9.3	J	15.4	J	13.8	J
Barium	SW6010	111	826	540	mg/Kg	56.4	J	85.6		60.3		78.6		77.4		79	
Beryllium	SW6010	1.1	1	15	mg/Kg	0.6	J	0.7	J	0.53	J	0.6	J	0.59	J	0.66	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.33	U	0.3	U	0.26	U	0.29	U	0.31	U	0.29	U
Calcium	SW6010	77700	52300		mg/Kg	6510		5570		7270		29000		32700		40500	
Chromium	SW6010	30.4	29		mg/Kg	12.4	J	17.7	J	12.5	J	15.3	J	15.1	J	16.3	J
Cobalt	SW6010	13.1	116	90	mg/Kg	4.4	J	6.4	J	7.4	J	8.3	J	8.5	J	9.8	J
Copper	SW6010	53.5	56.2	310	mg/Kg	18.9		15.5		13.6		21.3		21		24.4	
Iron	SW6010	34200	234000	2300	mg/Kg	15300	J	21500	J	19100	J	19500	J	23300	J	22200	J
Lead	SW6010	1460	48.6	40	mg/Kg	30.5	J	19.6	J	27.8	J	13.4		14.3		14.6	
Magnesium	SW6010	19800	10400		mg/Kg	1930	J	2840	J	2570	J	10400		8380		13200	
Manganese	SW6010	586	3506.2	180	mg/Kg	103	J	354	J	123	J	235	J	290	J	311	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.4	B	0.22	B	0.11	B	0.044	B	0.048	B	0.042	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	14		17.2		15		22.7		22.6		25.8	
Potassium	SW6010	1830	3390		mg/Kg	759	J	986	J	604	J	935	J	1010	J	1050	J
Selenium	SW6010	2.5	2	39	mg/Kg	1	J	0.89	U	0.78	U	0.88	U	0.93	U	0.87	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.33	U	0.3	U	0.26	U	0.29	U	0.31	U	0.29	U
Sodium	SW6010				mg/Kg	332	U	296	U	260	U	293	U	309	U	291	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.42	U	0.37	U	0.32	U	0.37	U	0.39	U	0.36	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	18.1		21.4		21.9		24.1		24.4		25.7	
Zinc	SW6010	244	321.8	2300	mg/Kg	56.1	J	72.4	J	40.6	J	55.4		60.8		57.6	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found ..nk, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-21 06/11/2006 Result	VQ	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ	AA3-SWSD-04 06/10/2006 Result	VQ	AA3-SWSD-05 06/10/2006 Result	VQ	AA3-SWSD-06 06/10/2006 Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	31	UJ	29	UJ	26	UJ	28	UJ	28	UJ	28	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	31	UJ	29	UJ	26	U	28	UJ	28	UJ	28	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	50	J	29	UJ	26	U	28	UJ	28	UJ	28	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg	69	J	29	UJ	26	U	28	UJ	28	UJ	28	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	270	J	56	J	140		28	UJ	28	UJ	28	UJ
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	**350**	J	29	UJ	**200**			UR	28	UJ	28	UJ
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	300	J	67	J	300			UR	43	J	29	J
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	130	J	29	UJ	84	J		UR	28	UJ	28	UJ
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	350	J	62	J	150			UR	28	UJ	28	UJ
Chrysene	SW8270_PAH	2500		62000	ug/Kg	300	J	55	J	180		28	UJ	28	UJ	28	UJ
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	31	UJ	29	UJ	26	U		UR	28	UJ	28	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	460	J	82	J	210		28	UJ	56	J	38	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	31	UJ	29	U	26	U	28	UJ	28	UJ	28	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	150	J	29	UJ	26	U		UR	28	UJ	28	UJ
Naphthalene	SW8270_PAH			5600	ug/Kg	31	UJ	29	UJ	26	UJ	28	UJ	28	UJ	28	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	160	J	29	UJ	65	J	28	UJ	28	UJ	28	UJ
Pyrene	SW8270_PAH	4400		230000	ug/Kg	440	J	86	J	270		28	UJ	44	J	28	UJ
Polychlorinated Biphenyls (PCBs)																	
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	6.5	U	6	U	5.6	U	5.8	U	6.2	U	5.8	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	**380**		48		56		5.8	U	6.2	U	5.8	U
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	150	UJ	140	U	130	U	140	U	140	U	140	U
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	150	UJ	140	UJ	130	UJ	140	U	140	U	140	U
2,4-Dichlorophenol	SW8270			18000	ug/Kg	150	UJ	140	UJ	130	UJ	140	U	140	U	140	U
2,4-Dimethylphenol	SW8270			120000	ug/Kg	150	UJ	140	UJ	130	UJ	140	U	140	U	140	U
2,4-Dinitrophenol	SW8270			12000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
2-Chloronaphthalene	SW8270			490000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-21 06/11/2006 Result	VQ	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ	AA3-SWSD-04 06/10/2006 Result	VQ	AA3-SWSD-05 06/10/2006 Result	VQ	AA3-SWSD-06 06/10/2006 Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	62	UJ	58	UJ	53	UJ	57	UJ	57	UJ	56	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
2-Nitrophenol	SW8270				ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	230	UJ	220	UJ	200	U	210	UJ	210	UJ	210	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	150	UJ	140	U	130	U	140	U	140	U	140	UJ
3-Nitroaniline	SW8270			18000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	150	UJ	140	U	130	U	140	U	140	U	140	U
4-Chloroaniline	SW8270			24000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	150	UJ	140	U	130	U	140	U	140	U	140	U
4-Nitroaniline	SW8270			23000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
4-Nitrophenol	SW8270				ug/Kg	150	UJ	140	U	130	U	140	U	140	U	140	U
Acenaphthene	SW8270				ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	U
Acenaphthylene	SW8270	140			ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Anthracene	SW8270	430		2200000	ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	300	J	58	UJ	140	J	57	UJ	57	UJ	56	UJ
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	**370**	**J**	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	310	J	58	UJ	240	J	57	UJ	57	UJ	56	UJ
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	100	J	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	260	J	58	UJ	180	J	57	UJ	57	UJ	56	UJ
Benzoic acid	SW8270	1500		24000000	ug/Kg	1500	J		UR		UR		UR		UR		UR
Benzyl alcohol	SW8270			1800000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Carbazole	SW8270			24000	ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Chrysene	SW8270	2600		62000	ug/Kg	300	J	58	UJ	170	J	57	UJ	57	UJ	56	UJ
Di-n-butylphthalate	SW8270			610000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Di-n-octylphthalate	SW8270			240000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Dibenzofuran	SW8270			15000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Diethylphthalate	SW8270			4900000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Dimethylphthalate	SW8270			61000000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	430	J	77	J	220	J	57	UJ	57	UJ	56	UJ
Fluorene	SW8270	120		270000	ug/Kg	62	UJ	58	UJ	53	U	57	UJ	57	UJ	56	UJ
Hexachlorobenzene	SW8270			300	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Hexachlorobutadiene	SW8270			6200	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Hexachloroethane	SW8270			35000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	140	J	58	UJ	53	U	57	UJ	57	UJ	56	UJ

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Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-21 06/11/2006 Result	VQ	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ	AA3-SWSD-04 06/10/2006 Result	VQ	AA3-SWSD-05 06/10/2006 Result	VQ	AA3-SWSD-06 06/10/2006 Result	VQ
Isophorone	SW8270			510000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Naphthalene	SW8270			5600	ug/Kg	62	UJ	58	UJ	53	UJ	57	UJ	57	UJ	56	UJ
Nitrobenzene	SW8270			2000	ug/Kg	150	UJ	140	U	130	UJ	140	UJ	140	UJ	140	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Phenanthrene	SW8270	1800			ug/Kg	160	J	58	UJ	67	J	57	UJ	57	UJ	56	UJ
Phenol	SW8270			1800000	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
Pyrene	SW8270	4200		230000	ug/Kg	460	J	78	J	260	J	57	UJ	57	UJ	56	UJ
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	150	UJ	140	UJ	130	UJ	140	UJ	140	UJ	140	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	150	UJ	140	UJ	130	U	140	UJ	140	UJ	140	UJ
Volatile Organic Compounds																	
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	1.3	U	1.1	U	1	U	1	U	1.2	U	1	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.63	U	0.53	U	0.49	U	0.49	U	0.56	U	0.5	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	0.81	U	0.68	U	0.62	U	0.62	U	0.71	U	0.63	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.52	U	0.44	U	0.4	U	0.4	U	0.45	U	0.4	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	0.8	U	0.67	U	0.61	U	0.61	U	0.7	U	0.62	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	1.8	U	1.5	U	1.4	U	1.4	U	1.6	U	1.4	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.62	U	0.52	U	0.48	U	0.48	U	0.54	U	0.48	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.26	U	0.22	U	0.2	U	0.2	U	0.23	U	0.21	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	1.8	U	1.5	U	1.4	U	1.4	U	1.6	U	1.4	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.63	U	0.53	U	0.49	U	0.49	U	0.56	U	0.5	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.54	U	0.46	U	0.42	U	0.42	U	0.48	U	0.43	U
1,2-Dichloroethane	SW8260			280	ug/Kg	0.68	U	0.57	U	0.52	U	0.52	U	0.6	U	0.53	U
1,2-Dichloropropane	SW8260			340	ug/Kg	0.68	U	0.57	U	0.52	U	0.52	U	0.6	U	0.53	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	1.2	U	1	U	0.95	U	0.96	U	1.1	U	0.97	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	0.81	U	0.68	U	0.62	U	0.62	U	0.71	U	0.63	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	8.7	J	6.5	J	2.7	J	1.6	U	1.8	U	1.6	U
2-Hexanone	SW8260				ug/Kg	3.4	U	2.9	U	2.6	U	2.6	U	3	U	2.6	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	0.86	U	0.72	U	0.66	U	0.66	U	0.75	U	0.67	U
Acetone	SW8260	180		1400000	ug/Kg	110	JB	56	JB	20	JB	6.4	JB	18	JB	10	JB
Benzene	SW8260	4.7		640	ug/Kg	0.69	U	0.58	U	0.53	U	1.9	J	3	J	1.8	J
Bromochloromethane	SW8260				ug/Kg	0.62	U	0.52	U	0.48	U	0.48	U	0.54	U	0.48	U
Bromodichloromethane	SW8260			820	ug/Kg	0.44	U	0.37	U	0.34	U	0.34	U	0.39	U	0.35	U
Bromoform	SW8260			62000	ug/Kg	1.5	U	1.2	U	1.1	U	1.1	U	1.3	U	1.2	U
Bromomethane	SW8260			390	ug/Kg	1.1	U	0.9	U	0.82	U	0.82	U	0.93	U	0.83	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.9	U	1.6	U	1.5	U	1.5	U	1.7	U	1.5	U
Carbon tetrachloride	SW8260			250	ug/Kg	1.3	U	1.1	U	1	U	1	U	1.1	U	1	U

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Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA2-SWSD-21 06/11/2006 Result	VQ	AA2-SWSD-22 06/11/2006 Result	VQ	AA2-SWSD-23 06/11/2006 Result	VQ	AA3-SWSD-04 06/10/2006 Result	VQ	AA3-SWSD-05 06/10/2006 Result	VQ	AA3-SWSD-06 06/10/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	3.7	U	3.1	U	2.8	U	2.8	U	3.2	U	2.9	U
Chloroethane	SW8260			3000	ug/Kg	1.6	U	1.4	U	1.2	U	1.2	U	1.4	U	1.3	U
Chloroform	SW8260			220	ug/Kg	0.81	U	0.68	U	0.62	U	0.62	U	0.71	U	0.63	U
Chloromethane	SW8260			4700	ug/Kg	0.77	U	0.65	U	0.59	U	0.59	U	0.67	U	0.6	U
Cyclohexane	SW8260	13		280000	ug/Kg	0.8	U	0.67	U	0.61	U	4.6	J	7.1		0.62	U
Dibromochloromethane	SW8260			1100	ug/Kg	0.5	U	0.42	U	0.39	U	0.39	U	0.44	U	0.39	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	1.6	U	1.4	U	1.2	U	1.2	U	1.4	U	1.3	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	1.1	U	0.93	U	0.85	U	0.91	J	1.4	J	0.86	U
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	1.3	U	1.1	U	1	U	1	U	1.1	U	1	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2.4	U	2	U	1.8	U	1.8	U	2.1	U	1.8	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	0.44	U	0.37	U	0.34	U	6.6		9.4		5.4	J
Methylene Chloride	SW8260			9100	ug/Kg	0.91	U	0.77	U	0.7	U	0.7	U	0.8	U	0.72	U
Styrene	SW8260			440000	ug/Kg	0.52	U	0.44	U	0.4	U	0.4	U	0.45	U	0.4	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.47	U	0.4	U	0.36	U	0.36	U	0.41	U	0.37	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	1.4	U	1.2	U	1.1	U	1.1	U	1.2	U	1.1	U
Toluene	SW8260	9.1		66000	ug/Kg	1.3	U	1.1	U	0.98	U	3.5	JB	5.3	JB	2.9	JB
Trichloroethene (TCE)	SW8260			53	ug/Kg	1.2	U	1	U	0.96	U	0.97	U	1.1	U	0.98	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	1.4	U	1.2	U	1.1	U	1.1	U	1.2	U	1.1	U
Vinyl chloride	SW8260			79	ug/Kg	1.6	U	1.4	U	1.2	U	1.2	U	1.4	U	1.3	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	1	U	0.87	U	0.79	U	0.8	U	2.5	J	0.81	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	1.8	U	1.5	U	1.4	U	1.4	U	1.6	U	1.4	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	0.74	U	0.62	U	0.57	U	0.57	U	0.65	U	0.58	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	1.6	U	1.4	U	1.2	U	1.2	U	1.4	U	1.3	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.47	U	0.4	U	0.36	U	0.36	U	0.41	U	0.37	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site.
PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
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Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006		AA3-SWSD-08 06/12/2006		AA3-SWSD-08 (field dup) 06/12/2006		AA3-SWSD-09 06/09/2006		AA3-SWSD-10 06/09/2006		AA3-SWSD-11 06/09/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Wet Chemistry																	
Cyanide	SW9012	0.74		120	mg/Kg	0.19	UJ	0.22	U	0.22	U	0.21	UJ	0.19	UJ	0.37	UJ
Explosives																	
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
1,3-Dinitrobenzene	SW8330			610	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	100	U	120	U	120	U	120	U	120	U	110	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	100	U	120	U	120	U	120	U	120	U	110	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	120	U	140	U	140	U	140	U	140	U	130	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
3-Nitrotoluene	SW8330			73000	ug/Kg	120	U	140	U	140	U	140	U	140	U	130	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
HMX	SW8330	530		310000	ug/Kg	80	U	120	J	95	U	95	U	91	U	87	U
Nitrobenzene	SW8330			2000	ug/Kg	88	U	100	U	100	U	100	U	100	U	96	U
RDX	SW8330	100		4400	ug/Kg	80	U	98	J	95	U	95	U	91	U	87	U
Tetryl	SW8330			61000	ug/Kg	80	U	91	U	95	U	95	U	91	U	87	U
Metals																	
Aluminum	SW6010	16000	15500	7600	mg/Kg	8480	J	9040	J	10800	J	7520	J	5730	J	7080	J
Antimony	SW6010		9.3	3.1	mg/Kg	3.1	UJ	3.4	UJ	3.6	UJ	3.3	UJ	2.9	UJ	5.7	UJ
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	10.3	J	12.7		10.5		5.8	J	5.4	J	7.4	J
Barium	SW6010	111	826	540	mg/Kg	60.5	J	68.8		78.5		62.6	J	41.6	J	71.4	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.55	J	0.6	J	0.68	J	0.48	J	0.36	J	0.57	U
Cadmium	SW6010	0.98		3.7	mg/Kg	0.31	U	0.51	J	0.57	J	0.33	U	0.29	U	0.57	U
Calcium	SW6010	77700	52300		mg/Kg	46300		56600		68300		68600		34200		59900	
Chromium	SW6010	30.4	29		mg/Kg	14.4	J	15.3	J	18.3	J	12.7	J	9	J	11.8	J
Cobalt	SW6010	13.1	116	90	mg/Kg	8.4	J	9.8	J	10.7	J	8	J	4.9	J	6.4	J
Copper	SW6010	53.5	56.2	310	mg/Kg	21.8		24.6		30.1		20.3		12.3		22.3	
Iron	SW6010	34200	234000	2300	mg/Kg	20700	J	23000	J	25500	J	16400	J	12400	J	16600	J
Lead	SW6010	1460	48.6	40	mg/Kg	20.8		22.1	J	21.4	J	20.3		13.6		30.8	
Magnesium	SW6010	19800	10400		mg/Kg	12300		15200	J	19800	J	16700		9480		8940	
Manganese	SW6010	586	3506.2	180	mg/Kg	321	J	388	J	536	J	500	J	207	J	586	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.05	B	0.028	JB	0.026	JB	0.043	JB	0.044	B	0.084	JB
Nickel	SW6010	44.2	55.1	160	mg/Kg	23.1		26		29.3		21.4		13.7		16.8	J
Potassium	SW6010	1830	3390		mg/Kg	1130	J	1200	J	1600	J	1390	J	649	J	993	J
Selenium	SW6010	2.5	2	39	mg/Kg	0.92	U	1	U	1.1	U	0.99	U	0.88	U	1.7	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.31	U	0.34	U	0.36	U	0.33	U	0.29	U	0.57	U
Sodium	SW6010				mg/Kg	306	U	336	U	359	U	331	U	293	U	568	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.38	U	0.42	U	0.45	U	0.41	U	0.37	U	0.71	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	20.8		22.4		25.4		18.8		14.7		16.8	J
Zinc	SW6010	244	321.8	2300	mg/Kg	64.8		76.1	J	78.8	J	51.5		35.6		99.6	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006		AA3-SWSD-08 06/12/2006		AA3-SWSD-08 (field dup) 06/12/2006		AA3-SWSD-09 06/09/2006		AA3-SWSD-10 06/09/2006		AA3-SWSD-11 06/09/2006	
						Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds																	
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	30	UJ	34	UJ	34	UJ	32	UJ	30	UJ	58	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	58	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	58	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	58	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	30	UJ	34	UJ	34	U	32	UJ	45	J	240	J
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	30	UJ	34	UJ		UR	32	UJ	30	UJ	**420**	**J**
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	40	J	34	UJ		UR	32	UJ	45	J	490	J
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	30	UJ	34	UJ		UR	32	UJ	30	UJ	270	J
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	42	J	34	UJ		UR	32	UJ	33	J	360	J
Chrysene	SW8270_PAH	2500		62000	ug/Kg	44	J	34	UJ	34	U	40	J	51	J	410	J
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	30	UJ	34	UJ		UR	32	UJ	30	UJ	58	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	84	J	43	J	75	J	32	UJ	120	J	600	J
Fluorene	SW8270_PAH	120		270000	ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	58	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	30	UJ	34	UJ		UR	32	UJ	30	UJ	300	J
Naphthalene	SW8270_PAH			5600	ug/Kg	30	UJ	34	UJ	34	UJ	32	UJ	30	UJ	58	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	30	UJ	34	UJ	34	U	32	UJ	30	UJ	150	J
Pyrene	SW8270_PAH	4400		230000	ug/Kg	60	J	34	UJ	59	J	40	J	92	J	460	J
Polychlorinated Biphenyls (PCBs)																	
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	6	U	7	U	7	U	6.9	U	6.1	U	12	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	80		130		170		120		15		83	
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	150	U	170	U	170	U	160	UJ	150	UJ	290	UJ
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	150	U	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2,4-Dichlorophenol	SW8270			18000	ug/Kg	150	U	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2,4-Dimethylphenol	SW8270			120000	ug/Kg	150	U	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2,4-Dinitrophenol	SW8270			12000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
2-Chloronaphthalene	SW8270			490000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Foun. ,ık, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006 Result	VQ	AA3-SWSD-08 06/12/2006 Result	VQ	AA3-SWSD-08 (field dup) 06/12/2006 Result	VQ	AA3-SWSD-09 06/09/2006 Result	VQ	AA3-SWSD-10 06/09/2006 Result	VQ	AA3-SWSD-11 06/09/2006 Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	60	UJ	67	UJ	67	UJ	64	UJ	59	UJ	120	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
2-Nitrophenol	SW8270				ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	220	UJ	250	UJ	250	U	240	UJ	220	UJ	430	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	150	U	170	U	170	U	160	UJ	150	UJ	290	UJ
3-Nitroaniline	SW8270			18000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	150	U	170	U	170	U	160	UJ	150	UJ	290	UJ
4-Chloroaniline	SW8270			24000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	150	U	170	U	170	U	160	UJ	150	UJ	290	UJ
4-Nitroaniline	SW8270			23000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
4-Nitrophenol	SW8270				ug/Kg	150	U	170	U	170	U	160	UJ	150	UJ	290	UJ
Acenaphthene	SW8270				ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Acenaphthylene	SW8270	140			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Anthracene	SW8270	430		2200000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	240	J
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	**390**	**J**
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	440	J
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	230	J
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	380	J
Benzoic acid	SW8270	1500		24000000	ug/Kg		UR		UR		UR		UR		UR		UR
Benzyl alcohol	SW8270			1800000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Carbazole	SW8270			24000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Chrysene	SW8270	2600		62000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	380	J
Di-n-butylphthalate	SW8270			610000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Di-n-octylphthalate	SW8270			240000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Dibenzofuran	SW8270			15000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Diethylphthalate	SW8270			4900000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Dimethylphthalate	SW8270			61000000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	120	J	590	J
Fluorene	SW8270	120		270000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Hexachlorobenzene	SW8270			300	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Hexachlorobutadiene	SW8270			6200	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Hexachloroethane	SW8270			35000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	270	J

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location	AA3-SWSD-07		AA3-SWSD-08		AA3-SWSD-08 (field dup)		AA3-SWSD-09		AA3-SWSD-10		AA3-SWSD-11	
					Date	06/09/2006		06/12/2006		06/12/2006		06/09/2006		06/09/2006		06/09/2006	
					Units	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
Isophorone	SW8270			510000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	150	UJ	170	UJ	170	U	160	UJ	150	UJ	290	UJ
Naphthalene	SW8270			5600	ug/Kg	60	UJ	67	UJ	67	UJ	64	UJ	59	UJ	120	UJ
Nitrobenzene	SW8270			2000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Phenanthrene	SW8270	1800			ug/Kg	60	UJ	67	UJ	67	U	64	UJ	59	UJ	120	UJ
Phenol	SW8270			1800000	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
Pyrene	SW8270	4200		230000	ug/Kg	60	UJ	67	UJ	67	U	64	UJ	88	J	450	J
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	150	UJ	170	UJ	170	UJ	160	UJ	150	UJ	290	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	260	J	170	UJ	170	U	170	J	150	UJ	290	UJ
Volatile Organic Compounds																	
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	1.1	U	1.4	U	1.3	U	1.1	U	1	U	2.5	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.53	U	0.67	U	0.62	U	0.53	U	0.5	U	1.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	0.68	U	0.86	U	0.8	U	0.68	U	0.64	U	1.5	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.43	U	0.54	U	0.51	U	0.43	U	0.41	U	0.97	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	0.67	U	0.84	U	0.78	U	0.67	U	0.63	U	1.5	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	1.5	U	1.9	U	1.7	U	1.5	U	1.4	U	3.3	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.52	U	0.65	U	0.61	U	0.52	U	0.49	U	1.2	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.22	U	0.28	U	0.26	U	0.22	U	0.21	U	0.5	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	1.5	U	1.9	U	1.7	U	1.5	U	1.4	U	3.3	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.53	U	0.67	U	0.62	U	0.53	U	0.5	U	1.2	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.46	U	0.58	U	0.54	U	0.46	U	0.43	U	1	U
1,2-Dichloroethane	SW8260			280	ug/Kg	0.57	U	0.72	U	0.66	U	0.57	U	0.54	U	1.3	U
1,2-Dichloropropane	SW8260			340	ug/Kg	0.57	U	0.72	U	0.66	U	0.57	U	0.54	U	1.3	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	1	U	1.3	U	1.2	U	1	U	0.98	U	2.3	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	0.68	U	0.86	U	0.8	U	0.68	U	0.64	U	1.5	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	1.7	U	2.2	U	2	U	1.7	U	1.6	U	3.9	U
2-Hexanone	SW8260				ug/Kg	2.8	U	3.6	U	3.3	U	2.8	U	2.7	U	6.4	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	0.72	U	0.9	U	0.84	U	0.72	U	0.68	U	1.6	U
Acetone	SW8260	180		1400000	ug/Kg	14	JB	14	J	18	J	23	JB	16	JB	180	JB
Benzene	SW8260	4.7		640	ug/Kg	1.6	J	2.4	J	3.6	J	2.1	J	2.8	J	4.7	J
Bromochloromethane	SW8260				ug/Kg	0.52	U	0.65	U	0.61	U	0.52	U	0.49	U	1.2	U
Bromodichloromethane	SW8260			820	ug/Kg	0.37	U	0.47	U	0.43	U	0.37	U	0.35	U	0.83	U
Bromoform	SW8260			62000	ug/Kg	1.2	U	1.6	U	1.4	U	1.2	U	1.2	U	2.8	U
Bromomethane	SW8260			390	ug/Kg	0.89	U	1.1	U	1	U	0.89	U	0.84	U	2	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.6	U	2	U	2.6	J	4.5	J	3.1	J	48	
Carbon tetrachloride	SW8260			250	ug/Kg	1.1	U	1.4	U	1.3	U	1.1	U	1	U	2.4	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Foun. .nk, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-07 06/09/2006 Result	VQ	AA3-SWSD-08 06/12/2006 Result	VQ	AA3-SWSD-08 (field dup) 06/12/2006 Result	VQ	AA3-SWSD-09 06/09/2006 Result	VQ	AA3-SWSD-10 06/09/2006 Result	VQ	AA3-SWSD-11 06/09/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	3.1	U	3.9	U	3.6	U	3.1	U	2.9	U	6.9	U
Chloroethane	SW8260			3000	ug/Kg	1.4	U	1.7	U	1.6	U	1.4	U	1.3	U	3	U
Chloroform	SW8260			220	ug/Kg	0.68	U	0.86	U	0.8	U	0.68	U	0.64	U	1.5	U
Chloromethane	SW8260			4700	ug/Kg	0.64	U	0.81	U	0.75	U	0.65	U	0.61	U	1.4	U
Cyclohexane	SW8260	13		280000	ug/Kg	4.8	J	7.8	J	12		7.6		6.2		13	J
Dibromochloromethane	SW8260			1100	ug/Kg	0.42	U	0.53	U	0.49	U	0.42	U	0.4	U	0.94	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	1.4	U	1.7	U	1.6	U	1.4	U	1.3	U	3	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	0.93	U	1.2	U	1.1	J	0.93	U	0.87	U	2.2	J
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	1.1	U	1.4	U	1.3	U	1.1	U	1	U	2.4	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	2	U	2.5	U	2.3	U	2	U	1.9	U	4.4	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	6.2	J	10		14		10		8.8		17	
Methylene Chloride	SW8260			9100	ug/Kg	0.77	U	0.97	U	0.9	U	0.77	U	0.72	U	1.7	U
Styrene	SW8260			440000	ug/Kg	0.43	U	0.54	U	0.51	U	0.43	U	0.41	U	0.97	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.4	U	0.5	U	0.46	U	0.4	U	0.37	U	0.88	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	1.2	U	1.5	U	1.4	U	1.2	U	1.1	U	2.7	U
Toluene	SW8260	9.1		66000	ug/Kg	1.9	JB	3.2	JB	5.1	JB	3	JB	3.6	JB	9.1	JB
Trichloroethene (TCE)	SW8260			53	ug/Kg	1	U	1.3	U	1.2	U	1	U	0.99	U	2.4	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	1.2	U	1.5	U	1.4	U	1.2	U	1.1	U	2.6	U
Vinyl chloride	SW8260			79	ug/Kg	1.4	U	1.7	U	1.6	U	1.4	U	1.3	U	3	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	0.87	U	1.1	U	1	U	0.87	U	0.82	U	1.9	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	1.5	U	1.9	U	1.7	U	1.5	U	1.4	U	3.3	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	0.62	U	0.78	U	0.72	U	0.62	U	0.58	U	1.4	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	1.4	U	1.7	U	1.6	U	1.4	U	1.3	U	3	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.4	U	0.5	U	0.46	U	0.4	U	0.37	U	0.88	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
Wet Chemistry									
Cyanide	SW9012	0.74		120	mg/Kg	0.16	UJ	0.42	J
Explosives									
1,3,5-Trinitrobenzene	SW8330	180		180000	ug/Kg	87	U	80	U
1,3-Dinitrobenzene	SW8330			610	ug/Kg	87	U	80	U
2,4,6-Trinitrotoluene	SW8330	770		16000	ug/Kg	87	U	80	U
2,4-Dinitrotoluene	SW8330	720		12000	ug/Kg	110	U	100	U
2,6-Dinitrotoluene	SW8330			6100	ug/Kg	110	U	100	U
2-Amino-4,6-Dinitrotoluene	SW8330				ug/Kg	130	U	120	U
2-Nitrotoluene	SW8330	170		880	ug/Kg	87	U	80	U
3-Nitrotoluene	SW8330			73000	ug/Kg	130	U	120	U
4-Amino-2,6-Dinitrotoluene	SW8330				ug/Kg	87	U	80	U
4-Nitrotoluene	SW8330	96		12000	ug/Kg	87	U	80	U
HMX	SW8330	530		310000	ug/Kg	87	U	80	U
Nitrobenzene	SW8330			2000	ug/Kg	96	U	88	U
RDX	SW8330	100		4400	ug/Kg	87	U	80	U
Tetryl	SW8330			61000	ug/Kg	87	U	80	U
Metals									
Aluminum	SW6010	16000	15500	7600	mg/Kg	8690	J	8440	J
Antimony	SW6010		9.3	3.1	mg/Kg	2.6	UJ	3.9	UJ
Arsenic	SW6010	15.4	36.5	0.39	mg/Kg	11.7	J	7.1	J
Barium	SW6010	111	826	540	mg/Kg	69.3		67.6	J
Beryllium	SW6010	1.1	1	15	mg/Kg	0.52	J	0.53	J
Cadmium	SW6010	0.98		3.7	mg/Kg	0.33	J	0.39	U
Calcium	SW6010	77700	52300		mg/Kg	62700		77700	
Chromium	SW6010	30.4	29		mg/Kg	14.5	J	14.2	J
Cobalt	SW6010	13.1	116	90	mg/Kg	9.6	J	8.5	J
Copper	SW6010	53.5	56.2	310	mg/Kg	24.1		22.3	
Iron	SW6010	34200	234000	2300	mg/Kg	20400	J	19600	J
Lead	SW6010	1460	48.6	40	mg/Kg	12.6		15.1	
Magnesium	SW6010	19800	10400		mg/Kg	18500		15600	
Manganese	SW6010	586	3506.2	180	mg/Kg	484	J	495	J
Mercury	SW7471	1.1	0.1	2.3	mg/Kg	0.038	B	0.055	B
Nickel	SW6010	44.2	55.1	160	mg/Kg	26		22.8	
Potassium	SW6010	1830	3390		mg/Kg	1830	J	1410	J
Selenium	SW6010	2.5	2	39	mg/Kg	0.79	U	1.2	U
Silver	SW6010	0.32	11.1	39	mg/Kg	0.26	U	0.39	U
Sodium	SW6010				mg/Kg	264	U	391	U
Thallium	SW6010		1.3	0.52	mg/Kg	0.33	U	0.49	U
Vanadium	SW6010	32.2	40.9	7.8	mg/Kg	20.5		20.9	
Zinc	SW6010	244	321.8	2300	mg/Kg	59.1		61.7	

J - Estimated Value, U - Non-detection, R - Rejected, B - Founc .nk, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
Polyaromatic Hydrocarbon (PAH) Compounds									
2-Methylnaphthalene	SW8270_PAH	60			ug/Kg	26	UJ	36	UJ
Acenaphthene	SW8270_PAH	39			ug/Kg	26	UJ	36	UJ
Acenaphthylene	SW8270_PAH	150			ug/Kg	26	UJ	36	UJ
Anthracene	SW8270_PAH	440		2200000	ug/Kg	26	UJ	36	UJ
Benzo(a)anthracene	SW8270_PAH	2400		620	ug/Kg	26	UJ	36	UJ
Benzo(a)pyrene	SW8270_PAH	2700		62	ug/Kg	26	UJ	36	UJ
Benzo(b)fluoranthene	SW8270_PAH	2900		620	ug/Kg	26	UJ	36	UJ
Benzo(g,h,i)perylene	SW8270_PAH	900			ug/Kg	26	UJ	36	UJ
Benzo(k)fluoranthene	SW8270_PAH	2600		6200	ug/Kg	26	UJ	36	UJ
Chrysene	SW8270_PAH	2500		62000	ug/Kg	26	UJ	36	UJ
Dibenz(a,h)anthracene	SW8270_PAH	250		62	ug/Kg	26	UJ	36	UJ
Fluoranthene	SW8270_PAH	4200		230000	ug/Kg	35	J	36	UJ
Fluorene	SW8270_PAH	120		270000	ug/Kg	26	UJ	36	UJ
Indeno(1,2,3-cd)pyrene	SW8270_PAH	1200		620	ug/Kg	26	UJ	36	UJ
Naphthalene	SW8270_PAH			5600	ug/Kg	26	UJ	36	UJ
Phenanthrene	SW8270_PAH	1900			ug/Kg	26	UJ	36	UJ
Pyrene	SW8270_PAH	4400		230000	ug/Kg	36	J	36	UJ
Polychlorinated Biphenyls (PCBs)									
PCB-1016 (Aroclor 1016)	SW8082			390	ug/Kg	5.4	U	7.5	U
PCB-1221 (Aroclor 1221)	SW8082			220	ug/Kg	5.4	U	7.5	U
PCB-1232 (Aroclor 1232)	SW8082			220	ug/Kg	5.4	U	7.5	U
PCB-1242 (Aroclor 1242)	SW8082			220	ug/Kg	5.4	U	7.5	U
PCB-1248 (Aroclor 1248)	SW8082			220	ug/Kg	5.4	U	7.5	U
PCB-1254 (Aroclor 1254)	SW8082			220	ug/Kg	5.4	U	7.5	U
PCB-1260 (Aroclor 1260)	SW8082	18000		220	ug/Kg	8.6	J	19	
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	SW8270			6200	ug/Kg	130	UJ	180	UJ
1,2-Dichlorobenzene	SW8270			110000	ug/Kg	130	UJ	180	UJ
1,2-Diphenylhydrazine	SW8270			610	ug/Kg	130	UJ	180	UJ
1,3-Dichlorobenzene	SW8270			53000	ug/Kg	130	UJ	180	UJ
1,4-Dichlorobenzene	SW8270			3400	ug/Kg	130	UJ	180	UJ
2,4,5-Trichlorophenol	SW8270			610000	ug/Kg	130	UJ	180	U
2,4,6-Trichlorophenol	SW8270			610	ug/Kg	130	UJ	180	U
2,4-Dichlorophenol	SW8270			18000	ug/Kg	130	UJ	180	U
2,4-Dimethylphenol	SW8270			120000	ug/Kg	130	UJ	180	U
2,4-Dinitrophenol	SW8270			12000	ug/Kg	130	UJ	180	UJ
2,4-Dinitrotoluene	SW8270	560		12000	ug/Kg	130	UJ	180	UJ
2,6-Dinitrotoluene	SW8270			6100	ug/Kg	130	UJ	180	UJ
2-Chloronaphthalene	SW8270			490000	ug/Kg	130	UJ	180	UJ
2-Chlorophenol	SW8270			6300	ug/Kg	130	UJ	180	UJ

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
2-Methylnaphthalene	SW8270	54			ug/Kg	52	UJ	72	UJ
2-Methylphenol (o-Cresol)	SW8270			310000	ug/Kg	130	UJ	180	UJ
2-Nitroaniline	SW8270			18000	ug/Kg	130	UJ	180	UJ
2-Nitrophenol	SW8270				ug/Kg	130	UJ	180	UJ
3,3'-Dichlorobenzidine	SW8270			1100	ug/Kg	200	UJ	270	UJ
3-Methylphenol	SW8270	150		310000	ug/Kg	130	UJ	180	U
3-Nitroaniline	SW8270			18000	ug/Kg	130	UJ	180	UJ
4,6-Dinitro-2-methylphenol	SW8270			610	ug/Kg	130	UJ	180	UJ
4-Bromophenyl phenyl ether	SW8270				ug/Kg	130	UJ	180	UJ
4-Chloro-3-methylphenol	SW8270				ug/Kg	130	UJ	180	U
4-Chloroaniline	SW8270			24000	ug/Kg	130	UJ	180	UJ
4-Chlorophenyl phenyl ether	SW8270				ug/Kg	130	UJ	180	UJ
4-Methylphenol (p-Cresol)	SW8270	150		31000	ug/Kg	130	UJ	180	U
4-Nitroaniline	SW8270			23000	ug/Kg	130	UJ	180	UJ
4-Nitrophenol	SW8270				ug/Kg	130	UJ	180	U
Acenaphthene	SW8270				ug/Kg	52	UJ	72	UJ
Acenaphthylene	SW8270	140			ug/Kg	52	UJ	72	UJ
Anthracene	SW8270	430		2200000	ug/Kg	52	UJ	72	UJ
Benzo(a)anthracene	SW8270	2300		620	ug/Kg	52	UJ	72	UJ
Benzo(a)pyrene	SW8270	2900		62	ug/Kg	52	UJ	72	UJ
Benzo(b)fluoranthene	SW8270	2900		620	ug/Kg	52	UJ	72	UJ
Benzo(g,h,i)perylene	SW8270	1100			ug/Kg	52	UJ	72	UJ
Benzo(k)fluoranthene	SW8270	2200		6200	ug/Kg	52	UJ	72	UJ
Benzoic acid	SW8270	1500		24000000	ug/Kg		UR		UR
Benzyl alcohol	SW8270			1800000	ug/Kg	130	UJ	180	UJ
Benzyl butyl phthalate	SW8270			1200000	ug/Kg	130	UJ	180	UJ
Carbazole	SW8270			24000	ug/Kg	52	UJ	72	UJ
Chrysene	SW8270	2600		62000	ug/Kg	52	UJ	72	UJ
Di-n-butylphthalate	SW8270			610000	ug/Kg	130	UJ	180	UJ
Di-n-octylphthalate	SW8270			240000	ug/Kg	130	UJ	180	UJ
Dibenz(a,h)anthracene	SW8270	320		62	ug/Kg	52	UJ	72	UJ
Dibenzofuran	SW8270			15000	ug/Kg	130	UJ	180	UJ
Diethylphthalate	SW8270			4900000	ug/Kg	130	UJ	180	UJ
Dimethylphthalate	SW8270			61000000	ug/Kg	130	UJ	180	UJ
Fluoranthene	SW8270	3900		230000	ug/Kg	52	UJ	72	UJ
Fluorene	SW8270	120		270000	ug/Kg	52	UJ	72	UJ
Hexachlorobenzene	SW8270			300	ug/Kg	130	UJ	180	UJ
Hexachlorobutadiene	SW8270			6200	ug/Kg	130	UJ	180	UJ
Hexachlorocyclopentadiene	SW8270			37000	ug/Kg	130	UJ	180	UJ
Hexachloroethane	SW8270			35000	ug/Kg	130	UJ	180	UJ
Indeno(1,2,3-cd)pyrene	SW8270	1400		620	ug/Kg	52	UJ	72	UJ

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
Isophorone	SW8270			510000	ug/Kg	130	UJ	180	UJ
N-Nitroso-di-n-propylamine	SW8270			69	ug/Kg	130	UJ	180	UJ
N-Nitrosodimethylamine	SW8270			9.5	ug/Kg	130	UJ	180	UJ
N-Nitrosodiphenylamine	SW8270			99000	ug/Kg	130	UJ	180	UJ
Naphthalene	SW8270			5600	ug/Kg	52	UJ	72	UJ
Nitrobenzene	SW8270			2000	ug/Kg	130	UJ	180	UJ
Pentachlorophenol	SW8270			3000	ug/Kg	130	UJ	180	UJ
Phenanthrene	SW8270	1800			ug/Kg	52	UJ	72	UJ
Phenol	SW8270			1800000	ug/Kg	130	UJ	180	UJ
Pyrene	SW8270	4200		230000	ug/Kg	52	UJ	72	UJ
bis(2-Chloroethoxy)methane	SW8270				ug/Kg	130	UJ	180	UJ
bis(2-Chloroethyl)ether (2-Chloroethylether)	SW8270			220	ug/Kg	130	UJ	180	UJ
bis(2-Chloroisopropyl)ether	SW8270			2900	ug/Kg	130	UJ	180	UJ
bis(2-Ethylhexyl)phthalate	SW8270	260		35000	ug/Kg	130	UJ	180	UJ
Volatile Organic Compounds									
1,1,1-Trichloroethane	SW8260			200000	ug/Kg	0.99	U	1.8	U
1,1,2,2-Tetrachloroethane	SW8260			410	ug/Kg	0.47	U	0.84	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260			2100000	ug/Kg	0.6	U	1.1	U
1,1,2-Trichloroethane	SW8260			730	ug/Kg	0.38	U	0.69	U
1,1-Dichloroethane	SW8260			51000	ug/Kg	0.59	U	1	U
1,1-Dichloroethene	SW8260			12000	ug/Kg	1.3	U	2.4	U
1,2,3-Trichlorobenzene	SW8260				ug/Kg	0.46	U	0.82	U
1,2,4-Trichlorobenzene	SW8260			6200	ug/Kg	0.2	U	0.35	U
1,2-Dibromo-3-chloropropane	SW8260			460	ug/Kg	1.3	U	2.4	U
1,2-Dibromoethane (EDB)	SW8260			32	ug/Kg	0.47	U	0.84	U
1,2-Dichlorobenzene	SW8260			110000	ug/Kg	0.41	U	0.72	U
1,2-Dichloroethane	SW8260			280	ug/Kg	0.5	U	0.9	U
1,2-Dichloropropane	SW8260			340	ug/Kg	0.5	U	0.9	U
1,3-Dichlorobenzene	SW8260			53000	ug/Kg	0.92	U	1.6	U
1,4-Dichlorobenzene	SW8260			3400	ug/Kg	0.6	U	1.1	U
2-Butanone (Methyl ethyl ketone)	SW8260	20		2200000	ug/Kg	1.5	U	2.7	U
2-Hexanone	SW8260				ug/Kg	2.5	U	4.5	U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260			530000	ug/Kg	0.64	U	1.1	U
Acetone	SW8260	180		1400000	ug/Kg	28	JB	99	JB
Benzene	SW8260	4.7		640	ug/Kg	0.78	J	3.4	J
Bromochloromethane	SW8260				ug/Kg	0.46	U	0.82	U
Bromodichloromethane	SW8260			820	ug/Kg	0.33	U	0.59	U
Bromoform	SW8260			62000	ug/Kg	1.1	U	2	U
Bromomethane	SW8260			390	ug/Kg	0.79	U	1.4	U
Carbon Disulfide	SW8260	48		36000	ug/Kg	1.9	J	31	
Carbon tetrachloride	SW8260			250	ug/Kg	0.97	U	1.7	U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in blank, N - Presumptive evidence of a compound

Plum Brook Ordnance Works
2006 ELAB Sediment Data

Analyte	Method	Max. Detect	Soil Bkg.	PRG*	Location Date Units	AA3-SWSD-12 06/09/2006 Result	VQ	AA3-SWSD-13 06/09/2006 Result	VQ
Chlorobenzene	SW8260			15000	ug/Kg	2.7	U	4.9	U
Chloroethane	SW8260			3000	ug/Kg	1.2	U	2.2	U
Chloroform	SW8260			220	ug/Kg	0.6	U	1.1	U
Chloromethane	SW8260			4700	ug/Kg	0.57	U	1	U
Cyclohexane	SW8260	13		280000	ug/Kg	2.6	J	12	
Dibromochloromethane	SW8260			1100	ug/Kg	0.37	U	0.67	U
Dichlorodifluoromethane	SW8260			9400	ug/Kg	1.2	U	2.2	U
Ethylbenzene	SW8260	2.2		190000	ug/Kg	0.82	U	1.5	U
Isopropylbenzene (Cumene)	SW8260			57000	ug/Kg	0.97	U	1.7	U
Methyl Acetate	SW8260	290		2200000	ug/Kg	1.8	U	3.1	U
Methylcyclohexane	SW8260	17		260000	ug/Kg	3.2	J	15	
Methylene Chloride	SW8260			9100	ug/Kg	0.68	U	1.2	U
Styrene	SW8260			440000	ug/Kg	0.38	U	0.69	U
Tert-Butyl Methyl Ether (MTBE)	SW8260			32000	ug/Kg	0.35	U	0.63	U
Tetrachloroethene (PCE)	SW8260			480	ug/Kg	1.1	U	1.9	U
Toluene	SW8260	9.1		66000	ug/Kg	1	JB	4.5	JB
Trichloroethene (TCE)	SW8260			53	ug/Kg	0.93	U	1.7	U
Trichlorofluoromethane	SW8260			39000	ug/Kg	1	U	1.9	U
Vinyl chloride	SW8260			79	ug/Kg	1.2	U	2.2	U
Xylenes, Total	SW8260	2.5		27000	ug/Kg	0.77	U	1.4	U
cis-1,2-Dichloroethene	SW8260			4300	ug/Kg	1.3	U	2.4	U
cis-1,3-Dichloropropene	SW8260				ug/Kg	0.55	U	0.98	U
trans-1,2-Dichloroethene	SW8260			6900	ug/Kg	1.2	U	2.2	U
trans-1,3-Dichloropropene	SW8260				ug/Kg	0.35	U	0.63	U

* PRGs were obtained from the U.S. EPA Region 9 Web-Site. PRGs based on non-cancer effects (designated in the Region 9 tables with an "nc") were divided by 10 to account for potentia cumulative impacts. PRGs designated in the Region 9 tables with a "sat", or "max" code indicating a soil saturation limit or maximum possible concentration were not modified, rather the PRG based on the underlying non-cancer effect was modified

APPENDIX K

Appendix K

Chemical Quality Assurance Report

(assessment of the QA analytical laboratory data).

Chemical Quality Assurance Report

Acid Areas
Remedial Investigation, Part 1
Former Plum Brook Ordnance Works
Sandusky, OH

October/November 2004 Sampling Event

Presented by:

Stratum Engineering, Inc.
3751 Pennridge Drive, Suite 119
Bridgeton, MO 63044
POC: Filippe B. Cade, PE; (314) 739-1987

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Abbreviations and Acronyms

ASC	Analytical Services Center
CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LDP	Laboratory Data Package
LLR	Lowest Level for Reporting
MB	Method Blank
MDL	Method Detection Limit
mg/L	milligram per liter
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
µg/L	Microgram per liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

INTRODUCTION

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the soil and sediment sampling event performed by Jacobs Engineering, Inc. at the Acid Areas at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio in late-October/early-November 2004. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of QA samples that were collected in conjunction with the project QC samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Table 1-1 Primary/QC/QA Sample Number Correlation. The QA data is presented in tables in Attachment II – QA Data Summary.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocol:

- *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, November 1986, (SW-846)

Specific analytical methods used included the following:

- SW-846 8260B – volatile organic compounds (VOCs);
- SW-846 8270C – semivolatile organic compounds (SVOCs);
- SW-846 8082 – polychlorinated biphenyls (PCBs);
- SW-846 8330A – nitroaromatic compounds (referred to as explosives hereafter);
- SW-846 6010B – total metals by Inductively Coupled Argon Plasma Spectrophotometer (ICAP); and
- SW-846 7471A – total mercury.

Analytical Laboratories

The following analytical laboratory was contracted to analyze the Primary/QC field samples for this project:

Analytical Services Center (ASC)
Division of Ecology and Environment, Inc.
Contact: Tony Bogolin, Project Manager
4493 Walden Avenue
Lancaster, NY 14086
Phone: (716) 685-8080; Fax: (716) 685-0852

The following analytical laboratory was contracted to analyze the QA field samples for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115; Fax: (615) 846-5426

Both of these laboratories have been validated by the US Army Corps of Engineers (USACE).

Data Evaluation Procedures

The quality of these data has been evaluated following procedures consistent with those included in Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects*, 10 October 1997, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The following data quality issues were addressed in this evaluation:

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review of field QC blank data to detect contamination from outside sources;
- Review of QC data to evaluate data reproducibility;
- Review of laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates;
- Assign appropriate qualifiers to usable data and qualify unusable data as rejected, if necessary; and
- Data evaluation findings presented in term of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

The following definitions provide explanations of the data qualifiers that were assigned to results in the data review process. The data qualifier definitions are consistent with those used within the *Functional Guidelines* referenced above.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

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

I. QC DATA EVALUATION

A. Accuracy:

1) Volatile Organic Compounds

- For Sample Delivery Group (SDG) 0410348, eight compounds were reported as having low percent recoveries (%Rs) and one compound was reported as having a high %R for the matrix spike (MS). The matrix spike duplicate (MSD) for this SDG reported four low %Rs. SDG-0411164 did not report results for MS/MSD analyses.
- One laboratory control sample (LCS) for SDG-0410348 reported a high %R for trichlorofluoromethane, all other LCS %Rs in this SDG were within limits. One LCS for SDG-0410359 reported high %Rs for methyl acetate and trichlorofluoromethane and another LCS for this SDG reported a high %R for trichlorofluoromethane.
- Surrogate recovery was high for the original analysis and reanalysis of samples PBOW-04-SD-AA2-SWSD-02-A of SDG-0410348, PBOW-04-SO-AA3-SB-19-A(8-10) of SDG-0411164, and PBOW-04-SO-AA2-SB-16-A(.5-1.5) of SDG-0410359.
- The trip blank (TB) for SDG-0410348 reported a detectable concentration of the common laboratory contaminant acetone at a concentration of 11.0 µg/L. The TB for SDG-0410359 reported detectable concentrations of 11.3 µg/L for acetone and 0.461 J µg/L for toluene. The TB for SDG-0411164 reported a detectable concentration of 12.9 µg/L for acetone.
- The internal standard area responses for the following samples from SDG-0411164 were found to be below the criteria limits for their original analyses and reanalyses, suggesting a potential matrix effect.

  PBOW-04-SO-AA3-SB-19-A(8-10)
  PBOW-04-SO-AA3-SB-23-A(3-5)
  PBOW-04-SO-AA3-SB-23-D(3-5)
  PBOW-04-SO-AA3-SB-23-A(8-10)

- Holding times for the following samples from SDG-0410359 exceeded the criteria limit of 14 days by 45 minutes to 2 hours for the following soil samples:

  PB-04-SO-AA2-SB-18-D(.5-1.5)
  PB-04-SO-AA2-SB-18-A(3-5)
  PB-04-SO-AA2-SB-18-D(3-5)
  PB-04-SO-AA2-SB-18-A(8-10)
  PB-04-SO-AA2-SB-17-A(.5-1.5)
  PB-04-SO-AA2-SB-17-A(3-5)
  PB-04-SO-AA2-SB-17-A(8-10)

2) Semivolatile Organic Compounds

- For SDG-0410348, 19 compounds were reported as having low %Rs and one compound was reported as having a high %R for the matrix spike (MS). The MSD for this SDG was reported to have 13 low %Rs and three high %Rs.

- One LCS for SDG-0410359 reported low %Rs for: 3,3-dichlorobenzidine, 4-chloroaniline, 4-nitroaniline, acetophenone, atrazine, benzaldehyde, caprolactam, and hexachlorocyclopentadiene. The LCS for SDG-0411164 reported low %Rs for: 1,1-biphenyl, 2,4-dimethylphenol, 3,3-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, acetophenone, atrazine, benzaldehyde, caprolactam, and hexachloropentadiene. The LCS for SDG-0410348 reported low %Rs for 3,3-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and hexachloropentadiene. The following chemicals were omitted from the LCS spike for SDG-0410348, therefore their %Rs were reported as zero: acetophenone, atrazine, benzaldehyde, and caprolactam.
- Surrogate recovery was high for sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) and its replicate analysis for SDG-0411164.
- Sample PBOW-04-SO-AA3-SB-17-A(3-5) had a dilution factor of 20.
- Sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) had a dilution factor of 5.

3) Explosives

- No QC results were reported as outside control criteria limits for explosives analyses included in SDGs-0410348, 0411164, and 0410359.

4) Polychlorinated Biphenyls

- Surrogate recoveries for decachlorobiphenyl and tetrachloro-m-xylene were diluted out on the following samples due to matrix interferences. Sample results are estimated.

  PBOW-04-SO-AA2-SB-16-A(.5-1.5)
  PBOW-04-SO-AA2-SB-17-A(.5-1.5)
  PBOW-04-SO-AA3-SB-19-A(.5-1.5)
  PBOW-04-SO-AA3-SB-21-A(.5-1.5)
  PBOW-04-SD-AA2-SWSD-01
  PBOW-04-SD-AA2-SWSD-02D

- Surrogate recovery for tetrachloro-m-xylene was outside criteria limits for sample PBOW-04-SO-AA3-SB-17-A(.5-1.5). Sample results are estimated.
- Surrogate recovery for decachlorobiphenyl was outside of criteria limits for the following samples. Sample results are estimated.

  PBOW-04-SO-AA3-SB-23-A(.5-1.5)
  PBOW-04-SO-AA3-SB-23-A(3-5)
  PBOW-04-SD-AA2-SWSD-03A

- Sample PBOW-04-SO-AA2-SB-16-A(.5-1.5) had a dilution factor of 100.
- Sample PBOW-04-SO-AA2-SB-17-A(.5-1.5) had a dilution factor of 20.
- Sample PBOW-04-SO-AA3-SB-17-D(.5-1.5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA3-SB-19-A(.5-1.5) had a dilution factor of 50.
- Sample PBOW-04-SO-AA3-SB-21-A(.5-1.5) had a dilution factor of 20.

- Sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) had a dilution factor of 10.
- Sample PBOW-04-SO-AA3-SB-23-A(3-5) had a dilution factor of 5.
- Sample PBOW-04-SO-AA3-SB-23-D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SD-AA2-SWSD-01 had a dilution factor of 20.
- Sample PBOW-04-SD-AA2-SWSD-02D had a dilution factor of 20.
- Sample PBOW-04-SD-AA2-SWSD-03A had a dilution factor of 5.
- Sample PBOW-04-SD-AA3-SWSD-02A had a dilution factor of 5.

5) Metals

- The %Rs reported for the MS and MSD of SDG-0410348 for aluminum, antimony, calcium, iron, and potassium were outside the QC criteria limits.
- The %Rs for the MS and MSD of SDG-0411164 for aluminum, antimony, barium, calcium, iron, magnesium, manganese, potassium, and zinc were outside the QC criteria limit. The %Rs for the MS only of this SDG for nickel and vanadium were outside the QC criteria limit.
- Sample PBOW-04-SO-AA2-SB-16A(.5-1.5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-18D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-18A(8-10) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-17A(8-10) had a dilution factor of 2.
- Sample PBOW-04-SO-AA3-SB-17A(.5-1.5) had a dilution factor of 5.
- Sample PBOW-04-SO-AA3-SB-19D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-17A(8-10) had a dilution factor of 2.
- Selenium was analyzed at a dilution factor of 5 for sample PBOW-04-SO-AA2-SB-16A(8-10).
- Selenium was analyzed at a dilution factor of 2 for the following samples:

  PBOW-04-SO-AA2-SB-18A(3-5)
  PBOW-04-SO-AA2-SB-18D(3-5)
  PBOW-04-SO-AA2-SB-18A(8-10)
  PBOW-04-SO-AA2-SB-17A(8-10)

B. Precision

1) Volatile Organic Compounds

- The MS/MSD pair relative percent difference (RPD) for SDG-0410348 was reported as just slightly higher (35.9%) than the criteria limit (35%) for acetone.

2) Semivolatile Organic Compounds

- For SDG-0410348, 19 compounds were reported as having low %Rs and one compound was reported as having a high %R for the matrix spike (MS). The MS/MSD pair for SDG-0410348 was reported to have seven RPDs that could not be calculated (because the %Rs were zero) and three RPDs that were above the criteria limits.

3) Explosives

- All QC recoveries were within the criteria limits.

4) Polychlorinated Biphenyls

- The MS/MSD pair RPD was reported as greater than the criteria limit for SDG-0410348.

5) Metals

- Calcium, iron, and manganese had high RPDs, outside the criteria limits, for the MS/MSD pair of SDG-0410348.
- Zinc was found to be outside the serial dilution criteria limits for SDG-0410348.
- Manganese was found to have a high RPD, outside the criteria limits, for the MS/MSD pair of SDG-0411164.
- Cobalt, magnesium, nickel, and vanadium were found to be outside the serial dilution criteria limits for SDG-0411164.
- Zinc was found to be outside the serial dilution criteria limits for SDG-0410359.

C. Laboratory Contamination

1) Volatile Organic Compounds

- Detectable concentrations of 1.763 µg/L were reported for one method blank (MB) of SDG-0410348 and one MB for SDG-0410359 for the common laboratory contaminant methylene chloride.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated blanks.

3) Explosives

- No contamination was found in any of the associated blanks.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated blanks.

5) Metals

- Chromium was detected at concentrations of 0.1435 µg/L in the MB and 1.182 µg/L in one of the continuing calibration blanks of SDG-0410348. Iron was detected in another continuing calibration blank of this SDG at a concentration of 38.54 µg/L.

- Iron and potassium were detected in the MB of SDG-0411164 at concentrations above the method detection limit, but below the reporting limit.
- Aluminum, magnesium, potassium, sodium, and iron were detected in one or more continuing calibration blanks of SDG-0411164.

II. QA DATA EVALUATION

a. Accuracy

1) Volatile Organic Compounds

- One LCS of SDG-0411099 had a %R only slightly lower (73%) than the criteria limit (74%) for 1,4-dichlorobenzene.
- The MS for SDG 0410181 and 0410196 had a low %R for carbon disulfide.

2) Semivolatile Organic Compounds

- The MS had a low %R for N-nitroso-di-methylamine for SDG-0411099. The MSD had low %Rs for N-nitroso-di-methylamine and hexachlorocyclopentadiene for the same SDG.
- One LCS for SDG-0411099 had low %Rs for benzoic acid and 2,4-dinitrophenol.
- The MS %Rs were low for benzoic acid and N-nitroso-di-methylamine for SDG-0410181 and 0410196.

3) Explosives

- The MS for SDG-0410181 and 0410196 had a high %R for 4-amino-2,6-dinitrotoluene.

4) Polychlorinated Biphenyls

- All QC samples were within criteria limits.

5) Metals

- The MS of SDG-0410181 and 0410196 had low %Rs for aluminum, antimony, iron, magnesium, manganese, nickel, and zinc. The MSD of these same SDGs had a low %R for antimony and high %Rs for magnesium and potassium.

B. Precision

1) Volatile Organic Compounds

- All QC samples were within the criteria limits.

2) Semivolatile Organic Compounds

- All QC samples were within the criteria limits.

3) Explosives

- All QC samples were within the criteria limits.

4) Polychlorinated Biphenyls

- All QC samples were within the criteria limits.

5) Metals

- The MS/MSD pair for SDG-0410181 and 0410196 had high RPDs for aluminum, antimony, calcium, iron, magnesium, manganese, and potassium.
- Beryllium, cadmium, copper, and potassium had serial dilution results outside QC criteria limits for SDG-0410181 and 0410196.

C. Laboratory Contamination

1) Volatile Organic Compounds

- No contamination was found in any of the associated blanks.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated blanks.

3) Explosives

- No contamination was found in any of the associated blanks.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated blanks.

5) Metals

- One continuing calibration blank in SDG-0411099 had a low %R for calcium.

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a QA/QC data comparison was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
Soil	All	> 5x difference when one result is <DL	>10x difference when one result is <DL
Soil	All	>3x difference when one result is <RL	>5x difference when one result is <RL
Soil	VOCs only	> 5x difference	> 10x difference
Soil	Metals only	> 2x difference	> 3x difference
Soil	All except VOCs and metals	> 4x difference	> 5x difference

Attachment III presents tables that show a side-by-side comparison of the analytical results of the QC and QA samples.

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Samples found in disagreement do not necessarily indicate an error has been made or inappropriate procedures used. Factors including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis can contribute to duplicate disagreement. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends or extreme non-conformances exist, associated data were evaluated carefully to determine their validity.

The results of the comparison between Primary Field QC and QA samples are presented below.

A. Volatile Organic Compounds

Sample PBOW-04-SO-AA2-SB-18(.5-1.5) had a major disagreement for methyl acetate between the QC and QA samples, as the QC sample result was reported not detected.

Samples PBOW-04-SO-AA2-SB-18(3-5), PBOW-04-SO-AA2-SB-21(8-10), and PBOW-04-SO-AA2-SB-23(3-5) had major disagreements for acetone between the QC and QA samples, as the QA sample results were reported as not detected.

Sample PBOW-04-SO-AA2-SB-19(3-5) had major disagreements for acetone and methyl acetate between the QC and QA samples, as the QA sample results were reported as not detected.

Sample PBOW-04-SD-AA2-SWSD-02 had major disagreements for acetone and methyl acetate between the QC and QA samples, as the QA sample results were reported as not detected.

B. Semivolatile Organic Compounds

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had major disagreements for benzo(a)pyrene, fluoranthene, and pyrene between the QC and QA samples, as the QC sample results were reported as not detected.

Sample PBOW-04-SD-AA2-SWSD-02 had major disagreements for 2-methylphenol(o-cresol), acenaphthylene, benzo(a)pyrene, benzoic acid, di-n-butlyphthalate, fluoranthene, n-nitro-di-n-propylamine, and phenol, between the QC and QA samples, as the QA sample results were reported as not detected.

C. Explosives

All explosive analytical results for QC and QA samples were reported as ND (not dectected). Detection level concentrations between the two labs were comparable. ASC, which analyzed the QC samples, was able to achieve detection level concentrations from 0.085 to 0.170 mg/kg. ELAB, which analyzed the QA samples, was able to achieve detection level concentrations of 0.0268 to 0.1 mg/kg.

D. Polychlorinated Biphenyls

The detected PCB compounds in the QC and QA results for samples PBOW-04-SO-AA2-SB-16(3-5), PBOW-04-SO-AA2-SB-17(.5-1.5), PBOW-04-SO-AA2-SB-18(.5-1.5), PBOW-04-SO-AA2-SB-19(3-5) were in major disagreement from the corresponding QA sample results, as the QA results showed non detects.

For sample PBOW-04-SO-AA2-SB-23(3-5) the analytical results for the QC and corresponding QA samples were in major disagreement as the QC results were reported as not detected. The QA result for PCB 1260 for this sample was reported as 19 µg/kg.

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had a disagreement with PCB 1260 results between the QC and QA samples as the detected concentrations were reported at 579 J and 3900 µg/kg, respectively.

E. Metals

Sample PBOW-04-SO-AA2-SB-16(3-5) had major disagreements for manganese and sodium, and a minor disagreement for thallium between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had major disagreements for aluminum, barium, calcium, chromium, cobalt, iron, magnesium, nickel, sodium, vanadium, and zinc, and minor disagreements for beryllium, copper, lead, and potassium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-18(.5-1.5) had a major disagreement for sodium and a minor disagreement for thallium between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-19(3-5) had major disagreements for cobalt, manganese, and sodium, and minor disagreements for aluminum, arsenic, barium, chromium, copper, iron, magnesium, nickel, potassium, and vanadium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-21(8-10) had a major disagreement for sodium and minor disagreements for arsenic, manganese, and potassium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-23(3-5) had major disagreements for calcium and sodium, and a minor disagreement for potassium, between the QC and QA samples.

Sample PBOW-04-SD-AA2-SWSD-02 had a major disagreement for sodium between the QC and QA samples, as sodium was not detected in the QA sample.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. QC results were unreliable in some cases due to high analyte content that resulted in matrix interference. All of the results were considered usable as no results were rejected due to laboratory error, and where appropriate. Qualifiers were added to specific data results to indicate estimated concentrations when QC data results are not within specific criteria limitations.

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. No results were found to unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

ATTACHMENT 1 – SAMPLE CORRELATION

Primary Field Sample ID	Primary Lab Sample ID	QA Field Sample ID	QA Lab Sample ID	Sample Date and Time	Requested Analyses
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01A	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	8260B VOCs
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01B	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01C	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	6010B/7471A Metals
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05A	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	8260B VOCs
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05B	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05C	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	6010B/7471A Metals
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10A	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	8260B VOCs
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10B	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10C	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	6010B/7471A Metals
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13A	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	8260B VOCs
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13B	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13C	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	6010B/7471A Metals
PBOW-04-SD-AA2-SWSD-02-A	0410348-02A	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	8260B VOCs
PBOW-04-SD-AA2-SWSD-02-A	0410348-02B	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	Percent Moisture
PBOW-04-SD-AA2-SWSD-02-A	0410348-02C	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros, 6010B/7471A Metals
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02A	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	8260B VOCs
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02B	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	Percent Moisture
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02C	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02D	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	6010B/7471A Metals
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07A	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	8260B VOCs
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07B	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	Percent Moisture
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07C	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07D	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	6010B/7471A Metals
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05A	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	8260B VOCs
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05B	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	Percent Moisture
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05C	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05D	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	6010B/7471A Metals

ATTACHMENT II – QA DATA SUMMARIES

VOLATILE ORGANIC COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - VOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	0.91	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Hexanone	ND	U	2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Acetone	28	J	7.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Benzene	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromoform	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromomethane	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.61	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.2	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroform	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloromethane	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Cyclohexane	ND	U	0.81	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Ethylbenzene	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.91	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylcyclohexane	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylene Chloride	ND	U	6.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Styrene	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Toluene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Xylenes, Total	ND	U	0.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,1-Trichloroethane	ND	U	0.84	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2-Trichloroethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1-Dichloroethane	ND	U	1	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1-Dichloroethene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2,4-Trichlorobenzene	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dibromoethane (EDB)	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichloroethane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichloropropane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,3-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,4-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	2-Butanone (MEK)	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	2-Hexanone	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Acetone	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Benzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromochloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromodichloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromoform	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromomethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Carbon Disulfide	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Carbon tetrachloride	ND	U	0.74	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloroethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloroform	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	cis-1,2-Dichloroethene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	cis-1,3-Dichloropropene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Cyclohexane	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Dibromochloromethane	ND	U	1	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Dichlorodifluoromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Ethylbenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methyl Acetate	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methylcyclohexane	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methylene Chloride	ND	U	3.2	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Styrene	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Tetrachloroethene (PCE)	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Toluene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	trans-1,2-Dichloroethene	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	trans-1,3-Dichloropropene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Trichloroethene (TCE)	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Trichlorofluoromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Vinyl chloride	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Xylenes, Total	ND	U	0.95	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,1-Trichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2-Trichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1-Dichloroethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichlorobenzene	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichloropropane	ND	U	0.36	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,3-Dichlorobenzene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,4-Dichlorobenzene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	2-Butanone (MEK)	22	J	4.8	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	2-Hexanone	ND	U	2.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Acetone	170		8.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Benzene	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromochloromethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromodichloromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromoform	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromomethane	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Carbon Disulfide	ND	U	0.72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Carbon tetrachloride	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chlorobenzene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloroethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloroform	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloromethane	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	cis-1,2-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	cis-1,3-Dichloropropene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Cyclohexane	ND	U	0.95	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Dibromochloromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Dichlorodifluoromethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Ethylbenzene	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methyl Acetate	23		1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methylcyclohexane	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methylene Chloride	ND	U	7.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Styrene	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.6	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Tetrachloroethene (PCE)	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Toluene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	trans-1,2-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	trans-1,3-Dichloropropene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Trichloroethene (TCE)	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Trichlorofluoromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Vinyl chloride	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Xylenes, Total	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	5.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Hexanone	ND	U	2.7	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Acetone	ND	U	9.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Benzene	7.2		1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.54	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromoform	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromomethane	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.81	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroform	ND	U	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloromethane	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Cyclohexane	13		1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Ethylbenzene	3.5	J	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methyl Acetate	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylcyclohexane	19		0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylene Chloride	ND	U	8.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Styrene	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Toluene	16		0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Xylenes, Total	8.4		0.67	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.78	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Hexanone	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Acetone	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Benzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromoform	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromomethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.68	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroform	ND	U	0.98	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Cyclohexane	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Ethylbenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylcyclohexane	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylene Chloride	ND	U	2.9	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Styrene	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Toluene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Xylenes, Total	ND	U	0.88	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,1-Trichloroethane	ND	U	0.78	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2,2-Tetrachloroethane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2-Trichloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1-Dichloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1-Dichloroethene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2,3-Trichlorobenzene	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2,4-Trichlorobenzene	ND	U	1.9	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichloroethane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichloropropane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,3-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,4-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	2-Butanone (MEK)	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	2-Hexanone	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Acetone	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Benzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromochloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromodichloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromoform	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromomethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Carbon Disulfide	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Carbon tetrachloride	ND	U	0.68	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloroform	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	cis-1,2-Dichloroethene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	cis-1,3-Dichloropropene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Cyclohexane	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Dibromochloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Dichlorodifluoromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Ethylbenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Isopropylbenzene (Cumene)	ND	U	0.48	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methyl Acetate	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methylcyclohexane	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methylene Chloride	ND	U	2.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Styrene	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Tetrachloroethene (PCE)	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Toluene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	trans-1,2-Dichloroethene	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	trans-1,3-Dichloropropene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Trichloroethene (TCE)	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Trichlorofluoromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Vinyl chloride	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Xylenes, Total	ND	U	0.87	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.82	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	10	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Hexanone	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Acetone	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Benzene	2.6	J	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromochloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromodichloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromoform	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromomethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon Disulfide	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.71	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroform	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Cyclohexane	6.1		0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dibromochloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Ethylbenzene	3.2	J	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylcyclohexane	7.8		0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylene Chloride	ND	U	3	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Styrene	ND	U	0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Toluene	10		1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	2	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Vinyl chloride	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Xylenes, Total	7.1		0.92	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,1-Trichloroethane	ND	U	1.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2,2-Tetrachloroethane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2-Trichloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1-Dichloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1-Dichloroethene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2,3-Trichlorobenzene	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2,4-Trichlorobenzene	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dibromo-3-chloropropane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dibromoethane (EDB)	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichloroethane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichloropropane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,3-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,4-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	2-Butanone (MEK)	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	2-Hexanone	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Acetone	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Benzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromochloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromodichloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromoform	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromomethane	ND	U	1.6	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Carbon Disulfide	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Carbon tetrachloride	ND	U	1.2	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloroform	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	cis-1,2-Dichloroethene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	cis-1,3-Dichloropropene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Cyclohexane	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Dibromochloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Dichlorodifluoromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Ethylbenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Isopropylbenzene (Cumene)	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methyl Acetate	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methylcyclohexane	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methylene Chloride	ND	U	5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Styrene	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Tetrachloroethene (PCE)	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Toluene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	trans-1,2-Dichloroethene	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	trans-1,3-Dichloropropene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Trichloroethene (TCE)	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Trichlorofluoromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Vinyl chloride	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Xylenes, Total	ND	U	1.5	ug/Kg

SEMIVOLATILE ORGANIC COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - SVOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	970	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	77	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthene	ND	U	73	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthylene	ND	U	71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Anthracene	ND	U	58	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	49	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	40	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	57	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Carbazole	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Chrysene	ND	U	52	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	63	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluoranthene	ND	U	55	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluorene	ND	U	72	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	49	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Isophorone	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Naphthalene	ND	U	73	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenanthrene	ND	U	58	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pyrene	ND	U	41	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dinitrophenol	ND	U	960	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Anthracene	ND	U	57	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(a)pyrene	46	J	44	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(b)fluoranthene	70	J	39	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Carbazole	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Chrysene	54	J	52	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Fluoranthene	76	J	54	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Fluorene	ND	U	71	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Isophorone	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Naphthalene	ND	U	72	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Phenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Pyrene	71	J	40	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dinitrophenol	ND	U	920	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	73	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Acenaphthene	ND	U	69	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Acenaphthylene	ND	U	67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Anthracene	ND	U	55	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(a)anthracene	ND	U	46	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(a)pyrene	ND	U	42	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(b)fluoranthene	ND	U	37	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(g,h,i)perylene	ND	U	54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(k)fluoranthene	ND	U	65	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Carbazole	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Chrysene	ND	U	50	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dibenz(a,h)anthracene	ND	U	59	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Fluoranthene	ND	U	52	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Fluorene	ND	U	68	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	46	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Isophorone	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Naphthalene	ND	U	69	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Nitrobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Phenanthrene	ND	U	55	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Phenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Pyrene	ND	U	38	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	960	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Anthracene	ND	U	57	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	39	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Carbazole	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Chrysene	ND	U	52	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluoranthene	ND	U	54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluorene	ND	U	71	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Isophorone	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Naphthalene	ND	U	72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pyrene	ND	U	40	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	990	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitrophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Methylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	79	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitrophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthene	ND	U	75	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthylene	ND	U	72	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Anthracene	ND	U	59	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	50	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	45	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	40	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	58	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	70	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzoic acid	ND	UJ	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl alcohol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Carbazole	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Chrysene	ND	U	53	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	64	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenzofuran	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Diethylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dimethylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluoranthene	ND	U	56	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluorene	ND	U	74	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachloroethane	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	50	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Isophorone	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Naphthalene	ND	U	75	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Nitrobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pentachlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenanthrene	ND	U	59	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pyrene	ND	U	42	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dinitrophenol	ND	U	950	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Nitrophenol	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Anthracene	ND	U	57	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(b)fluoranthene	ND	U	39	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Carbazole	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Chrysene	ND	U	52	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Fluoranthene	ND	U	54	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Fluorene	ND	U	71	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachloroethane	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Isophorone	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Naphthalene	ND	U	72	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Phenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Pyrene	ND	U	40	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	1000	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitrophenol	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Methylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	80	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitrophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthene	ND	U	76	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthylene	ND	U	74	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Anthracene	ND	U	60	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	46	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	41	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	59	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	71	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzoic acid	ND	UJ	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl alcohol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Carbazole	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Chrysene	ND	U	54	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	65	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenzofuran	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Diethylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dimethylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluoranthene	ND	U	57	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluorene	ND	U	75	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachloroethane	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Isophorone	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Naphthalene	ND	U	76	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Nitrobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pentachlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenanthrene	ND	U	60	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pyrene	ND	U	42	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2,4-Trichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2-Diphenylhydrazine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,3-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,4-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4,5-Trichlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4,6-Trichlorophenol	ND	U	370	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dichlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dimethylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dinitrophenol	ND	U	2300	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dinitrotoluene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,6-Dinitrotoluene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Chloronaphthalene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Chlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Methylnaphthalene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Methylphenol (o-Cresol)	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Nitrophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3,3'-Dichlorobenzidine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3-Methylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4,6-Dinitro-2-methylphenol	ND	U	180	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Bromophenyl phenyl ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chloro-3-methylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chloroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chlorophenyl phenyl ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Methylphenol (p-Cresol)	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Nitrophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Acenaphthene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Acenaphthylene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Anthracene	ND	U	140	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(a)anthracene	120	J	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(a)pyrene	ND	U	100	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(b)fluoranthene	160	J	94	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(g,h,i)perylene	ND	U	130	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(k)fluoranthene	170	J	160	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzoic acid	ND	UJ	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzyl alcohol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzyl butyl phthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroethoxy)methane	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroethyl)ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroisopropyl)ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Carbazole	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Chrysene	140	J	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dibenz(a,h)anthracene	ND	U	150	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dibenzofuran	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Diethylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dimethylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Di-n-butylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Di-n-octylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Fluoranthene	ND	U	130	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Fluorene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorobutadiene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorocyclopentadiene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachloroethane	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Isophorone	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Naphthalene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Nitrobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitrosodimethylamine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitroso-di-n-propylamine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitrosodiphenylamine	ND	U	370	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Pentachlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Phenanthrene	ND	U	140	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Phenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Pyrene	180	J	96	ug/Kg

EXPLOSIVE COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - Explosives
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	110	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	HMX	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	Nitrobenzene	ND	U	100	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	RDX	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	Tetryl	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	1,3,5-Trinitrobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	1,3-Dinitrobenzene	ND	U	110	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,4,6-Trinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	3-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	4-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	HMX	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	Nitrobenzene	ND	U	100	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	RDX	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	Tetryl	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	HMX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	RDX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	Tetryl	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	HMX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	RDX	ND	U	170	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	Tetryl	ND	U	170	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	92	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	HMX	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	Nitrobenzene	ND	U	85	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	RDX	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	Tetryl	ND	U	130	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	1,3,5-Trinitrobenzene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	1,3-Dinitrobenzene	ND	U	100	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,4,6-Trinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,4-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	3-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	4-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	HMX	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	Nitrobenzene	ND	U	92	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	RDX	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	Tetryl	ND	U	140	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	HMX	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	RDX	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	Tetryl	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	HMX	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	RDX	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	Tetryl	ND	U	170	ug/Kg

PCBs

Quality Assurance Results
Soil/Sediment Samples - PCBs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	93		9.4	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1260 (Aroclor 1260)	6100		9.5	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1260 (Aroclor 1260)	27		8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.9	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	ND	U	9.9	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	110		10	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1260 (Aroclor 1260)	ND	U	9.6	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	19		9.7	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1016 (Aroclor 1016)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1221 (Aroclor 1221)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1232 (Aroclor 1232)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1242 (Aroclor 1242)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1248 (Aroclor 1248)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1254 (Aroclor 1254)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1260 (Aroclor 1260)	3900		120	ug/Kg

METALS

Quality Assurance Results
Soil/Sediment Samples - Metals
Acid Areas, Plumbrook Ordnance Works Site, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Aluminum	13300		11.4	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Antimony	ND	U	1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Arsenic	12.4		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Barium	109		1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Beryllium	0.76	J	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cadmium	0.72	J	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Calcium	14800		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Chromium	19.2		0.46	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cobalt	15.1		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Copper	19.5		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Iron	25700		6.8	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Lead	13.2		0.34	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Magnesium	4320		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Manganese	2400		1.4	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Nickel	48.4		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Potassium	1810		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Selenium	ND	U	0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Silver	ND	U	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Sodium	ND	U	114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Thallium	ND	U	0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Vanadium	27.2		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Zinc	64		1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW7471	Mercury (total)	0.024	J	0.013	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Aluminum	15900		11	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Antimony	ND	U	2.2	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Arsenic	9.3		0.66	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Barium	89.3		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Beryllium	0.81	J	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Cadmium	0.25	J	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Calcium	7390		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Chromium	21.4		0.44	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Cobalt	10.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Copper	20.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Iron	26500		6.6	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Lead	20.5		0.33	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Magnesium	4420		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Manganese	624		0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Nickel	25.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Potassium	1580		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Selenium	ND	U	0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Silver	ND	U	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Sodium	ND	U	220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Thallium	ND	U	0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Vanadium	35.4		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Zinc	69		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW7471	Mercury (total)	0.032	J	0.015	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW7471	Mercury (total)	0.0302	J	0.0152	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Aluminum	5990		10.7	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Antimony	ND	U	1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Arsenic	5.7		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Barium	20.6		1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Beryllium	0.39	J	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Cadmium	ND	U	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Calcium	1100		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Chromium	8.7		0.43	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Cobalt	6		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Copper	7.8		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Iron	12500		6.4	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Lead	7.7		0.32	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Magnesium	970		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Manganese	403		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Nickel	11.3		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Potassium	444		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Selenium	ND	U	0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Silver	ND	U	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Sodium	ND	U	107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Thallium	ND	U	0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Vanadium	17.5		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Zinc	25.1		1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW7471	Mercury (total)	0.02	J	0.015	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Aluminum	10200		12.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Antimony	ND	U	1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Arsenic	7.7		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Barium	59.7		1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Beryllium	0.56	J	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cadmium	0.26	J	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Calcium	50000		608	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Chromium	15.5		0.49	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cobalt	8.5		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Copper	19.5		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Iron	19000		7.3	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Lead	11.9		0.37	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Magnesium	20600		122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Manganese	423		0.73	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Nickel	24.4		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Potassium	1880		122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Selenium	ND	U	0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Silver	ND	U	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Sodium	140	J	122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Thallium	ND	U	0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Vanadium	24.1		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Zinc	46.2		1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW7471	Mercury (total)	ND	U	0.017	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Aluminum	20900		11.2	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Antimony	ND	U	2.2	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Arsenic	13.2		0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Barium	125		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Beryllium	1.2		0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cadmium	0.43	J	0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Calcium	6140		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Chromium	31.4		0.45	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cobalt	15.3		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Copper	39.6		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Iron	42100		6.7	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Lead	24.2		0.33	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Magnesium	5770		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Manganese	944		0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Nickel	45.3		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Potassium	2680		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Selenium	ND	U	0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Silver	ND	U	0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Sodium	ND	U	223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Thallium	ND	U	0.67	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Vanadium	49		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Zinc	98.7		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW7471	Mercury (total)	0.029	J	0.015	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Aluminum	14700		11.4	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Antimony	ND	U	2.3	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Arsenic	19.3		0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Barium	106		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Beryllium	0.84	J	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Cadmium	0.36	J	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Calcium	41100		456	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Chromium	22		0.46	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Cobalt	12.7		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Copper	28.5		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Iron	32900		6.8	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Lead	13.7		0.34	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Magnesium	15000		228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Manganese	962		0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Nickel	39.2		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Potassium	2560		228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Selenium	ND	U	0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Silver	ND	U	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Sodium	ND	U	228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Thallium	ND	U	0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Vanadium	34.4		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Zinc	74.7		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW7471	Mercury (total)	ND	U	0.016	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Aluminum	12000		11.8	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Antimony	ND	U	2.4	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Arsenic	11.7		0.71	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Barium	67.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Beryllium	0.64	J	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cadmium	0.36	J	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Calcium	66700		1180	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Chromium	18.4		0.47	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cobalt	10.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Copper	20.6		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Iron	25900		7.1	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Lead	12.6		0.36	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Magnesium	18500		237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Manganese	831		0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Nickel	27.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Potassium	1700		237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Selenium	ND	U	0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Silver	ND	U	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Sodium	ND	U	237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Thallium	ND	U	0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Vanadium	30.5		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Zinc	54.7		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW7471	Mercury (total)	ND	U	0.013	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Aluminum	9300		14	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Antimony	1.5	J	1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Arsenic	3.9		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Barium	62.3		1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Beryllium	0.56	J	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Cadmium	0.58	J	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Calcium	6860		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Chromium	14.2		0.56	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Cobalt	5.6		0.84	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Copper	21.4		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Iron	15000		8.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Lead	191		0.42	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Magnesium	2660		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Manganese	162		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Nickel	17.9		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Potassium	1240		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Selenium	1.2	J	0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Silver	ND	U	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Sodium	ND	U	140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Thallium	ND	U	0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Vanadium	20.8		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Zinc	69.6		1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW7471	Mercury (total)	0.078		0.019	mg/Kg

ATTACHMENT III – QA/QC DATA COMPARISON

VOLATILE ORGANIC COMPOUNDS

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, VOCs,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.2	ug/Kg	ND U	1.27	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.4	ug/Kg	ND U	0.544	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.2	ug/Kg	ND U	0.676	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1-Dichloroethane	ND U	0.3	ug/Kg	ND U	0.74	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1-Dichloroethene	ND U	0.71	ug/Kg	ND U	1.53	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	0.5	ug/Kg	ND U	1.03	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	0.91	ug/Kg	ND U	1.47	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.5	ug/Kg	ND U	0.568	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.3	ug/Kg	ND U	0.902	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichloroethane	ND U	0.2	ug/Kg	ND U	0.657	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichloropropane	ND U	0.3	ug/Kg	ND U	0.285	ug/Kg
SB16	28-Oct-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.2	ug/Kg	ND U	0.994	ug/Kg
SB16	28-Oct-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.4	ug/Kg	ND U	0.908	ug/Kg
SB16	28-Oct-04	3	SW8260	2-Hexanone	ND U	2	ug/Kg	ND U	0.821	ug/Kg
SB16	28-Oct-04	3	SW8260	Acetone	28 J	7.1	ug/Kg	44.4	1.52	ug/Kg
SB16	28-Oct-04	3	SW8260	Benzene	ND U	1	ug/Kg	ND U	0.798	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromodichloromethane	ND U	0.3	ug/Kg	ND U	0.835	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromoform	ND U	0.3	ug/Kg	ND U	0.921	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromomethane	ND U	0.5	ug/Kg	ND U	1.31	ug/Kg
SB16	28-Oct-04	3	SW8260	Carbon Disulfide	ND U	0.61	ug/Kg	ND U	1.3	ug/Kg
SB16	28-Oct-04	3	SW8260	Carbon tetrachloride	ND U	0.2	ug/Kg	ND U	1.16	ug/Kg
SB16	28-Oct-04	3	SW8260	Chlorobenzene	ND U	0.2	ug/Kg	ND U	0.912	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloroethane	ND U	0.3	ug/Kg	ND U	1.44	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.305	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloromethane	ND U	0.71	ug/Kg	ND U	1.31	ug/Kg
SB16	28-Oct-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.71	ug/Kg	ND U	0.801	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.2	ug/Kg	ND U	0.912	ug/Kg
SB16	28-Oct-04	3	SW8260	Cyclohexane	ND U	0.81	ug/Kg	ND U	1.5	ug/Kg
SB16	28-Oct-04	3	SW8260	Dibromochloromethane	ND U	0.3	ug/Kg	ND U	1.08	ug/Kg
SB16	28-Oct-04	3	SW8260	Dichlorodifluoromethane	ND U	0.4	ug/Kg	ND U	1.62	ug/Kg
SB16	28-Oct-04	3	SW8260	Ethylbenzene	ND U	1	ug/Kg	ND U	0.607	ug/Kg
SB16	28-Oct-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.1	ug/Kg	ND U	1.24	ug/Kg
SB16	28-Oct-04	3	SW8260	Methyl Acetate	ND U	0.91	ug/Kg	ND U	3.18	ug/Kg
SB16	28-Oct-04	3	SW8260	Methylcyclohexane	ND U	0.1	ug/Kg	ND U	0.702	ug/Kg
SB16	28-Oct-04	3	SW8260	Methylene Chloride	ND U	6.1	ug/Kg	ND U	0.897	ug/Kg
SB16	28-Oct-04	3	SW8260	Styrene	ND U	0.5	ug/Kg	ND U	0.834	ug/Kg
SB16	28-Oct-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.5	ug/Kg	ND U	0.851	ug/Kg
SB16	28-Oct-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.3	ug/Kg	ND U	1.36	ug/Kg
SB16	28-Oct-04	3	SW8260	Toluene	ND U	0.2	ug/Kg	ND U	0.716	ug/Kg
SB16	28-Oct-04	3	SW8260	trans-1,2-Dichloroethene	ND U	0.71	ug/Kg	ND U	1.17	ug/Kg
SB16	28-Oct-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.4	ug/Kg	ND U	0.688	ug/Kg
SB16	28-Oct-04	3	SW8260	Trichloroethene (TCE)	ND U	0.2	ug/Kg	ND U	1.19	ug/Kg
SB16	28-Oct-04	3	SW8260	Trichlorofluoromethane	ND U	0.3	ug/Kg	ND U	0.4	ug/Kg
SB16	28-Oct-04	3	SW8260	Vinyl chloride	ND U	0.4	ug/Kg	ND U	1.3	ug/Kg
SB16	28-Oct-04	3	SW8260	Xylenes, Total	ND U	0.5	ug/Kg	ND U	1.02	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,1-Trichloroethane	ND U	0.84	ug/Kg	ND U	1.34	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,2,2-Tetrachloroethane	ND U	2.1	ug/Kg	ND U	0.576	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,2-Trichloroethane	ND U	1	ug/Kg	ND U	0.715	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1-Dichloroethane	ND U	1	ug/Kg	ND U	0.783	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1-Dichloroethene	ND U	1	ug/Kg	ND U	1.62	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2,4-Trichlorobenzene	ND U	2.1	ug/Kg	ND U	1.09	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dibromo-3-chloropropane	ND U	2.1	ug/Kg	ND U	1.55	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dibromoethane (EDB)	ND U	1	ug/Kg	ND U	0.601	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dichlorobenzene	ND U	1	ug/Kg	ND U	0.954	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dichloroethane	ND U	2.1	ug/Kg	ND U	0.694	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8260	1,2-Dichloropropane	ND U	1	ug/Kg	ND U	0.301	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,3-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.05	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,4-Dichlorobenzene	ND U	1	ug/Kg	ND U	0.961	ug/Kg
SB17	09-Nov-04	0.5	SW8260	2-Hexanone	ND U	10	ug/Kg	ND U	0.868	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Acetone	ND U	10	ug/Kg	129	1.61	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Benzene	ND U	1	ug/Kg	ND U	0.844	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromodichloromethane	ND U	1	ug/Kg	ND U	0.883	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromoform	ND U	2.1	ug/Kg	ND U	0.974	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromomethane	ND U	1	ug/Kg	ND U	1.39	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Carbon Disulfide	ND U	1	ug/Kg	ND U	1.38	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Carbon tetrachloride	ND U	0.74	ug/Kg	ND U	1.22	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chlorobenzene	ND U	1	ug/Kg	ND U	0.964	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloroethane	ND U	1	ug/Kg	ND U	1.52	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.322	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloromethane	ND U	1	ug/Kg	ND U	1.39	ug/Kg
SB17	09-Nov-04	0.5	SW8260	cis-1,2-Dichloroethene	ND U	1	ug/Kg	ND U	0.847	ug/Kg
SB17	09-Nov-04	0.5	SW8260	cis-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.964	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Cyclohexane	ND U	0.95	ug/Kg	ND U	1.59	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Dibromochloromethane	ND U	1	ug/Kg	ND U	1.14	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Dichlorodifluoromethane	ND U	1	ug/Kg	ND U	1.72	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Ethylbenzene	ND U	1	ug/Kg	ND U	0.642	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Isopropylbenzene (Cumene)	ND U	0.53	ug/Kg	ND U	1.31	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methyl Acetate	ND U	0.53	ug/Kg	ND U	3.37	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methylcyclohexane	ND U	0.53	ug/Kg	1.6 J	0.743	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methylene Chloride	ND U	3.2	ug/Kg	ND U	0.949	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Styrene	ND U	0.95	ug/Kg	ND U	0.881	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2.1	ug/Kg	ND U	0.9	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Tetrachloroethene (PCE)	ND U	0.95	ug/Kg	ND U	1.44	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Toluene	ND U	1	ug/Kg	1.61 J	0.757	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8260	trans-1,2-Dichloroethene	ND U	2.1	ug/Kg	ND U	1.23	ug/Kg
SB17	09-Nov-04	0.5	SW8260	trans-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.727	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Trichloroethene (TCE)	ND U	1	ug/Kg	ND U	1.26	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Trichlorofluoromethane	ND U	1	ug/Kg	ND U	0.423	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Vinyl chloride	ND U	1	ug/Kg	ND U	1.38	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Xylenes, Total	ND U	0.95	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,1-Trichloroethane	ND U	0.24	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.48	ug/Kg	ND U	0.65	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,2-Trichloroethane	ND U	0.24	ug/Kg	ND U	0.807	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1-Dichloroethane	ND U	0.36	ug/Kg	ND U	0.884	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1-Dichloroethene	ND U	0.84	ug/Kg	ND U	1.83	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2,4-Trichlorobenzene	ND U	0.6	ug/Kg	ND U	1.23	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.1	ug/Kg	ND U	1.75	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dibromoethane (EDB)	ND U	0.6	ug/Kg	ND U	0.678	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichlorobenzene	ND U	0.36	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichloroethane	ND U	0.24	ug/Kg	ND U	0.784	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichloropropane	ND U	0.36	ug/Kg	ND U	0.34	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,3-Dichlorobenzene	ND U	0.24	ug/Kg	ND U	1.19	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,4-Dichlorobenzene	ND U	0.48	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	2-Hexanone	ND U	2.4	ug/Kg	ND U	0.98	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Acetone	170	8.4	ug/Kg	150	1.82	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Benzene	ND U	1.2	ug/Kg	ND U	0.952	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromodichloromethane	ND U	0.36	ug/Kg	ND U	0.997	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromoform	ND U	0.36	ug/Kg	ND U	1.1	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromomethane	ND U	0.6	ug/Kg	ND U	1.57	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Carbon Disulfide	ND U	0.72	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Carbon tetrachloride	ND U	0.24	ug/Kg	ND U	1.38	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chlorobenzene	ND U	0.24	ug/Kg	ND U	1.09	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chloroethane	ND U	0.36	ug/Kg	ND U	1.72	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8260	Chloroform	ND U	1.2	ug/Kg	ND U	0.364	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chloromethane	ND U	0.84	ug/Kg	ND U	1.57	ug/Kg
SB18	28-Oct-04	0.5	SW8260	cis-1,2-Dichloroethene	ND U	0.84	ug/Kg	ND U	0.956	ug/Kg
SB18	28-Oct-04	0.5	SW8260	cis-1,3-Dichloropropene	ND U	0.24	ug/Kg	ND U	1.09	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Cyclohexane	ND U	0.95	ug/Kg	ND U	1.8	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Dibromochloromethane	ND U	0.36	ug/Kg	ND U	1.28	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Dichlorodifluoromethane	ND U	0.48	ug/Kg	ND U	1.94	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Ethylbenzene	ND U	1.2	ug/Kg	ND U	0.725	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Isopropylbenzene (Cumene)	ND U	0.12	ug/Kg	ND U	1.48	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methyl Acetate	23	1.1	ug/Kg	ND U	3.8	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methylcyclohexane	ND U	0.12	ug/Kg	ND U	0.838	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methylene Chloride	ND U	7.2	ug/Kg	ND U	1.07	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Styrene	ND U	0.6	ug/Kg	ND U	0.995	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.6	ug/Kg	ND U	1.02	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Tetrachloroethene (PCE)	ND U	0.36	ug/Kg	ND U	1.62	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Toluene	ND U	0.24	ug/Kg	ND U	0.854	ug/Kg
SB18	28-Oct-04	0.5	SW8260	trans-1,2-Dichloroethene	ND U	0.84	ug/Kg	ND U	1.39	ug/Kg
SB18	28-Oct-04	0.5	SW8260	trans-1,3-Dichloropropene	ND U	0.48	ug/Kg	ND U	0.821	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Trichloroethene (TCE)	ND U	0.24	ug/Kg	ND U	1.43	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Trichlorofluoromethane	ND U	0.36	ug/Kg	ND U	0.478	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Vinyl chloride	ND U	0.48	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Xylenes, Total	ND U	0.6	ug/Kg	ND U	1.22	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.27	ug/Kg	ND U	1.46	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.54	ug/Kg	ND U	0.626	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.27	ug/Kg	ND U	0.777	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1-Dichloroethane	ND U	0.4	ug/Kg	ND U	0.852	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1-Dichloroethene	ND U	0.94	ug/Kg	ND U	1.76	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	0.67	ug/Kg	ND U	1.18	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.2	ug/Kg	ND U	1.69	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.67	ug/Kg	ND U	0.653	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.4	ug/Kg	ND U	1.04	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichloroethane	ND U	0.27	ug/Kg	ND U	0.755	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichloropropane	ND U	0.4	ug/Kg	ND U	0.327	ug/Kg
SB18	28-Oct-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.27	ug/Kg	ND U	1.14	ug/Kg
SB18	28-Oct-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.54	ug/Kg	ND U	1.04	ug/Kg
SB18	28-Oct-04	3	SW8260	2-Hexanone	ND U	2.7	ug/Kg	ND U	0.944	ug/Kg
SB18	28-Oct-04	3	SW8260	Acetone	ND U	9.4	ug/Kg	13	1.75	ug/Kg
SB18	28-Oct-04	3	SW8260	Benzene	7.2	1.3	ug/Kg	5.99	0.918	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromodichloromethane	ND U	0.4	ug/Kg	ND U	0.961	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromoform	ND U	0.4	ug/Kg	ND U	1.06	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromomethane	ND U	0.67	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	3	SW8260	Carbon Disulfide	ND U	0.81	ug/Kg	ND U	1.5	ug/Kg
SB18	28-Oct-04	3	SW8260	Carbon tetrachloride	ND U	0.27	ug/Kg	ND U	1.33	ug/Kg
SB18	28-Oct-04	3	SW8260	Chlorobenzene	ND U	0.27	ug/Kg	ND U	1.05	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloroethane	ND U	0.4	ug/Kg	ND U	1.66	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloroform	ND U	1.3	ug/Kg	ND U	0.35	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloromethane	ND U	0.94	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.94	ug/Kg	ND U	0.921	ug/Kg
SB18	28-Oct-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.27	ug/Kg	ND U	1.05	ug/Kg
SB18	28-Oct-04	3	SW8260	Cyclohexane	13	1.1	ug/Kg	9.21	1.73	ug/Kg
SB18	28-Oct-04	3	SW8260	Dibromochloromethane	ND U	0.4	ug/Kg	ND U	1.24	ug/Kg
SB18	28-Oct-04	3	SW8260	Dichlorodifluoromethane	ND U	0.54	ug/Kg	ND U	1.87	ug/Kg
SB18	28-Oct-04	3	SW8260	Ethylbenzene	3.5 J	1.3	ug/Kg	3.18 J	0.698	ug/Kg
SB18	28-Oct-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.13	ug/Kg	ND U	1.43	ug/Kg
SB18	28-Oct-04	3	SW8260	Methyl Acetate	ND U	1.2	ug/Kg	ND U	3.66	ug/Kg
SB18	28-Oct-04	3	SW8260	Methylcyclohexane	19	0.13	ug/Kg	12.3	0.807	ug/Kg
SB18	28-Oct-04	3	SW8260	Methylene Chloride	ND U	8.1	ug/Kg	ND U	1.03	ug/Kg
SB18	28-Oct-04	3	SW8260	Styrene	ND U	0.67	ug/Kg	ND U	0.958	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.67	ug/Kg	ND U	0.978	ug/Kg
SB18	28-Oct-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.4	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	3	SW8260	Toluene	16	0.27	ug/Kg	13.2	0.823	ug/Kg
SB18	28-Oct-04	3	SW8260	trans-1,2-Dichloroethene	ND U	0.94	ug/Kg	ND U	1.34	ug/Kg
SB18	28-Oct-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.54	ug/Kg	ND U	0.791	ug/Kg
SB18	28-Oct-04	3	SW8260	Trichloroethene (TCE)	ND U	0.27	ug/Kg	ND U	1.37	ug/Kg
SB18	28-Oct-04	3	SW8260	Trichlorofluoromethane	ND U	0.4	ug/Kg	ND U	0.46	ug/Kg
SB18	28-Oct-04	3	SW8260	Vinyl chloride	ND U	0.54	ug/Kg	ND U	1.5	ug/Kg
SB18	28-Oct-04	3	SW8260	Xylenes, Total	8.4	0.67	ug/Kg	10.4	1.17	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.78	ug/Kg	ND U	1.39	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	2	ug/Kg	ND U	0.598	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.98	ug/Kg	ND U	0.742	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1-Dichloroethane	ND U	0.98	ug/Kg	ND U	0.813	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1-Dichloroethene	ND U	0.98	ug/Kg	ND U	1.68	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	2	ug/Kg	ND U	1.13	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	2	ug/Kg	ND U	1.61	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.98	ug/Kg	ND U	0.624	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	0.991	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichloroethane	ND U	2	ug/Kg	ND U	0.721	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichloropropane	ND U	0.98	ug/Kg	ND U	0.312	ug/Kg
SB19	09-Nov-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	1.09	ug/Kg
SB19	09-Nov-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	0.998	ug/Kg
SB19	09-Nov-04	3	SW8260	2-Hexanone	ND U	9.8	ug/Kg	ND U	0.901	ug/Kg
SB19	09-Nov-04	3	SW8260	Acetone	ND U	9.8	ug/Kg	109	1.67	ug/Kg
SB19	09-Nov-04	3	SW8260	Benzene	ND U	0.98	ug/Kg	ND U	0.876	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromodichloromethane	ND U	0.98	ug/Kg	ND U	0.917	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromoform	ND U	2	ug/Kg	ND U	1.01	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromomethane	ND U	0.98	ug/Kg	ND U	1.44	ug/Kg
SB19	09-Nov-04	3	SW8260	Carbon Disulfide	ND U	0.98	ug/Kg	ND U	1.43	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8260	Carbon tetrachloride	ND U	0.68	ug/Kg	ND U	1.27	ug/Kg
SB19	09-Nov-04	3	SW8260	Chlorobenzene	ND U	0.98	ug/Kg	ND U	1	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloroethane	ND U	0.98	ug/Kg	ND U	1.58	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloroform	ND U	0.98	ug/Kg	ND U	0.335	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloromethane	ND U	0.98	ug/Kg	ND U	1.44	ug/Kg
SB19	09-Nov-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.98	ug/Kg	ND U	0.879	ug/Kg
SB19	09-Nov-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.98	ug/Kg	ND U	1	ug/Kg
SB19	09-Nov-04	3	SW8260	Cyclohexane	ND U	0.88	ug/Kg	ND U	1.65	ug/Kg
SB19	09-Nov-04	3	SW8260	Dibromochloromethane	ND U	0.98	ug/Kg	ND U	1.18	ug/Kg
SB19	09-Nov-04	3	SW8260	Dichlorodifluoromethane	ND U	0.98	ug/Kg	ND U	1.78	ug/Kg
SB19	09-Nov-04	3	SW8260	Ethylbenzene	ND U	0.98	ug/Kg	ND U	0.667	ug/Kg
SB19	09-Nov-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.49	ug/Kg	ND U	1.36	ug/Kg
SB19	09-Nov-04	3	SW8260	Methyl Acetate	ND U	0.49	ug/Kg	19.3	3.5	ug/Kg
SB19	09-Nov-04	3	SW8260	Methylcyclohexane	ND U	0.49	ug/Kg	ND U	0.771	ug/Kg
SB19	09-Nov-04	3	SW8260	Methylene Chloride	ND U	2.9	ug/Kg	ND U	0.986	ug/Kg
SB19	09-Nov-04	3	SW8260	Styrene	ND U	0.88	ug/Kg	ND U	0.915	ug/Kg
SB19	09-Nov-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2	ug/Kg	ND U	0.934	ug/Kg
SB19	09-Nov-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.88	ug/Kg	ND U	1.49	ug/Kg
SB19	09-Nov-04	3	SW8260	Toluene	ND U	0.98	ug/Kg	ND U	0.786	ug/Kg
SB19	09-Nov-04	3	SW8260	trans-1,2-Dichloroethene	ND U	2	ug/Kg	ND U	1.28	ug/Kg
SB19	09-Nov-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.98	ug/Kg	ND U	0.755	ug/Kg
SB19	09-Nov-04	3	SW8260	Trichloroethene (TCE)	ND U	0.98	ug/Kg	ND U	1.31	ug/Kg
SB19	09-Nov-04	3	SW8260	Trichlorofluoromethane	ND U	0.98	ug/Kg	ND U	0.44	ug/Kg
SB19	09-Nov-04	3	SW8260	Vinyl chloride	ND U	0.98	ug/Kg	ND U	1.43	ug/Kg
SB19	09-Nov-04	3	SW8260	Xylenes, Total	ND U	0.88	ug/Kg	ND U	1.12	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,1-Trichloroethane	ND U	0.78	ug/Kg	ND U	1.31	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,2,2-Tetrachloroethane	ND U	1.9	ug/Kg	ND U	0.562	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,2-Trichloroethane	ND U	0.97	ug/Kg	ND U	0.697	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1-Dichloroethane	ND U	0.97	ug/Kg	ND U	0.764	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8260	1,1-Dichloroethene	ND U	0.97	ug/Kg	ND U	1.58	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2,4-Trichlorobenzene	ND U	1.9	ug/Kg	ND U	1.06	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.9	ug/Kg	ND U	1.51	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dibromoethane (EDB)	ND U	0.97	ug/Kg	ND U	0.586	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	0.93	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichloroethane	ND U	1.9	ug/Kg	ND U	0.677	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichloropropane	ND U	0.97	ug/Kg	ND U	0.294	ug/Kg
SB21	09-Nov-04	8	SW8260	1,3-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	1.03	ug/Kg
SB21	09-Nov-04	8	SW8260	1,4-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	0.937	ug/Kg
SB21	09-Nov-04	8	SW8260	2-Hexanone	ND U	9.7	ug/Kg	ND U	0.847	ug/Kg
SB21	09-Nov-04	8	SW8260	Acetone	ND U	9.7	ug/Kg	29.2	1.57	ug/Kg
SB21	09-Nov-04	8	SW8260	Benzene	ND U	0.97	ug/Kg	ND U	0.823	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromodichloromethane	ND U	0.97	ug/Kg	ND U	0.862	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromoform	ND U	1.9	ug/Kg	ND U	0.95	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromomethane	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Carbon Disulfide	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Carbon tetrachloride	ND U	0.68	ug/Kg	ND U	1.19	ug/Kg
SB21	09-Nov-04	8	SW8260	Chlorobenzene	ND U	0.97	ug/Kg	ND U	0.941	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloroethane	ND U	0.97	ug/Kg	ND U	1.49	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloroform	ND U	0.97	ug/Kg	ND U	0.314	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloromethane	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	cis-1,2-Dichloroethene	ND U	0.97	ug/Kg	ND U	0.826	ug/Kg
SB21	09-Nov-04	8	SW8260	cis-1,3-Dichloropropene	ND U	0.97	ug/Kg	ND U	0.941	ug/Kg
SB21	09-Nov-04	8	SW8260	Cyclohexane	ND U	0.87	ug/Kg	ND U	1.55	ug/Kg
SB21	09-Nov-04	8	SW8260	Dibromochloromethane	ND U	0.97	ug/Kg	ND U	1.11	ug/Kg
SB21	09-Nov-04	8	SW8260	Dichlorodifluoromethane	ND U	0.97	ug/Kg	ND U	1.67	ug/Kg
SB21	09-Nov-04	8	SW8260	Ethylbenzene	ND U	0.97	ug/Kg	ND U	0.627	ug/Kg
SB21	09-Nov-04	8	SW8260	Isopropylbenzene (Cumene)	ND U	0.48	ug/Kg	ND U	1.28	ug/Kg
SB21	09-Nov-04	8	SW8260	Methyl Acetate	ND U	0.48	ug/Kg	ND U	3.28	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8260	Methylcyclohexane	ND U	0.48	ug/Kg	ND U	0.724	ug/Kg
SB21	09-Nov-04	8	SW8260	Methylene Chloride	ND U	2.9	ug/Kg	ND U	0.926	ug/Kg
SB21	09-Nov-04	8	SW8260	Styrene	ND U	0.87	ug/Kg	ND U	0.86	ug/Kg
SB21	09-Nov-04	8	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	1.9	ug/Kg	ND U	0.878	ug/Kg
SB21	09-Nov-04	8	SW8260	Tetrachloroethene (PCE)	ND U	0.87	ug/Kg	ND U	1.4	ug/Kg
SB21	09-Nov-04	8	SW8260	Toluene	ND U	0.97	ug/Kg	ND U	0.739	ug/Kg
SB21	09-Nov-04	8	SW8260	trans-1,2-Dichloroethene	ND U	1.9	ug/Kg	ND U	1.2	ug/Kg
SB21	09-Nov-04	8	SW8260	trans-1,3-Dichloropropene	ND U	0.97	ug/Kg	ND U	0.709	ug/Kg
SB21	09-Nov-04	8	SW8260	Trichloroethene (TCE)	ND U	0.97	ug/Kg	ND U	1.23	ug/Kg
SB21	09-Nov-04	8	SW8260	Trichlorofluoromethane	ND U	0.97	ug/Kg	ND U	0.413	ug/Kg
SB21	09-Nov-04	8	SW8260	Vinyl chloride	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Xylenes, Total	ND U	0.87	ug/Kg	ND U	1.05	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.82	ug/Kg	ND U	1.48	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	2	ug/Kg	ND U	0.637	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,2-Trichloroethane	ND U	1	ug/Kg	ND U	0.791	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1-Dichloroethane	ND U	1	ug/Kg	ND U	0.867	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1-Dichloroethene	ND U	1	ug/Kg	ND U	1.79	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	2	ug/Kg	ND U	1.21	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	2	ug/Kg	ND U	1.72	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	1	ug/Kg	ND U	0.665	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.06	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichloroethane	ND U	2	ug/Kg	ND U	0.769	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichloropropane	ND U	1	ug/Kg	ND U	0.333	ug/Kg
SB23	09-Nov-04	3	SW8260	1,3-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.16	ug/Kg
SB23	09-Nov-04	3	SW8260	1,4-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.06	ug/Kg
SB23	09-Nov-04	3	SW8260	2-Hexanone	ND U	10	ug/Kg	ND U	0.961	ug/Kg
SB23	09-Nov-04	3	SW8260	Acetone	ND U	10	ug/Kg	56.4	1.78	ug/Kg
SB23	09-Nov-04	3	SW8260	Benzene	2.6 J	1	ug/Kg	8.95	0.934	ug/Kg
SB23	09-Nov-04	3	SW8260	Bromodichloromethane	ND U	1	ug/Kg	ND U	0.978	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8260	Bromoform	ND U	2	ug/Kg	ND U	1.08	ug/Kg
SB23	09-Nov-04	3	SW8260	Bromomethane	ND U	1	ug/Kg	ND U	1.54	ug/Kg
SB23	09-Nov-04	3	SW8260	Carbon Disulfide	ND U	1	ug/Kg	ND U	1.53	ug/Kg
SB23	09-Nov-04	3	SW8260	Carbon tetrachloride	ND U	0.71	ug/Kg	ND U	1.36	ug/Kg
SB23	09-Nov-04	3	SW8260	Chlorobenzene	ND U	1	ug/Kg	ND U	1.07	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloroethane	ND U	1	ug/Kg	ND U	1.69	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.357	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloromethane	ND U	1	ug/Kg	ND U	1.54	ug/Kg
SB23	09-Nov-04	3	SW8260	cis-1,2-Dichloroethene	ND U	1	ug/Kg	ND U	0.937	ug/Kg
SB23	09-Nov-04	3	SW8260	cis-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	1.07	ug/Kg
SB23	09-Nov-04	3	SW8260	Cyclohexane	6.1	0.92	ug/Kg	10.6	1.76	ug/Kg
SB23	09-Nov-04	3	SW8260	Dibromochloromethane	ND U	1	ug/Kg	ND U	1.26	ug/Kg
SB23	09-Nov-04	3	SW8260	Dichlorodifluoromethane	ND U	1	ug/Kg	ND U	1.9	ug/Kg
SB23	09-Nov-04	3	SW8260	Ethylbenzene	3.2 J	1	ug/Kg	5.71	0.711	ug/Kg
SB23	09-Nov-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.51	ug/Kg	ND U	1.45	ug/Kg
SB23	09-Nov-04	3	SW8260	Methyl Acetate	ND U	0.51	ug/Kg	ND U	3.73	ug/Kg
SB23	09-Nov-04	3	SW8260	Methylcyclohexane	7.8	0.51	ug/Kg	10.9	0.822	ug/Kg
SB23	09-Nov-04	3	SW8260	Methylene Chloride	ND U	3	ug/Kg	ND U	1.05	ug/Kg
SB23	09-Nov-04	3	SW8260	Styrene	ND U	0.92	ug/Kg	ND U	0.976	ug/Kg
SB23	09-Nov-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2	ug/Kg	ND U	0.996	ug/Kg
SB23	09-Nov-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.92	ug/Kg	ND U	1.59	ug/Kg
SB23	09-Nov-04	3	SW8260	Toluene	10	1	ug/Kg	22.1	0.838	ug/Kg
SB23	09-Nov-04	3	SW8260	trans-1,2-Dichloroethene	ND U	2	ug/Kg	ND U	1.37	ug/Kg
SB23	09-Nov-04	3	SW8260	trans-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.805	ug/Kg
SB23	09-Nov-04	3	SW8260	Trichloroethene (TCE)	ND U	1	ug/Kg	ND U	1.4	ug/Kg
SB23	09-Nov-04	3	SW8260	Trichlorofluoromethane	ND U	1	ug/Kg	ND U	0.469	ug/Kg
SB23	09-Nov-04	3	SW8260	Vinyl chloride	ND U	1	ug/Kg	ND U	1.53	ug/Kg
SB23	09-Nov-04	3	SW8260	Xylenes, Total	7.1	0.92	ug/Kg	14.5	1.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1,1-Trichloroethane	ND U	1.3	ug/Kg	ND U	2.69	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8260	1,1,2,2-Tetrachloroethane	ND U	3.3	ug/Kg	ND U	1.15	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1,2-Trichloroethane	ND U	1.6	ug/Kg	ND U	1.43	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1-Dichloroethane	ND U	1.6	ug/Kg	ND U	1.57	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1-Dichloroethene	ND U	1.6	ug/Kg	ND U	3.25	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2,4-Trichlorobenzene	ND U	3.3	ug/Kg	ND U	2.19	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dibromo-3-chloropropane	ND U	3.3	ug/Kg	ND U	3.11	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dibromoethane (EDB)	ND U	1.6	ug/Kg	ND U	1.21	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	1.91	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichloroethane	ND U	3.3	ug/Kg	ND U	1.39	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichloropropane	ND U	1.6	ug/Kg	ND U	0.604	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,3-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	2.11	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,4-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	2-Hexanone	ND U	16	ug/Kg	ND U	1.74	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Acetone	ND U	16	ug/Kg	439	3.23	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Benzene	ND U	1.6	ug/Kg	ND U	1.69	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromodichloromethane	ND U	1.6	ug/Kg	ND U	1.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromoform	ND U	3.3	ug/Kg	ND U	1.95	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromomethane	ND U	1.6	ug/Kg	ND U	2.79	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Carbon Disulfide	ND U	1.6	ug/Kg	ND U	2.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Carbon tetrachloride	ND U	1.2	ug/Kg	ND U	2.46	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chlorobenzene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloroethane	ND U	1.6	ug/Kg	ND U	3.06	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloroform	ND U	1.6	ug/Kg	ND U	0.646	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloromethane	ND U	1.6	ug/Kg	ND U	2.79	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	cis-1,2-Dichloroethene	ND U	1.6	ug/Kg	ND U	1.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	cis-1,3-Dichloropropene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Cyclohexane	ND U	1.5	ug/Kg	ND U	3.19	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Dibromochloromethane	ND U	1.6	ug/Kg	ND U	2.28	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Dichlorodifluoromethane	ND U	1.6	ug/Kg	ND U	3.44	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8260	Ethylbenzene	ND U	1.6	ug/Kg	ND U	1.29	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Isopropylbenzene (Cumene)	ND U	0.83	ug/Kg	ND U	2.63	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methyl Acetate	ND U	0.83	ug/Kg	19.9	6.75	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methylcyclohexane	ND U	0.83	ug/Kg	ND U	1.49	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methylene Chloride	ND U	5	ug/Kg	ND U	1.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Styrene	ND U	1.5	ug/Kg	ND U	1.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	3.3	ug/Kg	ND U	1.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Tetrachloroethene (PCE)	ND U	1.5	ug/Kg	ND U	2.88	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Toluene	ND U	1.6	ug/Kg	ND U	1.52	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	trans-1,2-Dichloroethene	ND U	3.3	ug/Kg	ND U	2.48	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	trans-1,3-Dichloropropene	ND U	1.6	ug/Kg	ND U	1.46	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Trichloroethene (TCE)	ND U	1.6	ug/Kg	ND U	2.53	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Trichlorofluoromethane	ND U	1.6	ug/Kg	ND U	0.849	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Vinyl chloride	ND U	1.6	ug/Kg	ND U	2.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Xylenes, Total	ND U	1.5	ug/Kg	2.62 J	2.17	ug/Kg

SEMIVOLATILE ORGANIC COMPOUNDS

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, SVOCs,
Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	51.4	ug/Kg
SB16	28-Oct-04	3	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	51	ug/Kg
SB16	28-Oct-04	3	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	34.8	ug/Kg
SB16	28-Oct-04	3	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	304	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	531	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	128	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	154	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dinitrophenol	ND U	970	ug/Kg	ND U	412	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	120	ug/Kg
SB16	28-Oct-04	3	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	162	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.8	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	243	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	211	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	312	ug/Kg
SB16	28-Oct-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	704	ug/Kg
SB16	28-Oct-04	3	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	229	ug/Kg
SB16	28-Oct-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	77	ug/Kg	ND U	209	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	158	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	427	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	197	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	293	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	95.2	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	229	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	154	ug/Kg
SB16	28-Oct-04	3	SW8270	Acenaphthene	ND U	73	ug/Kg	ND U	13.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Acenaphthylene	ND U	71	ug/Kg	ND U	41.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Anthracene	ND U	58	ug/Kg	ND U	30.4	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(a)anthracene	ND U	49	ug/Kg	ND U	21.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	29.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(b)fluoranthene	ND U	40	ug/Kg	ND U	28.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(g,h,i)perylene	ND U	57	ug/Kg	ND U	26.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	32.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	473	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	536	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	147	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	38.4	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	121	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	377	ug/Kg
SB16	28-Oct-04	3	SW8270	Carbazole	ND U	150	ug/Kg	ND U	49.5	ug/Kg
SB16	28-Oct-04	3	SW8270	Chrysene	ND U	52	ug/Kg	ND U	17.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Dibenz(a,h)anthracene	ND U	63	ug/Kg	ND U	22.6	ug/Kg
SB16	28-Oct-04	3	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	277	ug/Kg
SB16	28-Oct-04	3	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	414	ug/Kg
SB16	28-Oct-04	3	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	236	ug/Kg
SB16	28-Oct-04	3	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	461	ug/Kg
SB16	28-Oct-04	3	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	92.5	ug/Kg
SB16	28-Oct-04	3	SW8270	Fluoranthene	ND U	55	ug/Kg	ND U	18.8	ug/Kg
SB16	28-Oct-04	3	SW8270	Fluorene	ND U	72	ug/Kg	ND U	11	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	94.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	151	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	58.8	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	49	ug/Kg	ND U	28.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Isophorone	ND U	150	ug/Kg	ND U	21.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Naphthalene	ND U	73	ug/Kg	ND U	10.8	ug/Kg
SB16	28-Oct-04	3	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	61.6	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	57.1	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	98.6	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	97.2	ug/Kg
SB16	28-Oct-04	3	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	240	ug/Kg
SB16	28-Oct-04	3	SW8270	Phenanthrene	ND U	58	ug/Kg	ND U	21.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Phenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB16	28-Oct-04	3	SW8270	Pyrene	ND U	41	ug/Kg	ND U	16.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	50.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	50.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	34.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	37.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	300	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	524	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	152	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dinitrophenol	ND U	960	ug/Kg	ND U	407	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	118	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	160	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	37.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	116	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	240	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	208	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	308	ug/Kg
SB17	09-Nov-04	0.5	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	695	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	227	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	206	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	156	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	421	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	195	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	290	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	94	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	227	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	152	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	41.1	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Anthracene	ND U	57	ug/Kg	ND U	30	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	21.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(a)pyrene	46 J	44	ug/Kg	ND U	29.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(b)fluoranthene	70 J	39	ug/Kg	59.3 J	27.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	26.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	31.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	467	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	530	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	145	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	119	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	372	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Carbazole	ND U	150	ug/Kg	ND U	48.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Chrysene	54 J	52	ug/Kg	ND U	17.1	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	22.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	274	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	409	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	233	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	455	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	91.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Fluoranthene	76 J	54	ug/Kg	ND U	18.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Fluorene	ND U	71	ug/Kg	ND U	10.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	92.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	149	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	58	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	27.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Isophorone	ND U	150	ug/Kg	ND U	21.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	10.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	60.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	56.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	97.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	96	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	237	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	20.8	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Phenol	ND U	150	ug/Kg	ND U	124	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Pyrene	71 J	40	ug/Kg	ND U	16.1	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	48.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	48	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	32.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	35.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	285	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	499	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	120	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	145	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dinitrophenol	ND U	920	ug/Kg	ND U	387	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	113	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	152	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	35.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	111	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	28	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	229	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	199	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	293	ug/Kg
SB18	28-Oct-04	0.5	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	662	ug/Kg
SB18	28-Oct-04	0.5	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	216	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4,6-Dinitro-2-methylphenol	ND U	73	ug/Kg	ND U	196	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	148	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	401	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	186	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	276	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	89.5	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	216	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	145	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Acenaphthene	ND U	69	ug/Kg	ND U	12.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Acenaphthylene	ND U	67	ug/Kg	ND U	39.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Anthracene	ND U	55	ug/Kg	ND U	28.5	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(a)anthracene	ND U	46	ug/Kg	ND U	20.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(a)pyrene	ND U	42	ug/Kg	ND U	27.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(b)fluoranthene	ND U	37	ug/Kg	ND U	26.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(g,h,i)perylene	ND U	54	ug/Kg	ND U	25.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(k)fluoranthene	ND U	65	ug/Kg	ND U	30.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	444	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	504	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	138	ug/Kg
SB18	28-Oct-04	0.5	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	36.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	114	ug/Kg
SB18	28-Oct-04	0.5	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	354	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Carbazole	ND U	150	ug/Kg	ND U	46.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Chrysene	ND U	50	ug/Kg	ND U	16.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dibenz(a,h)anthracene	ND U	59	ug/Kg	ND U	21.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	261	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	390	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	222	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	434	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	86.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Fluoranthene	ND U	52	ug/Kg	ND U	17.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Fluorene	ND U	68	ug/Kg	ND U	10.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	88.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	28.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	142	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	55.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Indeno(1,2,3-cd)pyrene	ND U	46	ug/Kg	ND U	26.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Isophorone	ND U	150	ug/Kg	ND U	20.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Naphthalene	ND U	69	ug/Kg	ND U	10.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	58	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	53.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	92.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	91.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	225	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Phenanthrene	ND U	55	ug/Kg	ND U	19.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Phenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Pyrene	ND U	38	ug/Kg	ND U	15.3	ug/Kg
SB18	28-Oct-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	54.1	ug/Kg
SB18	28-Oct-04	3	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	53.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	36.7	ug/Kg
SB18	28-Oct-04	3	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	39.9	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	320	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	559	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	135	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	162	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dinitrophenol	ND U	960	ug/Kg	ND U	434	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	126	ug/Kg
SB18	28-Oct-04	3	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	171	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	39.9	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	124	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	31.4	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	256	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	222	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	328	ug/Kg
SB18	28-Oct-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	742	ug/Kg
SB18	28-Oct-04	3	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	242	ug/Kg
SB18	28-Oct-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	220	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	166	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	450	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	208	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	309	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	100	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	242	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	162	ug/Kg
SB18	28-Oct-04	3	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	43.9	ug/Kg
SB18	28-Oct-04	3	SW8270	Anthracene	ND U	57	ug/Kg	ND U	32	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	23.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	31.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(b)fluoranthene	ND U	39	ug/Kg	ND U	29.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	28.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	33.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	498	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	565	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	155	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	40.4	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	127	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	397	ug/Kg
SB18	28-Oct-04	3	SW8270	Carbazole	ND U	150	ug/Kg	ND U	52.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Chrysene	ND U	52	ug/Kg	ND U	18.3	ug/Kg
SB18	28-Oct-04	3	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	23.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	292	ug/Kg
SB18	28-Oct-04	3	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	436	ug/Kg
SB18	28-Oct-04	3	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	249	ug/Kg
SB18	28-Oct-04	3	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	486	ug/Kg
SB18	28-Oct-04	3	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	97.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Fluoranthene	ND U	54	ug/Kg	ND U	19.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Fluorene	ND U	71	ug/Kg	ND U	11.6	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	99	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	32.3	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	159	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	61.9	ug/Kg
SB18	28-Oct-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	29.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Isophorone	ND U	150	ug/Kg	ND U	23.1	ug/Kg
SB18	28-Oct-04	3	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	11.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	64.9	ug/Kg
SB18	28-Oct-04	3	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	60.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	104	ug/Kg
SB18	28-Oct-04	3	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	102	ug/Kg
SB18	28-Oct-04	3	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	252	ug/Kg
SB18	28-Oct-04	3	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	22.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Phenol	ND U	150	ug/Kg	ND U	132	ug/Kg
SB18	28-Oct-04	3	SW8270	Pyrene	ND U	40	ug/Kg	ND U	17.2	ug/Kg
SB19	09-Nov-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	160	ug/Kg	ND U	52.4	ug/Kg
SB19	09-Nov-04	3	SW8270	1,2-Dichlorobenzene	ND U	160	ug/Kg	ND U	52.1	ug/Kg
SB19	09-Nov-04	3	SW8270	1,3-Dichlorobenzene	ND U	160	ug/Kg	ND U	35.5	ug/Kg
SB19	09-Nov-04	3	SW8270	1,4-Dichlorobenzene	ND U	160	ug/Kg	ND U	38.7	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4,5-Trichlorophenol	ND U	160	ug/Kg	ND U	310	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4,6-Trichlorophenol	ND U	160	ug/Kg	ND U	542	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dichlorophenol	ND U	160	ug/Kg	ND U	131	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dimethylphenol	ND U	160	ug/Kg	ND U	157	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dinitrophenol	ND U	990	ug/Kg	ND U	421	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dinitrotoluene	ND U	160	ug/Kg	ND U	122	ug/Kg
SB19	09-Nov-04	3	SW8270	2,6-Dinitrotoluene	ND U	160	ug/Kg	ND U	165	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Chloronaphthalene	ND U	160	ug/Kg	ND U	38.7	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Chlorophenol	ND U	160	ug/Kg	ND U	120	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Methylnaphthalene	ND U	160	ug/Kg	ND U	30.4	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	160	ug/Kg	ND U	248	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Nitroaniline	ND U	160	ug/Kg	ND U	216	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Nitrophenol	ND U	160	ug/Kg	ND U	318	ug/Kg
SB19	09-Nov-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	160	ug/Kg	ND U	719	ug/Kg
SB19	09-Nov-04	3	SW8270	3-Nitroaniline	ND U	160	ug/Kg	ND U	234	ug/Kg
SB19	09-Nov-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	79	ug/Kg	ND U	213	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	160	ug/Kg	ND U	161	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Chloro-3-methylphenol	ND U	160	ug/Kg	ND U	436	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Chloroaniline	ND U	160	ug/Kg	ND U	202	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	160	ug/Kg	ND U	299	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	160	ug/Kg	ND U	97.2	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Nitroaniline	ND U	160	ug/Kg	ND U	234	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Nitrophenol	ND U	160	ug/Kg	ND U	157	ug/Kg
SB19	09-Nov-04	3	SW8270	Acenaphthene	ND U	75	ug/Kg	ND U	13.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Acenaphthylene	ND U	72	ug/Kg	ND U	42.5	ug/Kg
SB19	09-Nov-04	3	SW8270	Anthracene	ND U	59	ug/Kg	ND U	31	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(a)anthracene	ND U	50	ug/Kg	ND U	22.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(a)pyrene	ND U	45	ug/Kg	ND U	30.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(b)fluoranthene	ND U	40	ug/Kg	ND U	28.9	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(g,h,i)perylene	ND U	58	ug/Kg	ND U	27.5	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(k)fluoranthene	ND U	70	ug/Kg	ND U	32.7	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzoic acid	ND UJ	160	ug/Kg	ND U	482	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzyl alcohol	ND U	160	ug/Kg	ND U	548	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzyl butyl phthalate	ND U	160	ug/Kg	ND U	150	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	160	ug/Kg	ND U	39.2	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	160	ug/Kg	ND U	124	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	160	ug/Kg	ND U	385	ug/Kg
SB19	09-Nov-04	3	SW8270	Carbazole	ND U	160	ug/Kg	ND U	50.6	ug/Kg
SB19	09-Nov-04	3	SW8270	Chrysene	ND U	53	ug/Kg	ND U	17.7	ug/Kg
SB19	09-Nov-04	3	SW8270	Dibenz(a,h)anthracene	ND U	64	ug/Kg	ND U	23.1	ug/Kg
SB19	09-Nov-04	3	SW8270	Dibenzofuran	ND U	160	ug/Kg	ND U	283	ug/Kg
SB19	09-Nov-04	3	SW8270	Diethylphthalate	ND U	160	ug/Kg	ND U	423	ug/Kg
SB19	09-Nov-04	3	SW8270	Dimethylphthalate	ND U	160	ug/Kg	ND U	241	ug/Kg
SB19	09-Nov-04	3	SW8270	Di-n-butylphthalate	ND U	160	ug/Kg	ND U	471	ug/Kg
SB19	09-Nov-04	3	SW8270	Di-n-octylphthalate	ND U	160	ug/Kg	ND U	94.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Fluoranthene	ND U	56	ug/Kg	ND U	19.2	ug/Kg
SB19	09-Nov-04	3	SW8270	Fluorene	ND U	74	ug/Kg	ND U	11.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachlorobenzene	ND U	160	ug/Kg	ND U	96	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8270	Hexachlorobutadiene	ND U	160	ug/Kg	ND U	31.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachlorocyclopentadiene	ND U	160	ug/Kg	ND U	154	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachloroethane	ND U	160	ug/Kg	ND U	60	ug/Kg
SB19	09-Nov-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	50	ug/Kg	ND U	28.9	ug/Kg
SB19	09-Nov-04	3	SW8270	Isophorone	ND U	160	ug/Kg	ND U	22.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Naphthalene	ND U	75	ug/Kg	ND U	11	ug/Kg
SB19	09-Nov-04	3	SW8270	Nitrobenzene	ND U	160	ug/Kg	ND U	62.9	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitrosodimethylamine	ND U	160	ug/Kg	ND U	58.3	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	160	ug/Kg	ND U	101	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitrosodiphenylamine	ND U	160	ug/Kg	ND U	99.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Pentachlorophenol	ND U	160	ug/Kg	ND U	245	ug/Kg
SB19	09-Nov-04	3	SW8270	Phenanthrene	ND U	59	ug/Kg	ND U	21.6	ug/Kg
SB19	09-Nov-04	3	SW8270	Phenol	ND U	160	ug/Kg	ND U	128	ug/Kg
SB19	09-Nov-04	3	SW8270	Pyrene	ND U	42	ug/Kg	ND U	16.7	ug/Kg
SB21	09-Nov-04	8	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	51.6	ug/Kg
SB21	09-Nov-04	8	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	51.3	ug/Kg
SB21	09-Nov-04	8	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	35	ug/Kg
SB21	09-Nov-04	8	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	38.1	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	305	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	533	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	128	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	155	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dinitrophenol	ND U	950	ug/Kg	ND U	414	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	120	ug/Kg
SB21	09-Nov-04	8	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	163	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	38.1	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.9	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	244	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	212	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	313	ug/Kg
SB21	09-Nov-04	8	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	708	ug/Kg
SB21	09-Nov-04	8	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	230	ug/Kg
SB21	09-Nov-04	8	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	210	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	158	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	429	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	198	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	295	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	95.6	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	230	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	155	ug/Kg
SB21	09-Nov-04	8	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	41.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Anthracene	ND U	57	ug/Kg	ND U	30.5	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	22	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	29.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(b)fluoranthene	ND U	39	ug/Kg	ND U	28.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	27.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	32.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	475	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	539	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	148	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	38.5	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	122	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	378	ug/Kg
SB21	09-Nov-04	8	SW8270	Carbazole	ND U	150	ug/Kg	ND U	49.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Chrysene	ND U	52	ug/Kg	ND U	17.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	22.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	279	ug/Kg
SB21	09-Nov-04	8	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	416	ug/Kg
SB21	09-Nov-04	8	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	237	ug/Kg
SB21	09-Nov-04	8	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	463	ug/Kg
SB21	09-Nov-04	8	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	92.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Fluoranthene	ND U	54	ug/Kg	ND U	18.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Fluorene	ND U	71	ug/Kg	ND U	11.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	94.5	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	151	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	59.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	28.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Isophorone	ND U	150	ug/Kg	ND U	22	ug/Kg
SB21	09-Nov-04	8	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	10.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	61.9	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	57.3	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	99.1	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	97.7	ug/Kg
SB21	09-Nov-04	8	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	241	ug/Kg
SB21	09-Nov-04	8	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	21.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Phenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB21	09-Nov-04	8	SW8270	Pyrene	ND U	40	ug/Kg	ND U	16.4	ug/Kg
SB23	09-Nov-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	160	ug/Kg	ND U	56.3	ug/Kg
SB23	09-Nov-04	3	SW8270	1,2-Dichlorobenzene	ND U	160	ug/Kg	ND U	56	ug/Kg
SB23	09-Nov-04	3	SW8270	1,3-Dichlorobenzene	ND U	160	ug/Kg	ND U	38.2	ug/Kg
SB23	09-Nov-04	3	SW8270	1,4-Dichlorobenzene	ND U	160	ug/Kg	ND U	41.6	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4,5-Trichlorophenol	ND U	160	ug/Kg	ND U	333	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4,6-Trichlorophenol	ND U	160	ug/Kg	ND U	582	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dichlorophenol	ND U	160	ug/Kg	ND U	140	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	2,4-Dimethylphenol	ND U	160	ug/Kg	ND U	169	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dinitrophenol	ND U	1000	ug/Kg	ND U	452	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dinitrotoluene	ND U	160	ug/Kg	ND U	131	ug/Kg
SB23	09-Nov-04	3	SW8270	2,6-Dinitrotoluene	ND U	160	ug/Kg	ND U	178	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Chloronaphthalene	ND U	160	ug/Kg	ND U	41.6	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Chlorophenol	ND U	160	ug/Kg	ND U	129	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Methylnaphthalene	ND U	160	ug/Kg	ND U	32.7	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	160	ug/Kg	ND U	267	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Nitroaniline	ND U	160	ug/Kg	ND U	232	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Nitrophenol	ND U	160	ug/Kg	ND U	342	ug/Kg
SB23	09-Nov-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	160	ug/Kg	ND U	772	ug/Kg
SB23	09-Nov-04	3	SW8270	3-Nitroaniline	ND U	160	ug/Kg	ND U	252	ug/Kg
SB23	09-Nov-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	80	ug/Kg	ND U	229	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	160	ug/Kg	ND U	173	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chloro-3-methylphenol	ND U	160	ug/Kg	ND U	468	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chloroaniline	ND U	160	ug/Kg	ND U	217	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	160	ug/Kg	ND U	322	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	160	ug/Kg	ND U	104	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Nitroaniline	ND U	160	ug/Kg	ND U	252	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Nitrophenol	ND U	160	ug/Kg	ND U	169	ug/Kg
SB23	09-Nov-04	3	SW8270	Acenaphthene	ND U	76	ug/Kg	ND U	14.4	ug/Kg
SB23	09-Nov-04	3	SW8270	Acenaphthylene	ND U	74	ug/Kg	ND U	45.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Anthracene	ND U	60	ug/Kg	ND U	33.3	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(a)anthracene	ND U	51	ug/Kg	ND U	24	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(a)pyrene	ND U	46	ug/Kg	ND U	32.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(b)fluoranthene	ND U	41	ug/Kg	ND U	31	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(g,h,i)perylene	ND U	59	ug/Kg	ND U	29.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(k)fluoranthene	ND U	71	ug/Kg	ND U	35.2	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzoic acid	ND UJ	160	ug/Kg	ND U	518	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	Benzyl alcohol	ND U	160	ug/Kg	ND U	588	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzyl butyl phthalate	ND U	160	ug/Kg	ND U	161	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	160	ug/Kg	ND U	42.1	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	160	ug/Kg	ND U	133	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	160	ug/Kg	ND U	413	ug/Kg
SB23	09-Nov-04	3	SW8270	Carbazole	ND U	160	ug/Kg	ND U	54.3	ug/Kg
SB23	09-Nov-04	3	SW8270	Chrysene	ND U	54	ug/Kg	ND U	19	ug/Kg
SB23	09-Nov-04	3	SW8270	Dibenz(a,h)anthracene	ND U	65	ug/Kg	ND U	24.8	ug/Kg
SB23	09-Nov-04	3	SW8270	Dibenzofuran	ND U	160	ug/Kg	ND U	304	ug/Kg
SB23	09-Nov-04	3	SW8270	Diethylphthalate	ND U	160	ug/Kg	ND U	454	ug/Kg
SB23	09-Nov-04	3	SW8270	Dimethylphthalate	ND U	160	ug/Kg	ND U	259	ug/Kg
SB23	09-Nov-04	3	SW8270	Di-n-butylphthalate	ND U	160	ug/Kg	ND U	506	ug/Kg
SB23	09-Nov-04	3	SW8270	Di-n-octylphthalate	ND U	160	ug/Kg	ND U	101	ug/Kg
SB23	09-Nov-04	3	SW8270	Fluoranthene	ND U	57	ug/Kg	ND U	20.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Fluorene	ND U	75	ug/Kg	ND U	12.1	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorobenzene	ND U	160	ug/Kg	ND U	103	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorobutadiene	ND U	160	ug/Kg	ND U	33.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorocyclopentadiene	ND U	160	ug/Kg	ND U	165	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachloroethane	ND U	160	ug/Kg	ND U	64.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	51	ug/Kg	ND U	31	ug/Kg
SB23	09-Nov-04	3	SW8270	Isophorone	ND U	160	ug/Kg	ND U	24	ug/Kg
SB23	09-Nov-04	3	SW8270	Naphthalene	ND U	76	ug/Kg	ND U	11.9	ug/Kg
SB23	09-Nov-04	3	SW8270	Nitrobenzene	ND U	160	ug/Kg	ND U	67.6	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitrosodimethylamine	ND U	160	ug/Kg	ND U	62.6	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	160	ug/Kg	ND U	108	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitrosodiphenylamine	ND U	160	ug/Kg	ND U	107	ug/Kg
SB23	09-Nov-04	3	SW8270	Pentachlorophenol	ND U	160	ug/Kg	ND U	263	ug/Kg
SB23	09-Nov-04	3	SW8270	Phenanthrene	ND U	60	ug/Kg	ND U	23.2	ug/Kg
SB23	09-Nov-04	3	SW8270	Phenol	ND U	160	ug/Kg	ND U	138	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	Pyrene	ND U	42	ug/Kg	ND U	17.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,2,4-Trichlorobenzene	ND U	370	ug/Kg	ND U	61.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,2-Dichlorobenzene	ND U	370	ug/Kg	ND U	61.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,3-Dichlorobenzene	ND U	370	ug/Kg	ND U	41.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,4-Dichlorobenzene	ND U	370	ug/Kg	ND U	45.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4,5-Trichlorophenol	ND U	370	ug/Kg	ND U	364	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4,6-Trichlorophenol	ND U	370	ug/Kg	ND U	636	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dichlorophenol	ND U	370	ug/Kg	ND U	153	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dimethylphenol	ND U	370	ug/Kg	ND U	185	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dinitrophenol	ND U	2300	ug/Kg	ND U	494	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dinitrotoluene	ND U	370	ug/Kg	ND U	144	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,6-Dinitrotoluene	ND U	370	ug/Kg	ND U	194	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Chloronaphthalene	ND U	370	ug/Kg	ND U	45.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Chlorophenol	ND U	370	ug/Kg	ND U	141	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Methylnaphthalene	ND U	370	ug/Kg	ND U	35.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Methylphenol (o-Cresol)	ND U	370	ug/Kg	362 J	291	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Nitroaniline	ND U	370	ug/Kg	ND U	253	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Nitrophenol	ND U	370	ug/Kg	ND U	374	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	3,3'-Dichlorobenzidine	ND U	370	ug/Kg	ND U	844	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	3-Nitroaniline	ND U	370	ug/Kg	ND U	275	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4,6-Dinitro-2-methylphenol	ND U	180	ug/Kg	ND U	250	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Bromophenyl phenyl ether	ND U	370	ug/Kg	ND U	189	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chloro-3-methylphenol	ND U	370	ug/Kg	ND U	512	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chloroaniline	ND U	370	ug/Kg	ND U	237	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chlorophenyl phenyl ether	ND U	370	ug/Kg	ND U	352	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Methylphenol (p-Cresol)	ND U	370	ug/Kg	ND U	114	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Nitroaniline	ND U	370	ug/Kg	ND U	275	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Nitrophenol	ND U	370	ug/Kg	ND U	185	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Acenaphthene	ND U	170	ug/Kg	ND U	15.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8270	Acenaphthylene	ND U	170	ug/Kg	116 J	49.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Anthracene	ND U	140	ug/Kg	ND U	36.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(a)anthracene	120 J	120	ug/Kg	100 J	26.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(a)pyrene	ND U	100	ug/Kg	115 J	35.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(b)fluoranthene	160 J	94	ug/Kg	171 J	33.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(g,h,i)perylene	ND U	130	ug/Kg	ND U	32.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(k)fluoranthene	170 J	160	ug/Kg	99.1 J	38.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzoic acid	ND UJ	370	ug/Kg	1850	566	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzyl alcohol	ND U	370	ug/Kg	ND U	643	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzyl butyl phthalate	ND U	370	ug/Kg	ND U	177	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Chloroethoxy)methane	ND U	370	ug/Kg	ND U	46	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Chloroisopropyl)ether	ND U	370	ug/Kg	ND U	145	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Ethylhexyl)phthalate	ND U	370	ug/Kg	ND U	452	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Carbazole	ND U	370	ug/Kg	ND U	59.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Chrysene	140 J	120	ug/Kg	145 J	20.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dibenz(a,h)anthracene	ND U	150	ug/Kg	ND U	27.1	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dibenzofuran	ND U	370	ug/Kg	ND U	332	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Diethylphthalate	ND U	370	ug/Kg	ND U	497	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dimethylphthalate	ND U	370	ug/Kg	ND U	283	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Di-n-butylphthalate	ND U	370	ug/Kg	584	553	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Di-n-octylphthalate	ND U	370	ug/Kg	ND U	111	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Fluoranthene	ND U	130	ug/Kg	250 J	22.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Fluorene	ND U	170	ug/Kg	ND U	13.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorobenzene	ND U	370	ug/Kg	ND U	113	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorobutadiene	ND U	370	ug/Kg	ND U	36.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorocyclopentadiene	ND U	370	ug/Kg	ND U	181	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachloroethane	ND U	370	ug/Kg	ND U	70.5	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Indeno(1,2,3-cd)pyrene	ND U	120	ug/Kg	ND U	33.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Isophorone	ND U	370	ug/Kg	ND U	26.3	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8270	Naphthalene	ND U	170	ug/Kg	ND U	13	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Nitrobenzene	ND U	370	ug/Kg	ND U	73.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitrosodimethylamine	ND U	370	ug/Kg	ND U	68.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitroso-di-n-propylamine	ND U	370	ug/Kg	272 J	118	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitrosodiphenylamine	ND U	370	ug/Kg	ND U	117	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Pentachlorophenol	ND U	370	ug/Kg	ND U	287	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Phenanthrene	ND U	140	ug/Kg	ND U	25.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Phenol	ND U	370	ug/Kg	535	151	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Pyrene	180 J	96	ug/Kg	102 J	19.6	ug/Kg

EXPLOSIVE COMPOUNDS

Analytical Results - Soil/Sediment Samples, Primary Results vs QA Results, Explosives, Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	150	ug/Kg	ND U	0.03	mg/Kg
SB16	28-Oct-04	3	SW8330	1,3-Dinitrobenzene	ND U	110	ug/Kg	ND U	0.0291	mg/Kg
SB16	28-Oct-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	150	ug/Kg	ND U	0.0403	mg/Kg
SB16	28-Oct-04	3	SW8330	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0668	mg/Kg
SB16	28-Oct-04	3	SW8330	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0615	mg/Kg
SB16	28-Oct-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.048	mg/Kg
SB16	28-Oct-04	3	SW8330	2-Nitrotoluene	ND U	150	ug/Kg	ND U	0.101	mg/Kg
SB16	28-Oct-04	3	SW8330	3-Nitrotoluene	ND U	150	ug/Kg	ND U	0.138	mg/Kg
SB16	28-Oct-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.06	mg/Kg
SB16	28-Oct-04	3	SW8330	4-Nitrotoluene	ND U	150	ug/Kg	ND U	0.1	mg/Kg
SB16	28-Oct-04	3	SW8330	HMX	ND U	150	ug/Kg	ND U	0.0271	mg/Kg
SB16	28-Oct-04	3	SW8330	Nitrobenzene	ND U	100	ug/Kg	ND U	0.0516	mg/Kg
SB16	28-Oct-04	3	SW8330	RDX	ND U	150	ug/Kg	ND U	0.0347	mg/Kg
SB16	28-Oct-04	3	SW8330	Tetryl	ND U	150	ug/Kg	ND U	0.0956	mg/Kg
SB17	09-Nov-04	0.5	SW8330	1,3,5-Trinitrobenzene	ND U	150	ug/Kg	ND U	0.0291	mg/Kg
SB17	09-Nov-04	0.5	SW8330	1,3-Dinitrobenzene	ND U	110	ug/Kg	ND U	0.0281	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,4,6-Trinitrotoluene	ND U	150	ug/Kg	ND U	0.039	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0646	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0595	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0464	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2-Nitrotoluene	ND U	150	ug/Kg	ND U	0.0981	mg/Kg
SB17	09-Nov-04	0.5	SW8330	3-Nitrotoluene	ND U	150	ug/Kg	ND U	0.134	mg/Kg
SB17	09-Nov-04	0.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.058	mg/Kg
SB17	09-Nov-04	0.5	SW8330	4-Nitrotoluene	ND U	150	ug/Kg	ND U	0.0972	mg/Kg
SB17	09-Nov-04	0.5	SW8330	HMX	ND U	150	ug/Kg	ND U	0.0262	mg/Kg
SB17	09-Nov-04	0.5	SW8330	Nitrobenzene	ND U	100	ug/Kg	ND U	0.0499	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8330	RDX	ND U	150	ug/Kg	ND U	0.0336	mg/Kg
SB17	09-Nov-04	0.5	SW8330	Tetryl	ND U	150	ug/Kg	ND U	0.0924	mg/Kg
SB18	28-Oct-04	0.5	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.03	mg/Kg
SB18	28-Oct-04	0.5	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.0291	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0403	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0668	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0615	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.048	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.101	mg/Kg
SB18	28-Oct-04	0.5	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.138	mg/Kg
SB18	28-Oct-04	0.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.06	mg/Kg
SB18	28-Oct-04	0.5	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.1	mg/Kg
SB18	28-Oct-04	0.5	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0271	mg/Kg
SB18	28-Oct-04	0.5	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0516	mg/Kg
SB18	28-Oct-04	0.5	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0347	mg/Kg
SB18	28-Oct-04	0.5	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0956	mg/Kg
SB18	28-Oct-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0309	mg/Kg
SB18	28-Oct-04	3	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.03	mg/Kg
SB18	28-Oct-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0415	mg/Kg
SB18	28-Oct-04	3	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0688	mg/Kg
SB18	28-Oct-04	3	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0634	mg/Kg
SB18	28-Oct-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0495	mg/Kg
SB18	28-Oct-04	3	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.104	mg/Kg
SB18	28-Oct-04	3	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.142	mg/Kg
SB18	28-Oct-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0618	mg/Kg
SB18	28-Oct-04	3	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SB18	28-Oct-04	3	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0279	mg/Kg
SB18	28-Oct-04	3	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0531	mg/Kg
SB18	28-Oct-04	3	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0357	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0984	mg/Kg
SB19	09-Nov-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	130	ug/Kg	ND U	0.0298	mg/Kg
SB19	09-Nov-04	3	SW8330	1,3-Dinitrobenzene	ND U	92	ug/Kg	ND U	0.0288	mg/Kg
SB19	09-Nov-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	130	ug/Kg	ND U	0.0399	mg/Kg
SB19	09-Nov-04	3	SW8330	2,4-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0661	mg/Kg
SB19	09-Nov-04	3	SW8330	2,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.061	mg/Kg
SB19	09-Nov-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0476	mg/Kg
SB19	09-Nov-04	3	SW8330	2-Nitrotoluene	ND U	130	ug/Kg	ND U	0.1	mg/Kg
SB19	09-Nov-04	3	SW8330	3-Nitrotoluene	ND U	130	ug/Kg	ND U	0.137	mg/Kg
SB19	09-Nov-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0594	mg/Kg
SB19	09-Nov-04	3	SW8330	4-Nitrotoluene	ND U	130	ug/Kg	ND U	0.0995	mg/Kg
SB19	09-Nov-04	3	SW8330	HMX	ND U	130	ug/Kg	ND U	0.0268	mg/Kg
SB19	09-Nov-04	3	SW8330	Nitrobenzene	ND U	85	ug/Kg	ND U	0.0511	mg/Kg
SB19	09-Nov-04	3	SW8330	RDX	ND U	130	ug/Kg	ND U	0.0344	mg/Kg
SB19	09-Nov-04	3	SW8330	Tetryl	ND U	130	ug/Kg	ND U	0.0946	mg/Kg
SB21	09-Nov-04	8	SW8330	1,3,5-Trinitrobenzene	ND U	140	ug/Kg	ND U	0.0299	mg/Kg
SB21	09-Nov-04	8	SW8330	1,3-Dinitrobenzene	ND U	100	ug/Kg	ND U	0.0289	mg/Kg
SB21	09-Nov-04	8	SW8330	2,4,6-Trinitrotoluene	ND U	140	ug/Kg	ND U	0.0401	mg/Kg
SB21	09-Nov-04	8	SW8330	2,4-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0664	mg/Kg
SB21	09-Nov-04	8	SW8330	2,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0613	mg/Kg
SB21	09-Nov-04	8	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0478	mg/Kg
SB21	09-Nov-04	8	SW8330	2-Nitrotoluene	ND U	140	ug/Kg	ND U	0.101	mg/Kg
SB21	09-Nov-04	8	SW8330	3-Nitrotoluene	ND U	140	ug/Kg	ND U	0.137	mg/Kg
SB21	09-Nov-04	8	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0597	mg/Kg
SB21	09-Nov-04	8	SW8330	4-Nitrotoluene	ND U	140	ug/Kg	ND U	0.1	mg/Kg
SB21	09-Nov-04	8	SW8330	HMX	ND U	140	ug/Kg	ND U	0.0269	mg/Kg
SB21	09-Nov-04	8	SW8330	Nitrobenzene	ND U	92	ug/Kg	ND U	0.0513	mg/Kg
SB21	09-Nov-04	8	SW8330	RDX	ND U	140	ug/Kg	ND U	0.0345	mg/Kg
SB21	09-Nov-04	8	SW8330	Tetryl	ND U	140	ug/Kg	ND U	0.0951	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0309	mg/Kg
SB23	09-Nov-04	3	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.03	mg/Kg
SB23	09-Nov-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0415	mg/Kg
SB23	09-Nov-04	3	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0688	mg/Kg
SB23	09-Nov-04	3	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0634	mg/Kg
SB23	09-Nov-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0495	mg/Kg
SB23	09-Nov-04	3	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.104	mg/Kg
SB23	09-Nov-04	3	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.142	mg/Kg
SB23	09-Nov-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0618	mg/Kg
SB23	09-Nov-04	3	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SB23	09-Nov-04	3	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0279	mg/Kg
SB23	09-Nov-04	3	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0531	mg/Kg
SB23	09-Nov-04	3	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0357	mg/Kg
SB23	09-Nov-04	3	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0984	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0306	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.0297	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0411	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0681	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0628	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.049	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.141	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0612	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.102	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0276	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0526	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0354	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0974	mg/Kg

PCBs

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, PCBs,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.4	ug/Kg	ND U	9.24	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.4	ug/Kg	ND U	38.7	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.4	ug/Kg	ND U	20.9	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.4	ug/Kg	ND U	20	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.4	ug/Kg	ND U	20.4	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.4	ug/Kg	30 J	17.7	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1260 (Aroclor 1260)	93	9.4	ug/Kg	67.4 J	4.95	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.5	ug/Kg	ND U	46.8	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.5	ug/Kg	ND U	196	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.5	ug/Kg	ND U	106	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.5	ug/Kg	ND U	101	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.5	ug/Kg	ND U	104	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.5	ug/Kg	247 J	89.9	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1260 (Aroclor 1260)	6100	9.5	ug/Kg	579 J	25.1	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1016 (Aroclor 1016)	ND U	8.9	ug/Kg	ND U	8.66	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1221 (Aroclor 1221)	ND U	8.9	ug/Kg	ND U	36.3	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1232 (Aroclor 1232)	ND U	8.9	ug/Kg	ND U	19.6	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1242 (Aroclor 1242)	ND U	8.9	ug/Kg	ND U	18.7	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1248 (Aroclor 1248)	ND U	8.9	ug/Kg	ND U	19.2	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1254 (Aroclor 1254)	ND U	8.9	ug/Kg	16.7 J	16.6	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1260 (Aroclor 1260)	27	8.9	ug/Kg	48.1 J	4.64	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.9	ug/Kg	ND U	9.85	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.9	ug/Kg	ND U	41.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.9	ug/Kg	ND U	22.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.9	ug/Kg	ND U	21.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.9	ug/Kg	ND U	21.8	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.9	ug/Kg	ND U	18.9	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8081	PCB-1260 (Aroclor 1260)	ND U	9.9	ug/Kg	ND U	5.28	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	10	ug/Kg	ND U	9.29	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	10	ug/Kg	ND U	38.9	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	10	ug/Kg	ND U	21	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	10	ug/Kg	ND U	20.1	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	10	ug/Kg	ND U	20.5	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	10	ug/Kg	47.6 J	17.8	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1260 (Aroclor 1260)	110	10	ug/Kg	115 J	4.98	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.6	ug/Kg	ND U	8.89	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.6	ug/Kg	ND U	37.2	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.6	ug/Kg	ND U	20.1	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.6	ug/Kg	ND U	19.2	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.6	ug/Kg	ND U	19.6	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.6	ug/Kg	ND U	17.1	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1260 (Aroclor 1260)	ND U	9.6	ug/Kg	ND U	4.76	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.7	ug/Kg	ND U	52	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.7	ug/Kg	ND U	218	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.7	ug/Kg	ND U	118	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.7	ug/Kg	ND U	113	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.7	ug/Kg	ND U	115	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.7	ug/Kg	ND U	99.9	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1260 (Aroclor 1260)	19	9.7	ug/Kg	ND U	27.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1016 (Aroclor 1016)	ND U	120	ug/Kg	ND U	215	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1221 (Aroclor 1221)	ND U	120	ug/Kg	ND U	8070	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1232 (Aroclor 1232)	ND U	120	ug/Kg	ND U	946	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1242 (Aroclor 1242)	ND U	120	ug/Kg	ND U	465	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1248 (Aroclor 1248)	ND U	120	ug/Kg	ND U	1610	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1254 (Aroclor 1254)	ND U	120	ug/Kg	1520 J	413	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1260 (Aroclor 1260)	3900	120	ug/Kg	3140 J	115	ug/Kg

METALS

Analytical Results - Solid Samples,
Primary Results vs QA Results, Metals,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW6010	Aluminum	13300	11.4	mg/Kg	12100	5.27	mg/Kg
SB16	28-Oct-04	3	SW6010	Antimony	ND U	1.1	mg/Kg	1.41 J	0.644	mg/Kg
SB16	28-Oct-04	3	SW6010	Arsenic	12.4	0.68	mg/Kg	13.9	0.531	mg/Kg
SB16	28-Oct-04	3	SW6010	Barium	109	1.1	mg/Kg	80.5	0.0539	mg/Kg
SB16	28-Oct-04	3	SW6010	Beryllium	0.76 J	0.23	mg/Kg	0.625	0.0594	mg/Kg
SB16	28-Oct-04	3	SW6010	Cadmium	0.72 J	0.23	mg/Kg	0.532	0.0495	mg/Kg
SB16	28-Oct-04	3	SW6010	Calcium	14800	114	mg/Kg	11600	21.2	mg/Kg
SB16	28-Oct-04	3	SW6010	Chromium	19.2	0.46	mg/Kg	31	0.0833	mg/Kg
SB16	28-Oct-04	3	SW6010	Cobalt	15.1	0.68	mg/Kg	14.3	0.0663	mg/Kg
SB16	28-Oct-04	3	SW6010	Copper	19.5	0.68	mg/Kg	22.2	0.41	mg/Kg
SB16	28-Oct-04	3	SW6010	Iron	25700	6.8	mg/Kg	29700	3.38	mg/Kg
SB16	28-Oct-04	3	SW6010	Lead	13.2	0.34	mg/Kg	15.3	0.237	mg/Kg
SB16	28-Oct-04	3	SW6010	Magnesium	4320	114	mg/Kg	4480	7.73	mg/Kg
SB16	28-Oct-04	3	SW6010	Manganese	2400	1.4	mg/Kg	799	0.529	mg/Kg
SB16	28-Oct-04	3	SW6010	Nickel	48.4	0.68	mg/Kg	33.9	0.113	mg/Kg
SB16	28-Oct-04	3	SW6010	Potassium	1810	114	mg/Kg	1420	9.04	mg/Kg
SB16	28-Oct-04	3	SW6010	Selenium	ND U	0.68	mg/Kg	ND U	1.16	mg/Kg
SB16	28-Oct-04	3	SW6010	Silver	ND U	0.23	mg/Kg	0.206 J	0.0948	mg/Kg
SB16	28-Oct-04	3	SW6010	Sodium	ND U	114	mg/Kg	72.7 J	5.35	mg/Kg
SB16	28-Oct-04	3	SW6010	Thallium	ND U	0.68	mg/Kg	6.33	0.986	mg/Kg
SB16	28-Oct-04	3	SW6010	Vanadium	27.2	0.68	mg/Kg	30	0.291	mg/Kg
SB16	28-Oct-04	3	SW6010	Zinc	64	1.1	mg/Kg	70.8	0.206	mg/Kg
SB16	28-Oct-04	3	SW7471	Mercury (total)	0.024 J	0.013	mg/Kg	0.0184 J	0.0061	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Aluminum	15900	11	mg/Kg	2430	25.7	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Antimony	ND U	2.2	mg/Kg	ND U	3.14	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Arsenic	9.3	0.66	mg/Kg	7 J	2.59	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW6010	Barium	89.3	1.1	mg/Kg	18.1	0.263	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Beryllium	0.81 J	0.22	mg/Kg	0.298 J	0.29	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Cadmium	0.25 J	0.22	mg/Kg	0.418 J	0.241	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Calcium	7390	220	mg/Kg	291000	103	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Chromium	21.4	0.44	mg/Kg	5.9	0.406	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Cobalt	10.2	1.1	mg/Kg	1.9 J	0.129	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Copper	20.2	1.1	mg/Kg	8.06 J	2	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Iron	26500	6.6	mg/Kg	7460	16.5	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Lead	20.5	0.33	mg/Kg	8.15	0.461	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Magnesium	4420	220	mg/Kg	30600	37.7	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Manganese	624	0.66	mg/Kg	338	2.58	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Nickel	25.2	1.1	mg/Kg	7.71 J	0.549	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Potassium	1580	220	mg/Kg	647 J	44.1	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Selenium	ND U	0.66	mg/Kg	ND U	2.27	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Silver	ND U	0.22	mg/Kg	ND U	0.462	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Sodium	ND U	220	mg/Kg	180 J	26.1	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Thallium	ND U	0.66	mg/Kg	ND U	4.81	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Vanadium	35.4	1.1	mg/Kg	9.06 J	1.42	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Zinc	69	1.1	mg/Kg	6.48 J	1	mg/Kg
SB17	09-Nov-04	0.5	SW7471	Mercury (total)	0.0302 J	0.0152	mg/Kg	0.0252 J	0.006	mg/Kg
SB17	09-Nov-04	0.5	SW7471	Mercury (total)	0.032 J	0.015	mg/Kg	0.0252 J	0.006	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Aluminum	5990	10.7	mg/Kg	5010	5.89	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Antimony	ND U	1.1	mg/Kg	ND U	0.72	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Arsenic	5.7	0.64	mg/Kg	6.24	0.594	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Barium	20.6	1.1	mg/Kg	18.7	0.0602	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Beryllium	0.39 J	0.21	mg/Kg	0.226 J	0.0664	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Cadmium	ND U	0.21	mg/Kg	0.241 J	0.0553	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Calcium	1100	107	mg/Kg	1040	23.7	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Chromium	8.7	0.43	mg/Kg	8.77	0.0931	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW6010	Cobalt	6	0.64	mg/Kg	6.91	0.0741	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Copper	7.8	0.64	mg/Kg	8.93	0.459	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Iron	12500	6.4	mg/Kg	13200	3.78	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Lead	7.7	0.32	mg/Kg	5.94	0.264	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Magnesium	970	107	mg/Kg	961	8.64	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Manganese	403	0.64	mg/Kg	454	0.591	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Nickel	11.3	0.64	mg/Kg	11.8	0.126	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Potassium	444	107	mg/Kg	377	10.1	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Selenium	ND U	0.64	mg/Kg	ND U	1.3	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Silver	ND U	0.21	mg/Kg	ND U	0.106	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Sodium	ND U	107	mg/Kg	41.1 J	5.98	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Thallium	ND U	0.64	mg/Kg	2.99	1.1	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Vanadium	17.5	0.64	mg/Kg	18.8	0.325	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Zinc	25.1	1.1	mg/Kg	25.6	0.23	mg/Kg
SB18	28-Oct-04	0.5	SW7471	Mercury (total)	0.02 J	0.015	mg/Kg	0.0396	0.0058	mg/Kg
SB18	28-Oct-04	3	SW6010	Aluminum	10200	12.2	mg/Kg	9250	4.87	mg/Kg
SB18	28-Oct-04	3	SW6010	Antimony	ND U	1.2	mg/Kg	ND U	0.595	mg/Kg
SB18	28-Oct-04	3	SW6010	Arsenic	7.7	0.73	mg/Kg	7.22	0.491	mg/Kg
SB18	28-Oct-04	3	SW6010	Barium	59.7	1.2	mg/Kg	56.9	0.0498	mg/Kg
SB18	28-Oct-04	3	SW6010	Beryllium	0.56 J	0.24	mg/Kg	0.424 J	0.0549	mg/Kg
SB18	28-Oct-04	3	SW6010	Cadmium	0.26 J	0.24	mg/Kg	0.356 J	0.0457	mg/Kg
SB18	28-Oct-04	3	SW6010	Calcium	50000	608	mg/Kg	46600	19.6	mg/Kg
SB18	28-Oct-04	3	SW6010	Chromium	15.5	0.49	mg/Kg	15.5	0.077	mg/Kg
SB18	28-Oct-04	3	SW6010	Cobalt	8.5	0.73	mg/Kg	9.04	0.0613	mg/Kg
SB18	28-Oct-04	3	SW6010	Copper	19.5	0.73	mg/Kg	23.3	0.379	mg/Kg
SB18	28-Oct-04	3	SW6010	Iron	19000	7.3	mg/Kg	21400	3.13	mg/Kg
SB18	28-Oct-04	3	SW6010	Lead	11.9	0.37	mg/Kg	12.9	0.219	mg/Kg
SB18	28-Oct-04	3	SW6010	Magnesium	20600	122	mg/Kg	19700	7.14	mg/Kg
SB18	28-Oct-04	3	SW6010	Manganese	423	0.73	mg/Kg	390	0.489	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW6010	Nickel	24.4	0.73	mg/Kg	24.8	0.104	mg/Kg
SB18	28-Oct-04	3	SW6010	Potassium	1880	122	mg/Kg	1430	8.36	mg/Kg
SB18	28-Oct-04	3	SW6010	Selenium	ND U	0.73	mg/Kg	ND U	2.15	mg/Kg
SB18	28-Oct-04	3	SW6010	Silver	ND U	0.24	mg/Kg	0.232 J	0.0877	mg/Kg
SB18	28-Oct-04	3	SW6010	Sodium	140 J	122	mg/Kg	112 J	4.95	mg/Kg
SB18	28-Oct-04	3	SW6010	Thallium	ND U	0.73	mg/Kg	ND U	0.911	mg/Kg
SB18	28-Oct-04	3	SW6010	Vanadium	24.1	0.73	mg/Kg	25.8	0.269	mg/Kg
SB18	28-Oct-04	3	SW6010	Zinc	46.2	1.2	mg/Kg	53.6	0.19	mg/Kg
SB18	28-Oct-04	3	SW7471	Mercury (total)	ND U	0.017	mg/Kg	0.0307 J	0.0055	mg/Kg
SB19	09-Nov-04	3	SW6010	Aluminum	20900	11.2	mg/Kg	7990	6.61	mg/Kg
SB19	09-Nov-04	3	SW6010	Antimony	ND U	2.2	mg/Kg	ND U	0.808	mg/Kg
SB19	09-Nov-04	3	SW6010	Arsenic	13.2	0.67	mg/Kg	5.98	0.667	mg/Kg
SB19	09-Nov-04	3	SW6010	Barium	125	1.1	mg/Kg	56.4	0.0676	mg/Kg
SB19	09-Nov-04	3	SW6010	Beryllium	1.2	0.22	mg/Kg	0.546 J	0.0746	mg/Kg
SB19	09-Nov-04	3	SW6010	Cadmium	0.43 J	0.22	mg/Kg	0.417 J	0.0621	mg/Kg
SB19	09-Nov-04	3	SW6010	Calcium	6140	223	mg/Kg	3420	26.6	mg/Kg
SB19	09-Nov-04	3	SW6010	Chromium	31.4	0.45	mg/Kg	14.3	0.105	mg/Kg
SB19	09-Nov-04	3	SW6010	Cobalt	15.3	1.1	mg/Kg	4.73	0.0832	mg/Kg
SB19	09-Nov-04	3	SW6010	Copper	39.6	1.1	mg/Kg	19.2	0.515	mg/Kg
SB19	09-Nov-04	3	SW6010	Iron	42100	6.7	mg/Kg	17600	4.24	mg/Kg
SB19	09-Nov-04	3	SW6010	Lead	24.2	0.33	mg/Kg	14.2	0.297	mg/Kg
SB19	09-Nov-04	3	SW6010	Magnesium	5770	223	mg/Kg	2740	9.7	mg/Kg
SB19	09-Nov-04	3	SW6010	Manganese	944	0.67	mg/Kg	137	0.663	mg/Kg
SB19	09-Nov-04	3	SW6010	Nickel	45.3	1.1	mg/Kg	18.6	0.141	mg/Kg
SB19	09-Nov-04	3	SW6010	Potassium	2680	223	mg/Kg	917	11.3	mg/Kg
SB19	09-Nov-04	3	SW6010	Selenium	ND U	0.67	mg/Kg	ND U	1.46	mg/Kg
SB19	09-Nov-04	3	SW6010	Silver	ND U	0.22	mg/Kg	ND U	0.119	mg/Kg
SB19	09-Nov-04	3	SW6010	Sodium	ND U	223	mg/Kg	63.6 J	6.72	mg/Kg
SB19	09-Nov-04	3	SW6010	Thallium	ND U	0.67	mg/Kg	ND U	1.24	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW6010	Vanadium	49	1.1	mg/Kg	19.9	0.365	mg/Kg
SB19	09-Nov-04	3	SW6010	Zinc	98.7	1.1	mg/Kg	53.3	0.258	mg/Kg
SB19	09-Nov-04	3	SW7471	Mercury (total)	0.029 J	0.015	mg/Kg	0.0314 J	0.0065	mg/Kg
SB21	09-Nov-04	8	SW6010	Aluminum	14700	11.4	mg/Kg	7950	6.15	mg/Kg
SB21	09-Nov-04	8	SW6010	Antimony	ND U	2.3	mg/Kg	ND U	0.753	mg/Kg
SB21	09-Nov-04	8	SW6010	Arsenic	19.3	0.68	mg/Kg	7.57	0.621	mg/Kg
SB21	09-Nov-04	8	SW6010	Barium	106	1.1	mg/Kg	57.5	0.063	mg/Kg
SB21	09-Nov-04	8	SW6010	Beryllium	0.84 J	0.23	mg/Kg	0.503 J	0.0694	mg/Kg
SB21	09-Nov-04	8	SW6010	Cadmium	0.36 J	0.23	mg/Kg	0.493 J	0.0578	mg/Kg
SB21	09-Nov-04	8	SW6010	Calcium	41100	456	mg/Kg	53800	24.8	mg/Kg
SB21	09-Nov-04	8	SW6010	Chromium	22	0.46	mg/Kg	14.1	0.0973	mg/Kg
SB21	09-Nov-04	8	SW6010	Cobalt	12.7	1.1	mg/Kg	6.68	0.0774	mg/Kg
SB21	09-Nov-04	8	SW6010	Copper	28.5	1.1	mg/Kg	22	0.479	mg/Kg
SB21	09-Nov-04	8	SW6010	Iron	32900	6.8	mg/Kg	18600	3.95	mg/Kg
SB21	09-Nov-04	8	SW6010	Lead	13.7	0.34	mg/Kg	11.5	0.276	mg/Kg
SB21	09-Nov-04	8	SW6010	Magnesium	15000	228	mg/Kg	17600	9.03	mg/Kg
SB21	09-Nov-04	8	SW6010	Manganese	962	0.68	mg/Kg	465	0.618	mg/Kg
SB21	09-Nov-04	8	SW6010	Nickel	39.2	1.1	mg/Kg	22.9	0.132	mg/Kg
SB21	09-Nov-04	8	SW6010	Potassium	2560	228	mg/Kg	1450	10.6	mg/Kg
SB21	09-Nov-04	8	SW6010	Selenium	ND U	0.68	mg/Kg	ND U	1.36	mg/Kg
SB21	09-Nov-04	8	SW6010	Silver	ND U	0.23	mg/Kg	ND U	0.111	mg/Kg
SB21	09-Nov-04	8	SW6010	Sodium	ND U	228	mg/Kg	129 J	6.25	mg/Kg
SB21	09-Nov-04	8	SW6010	Thallium	ND U	0.68	mg/Kg	ND U	1.15	mg/Kg
SB21	09-Nov-04	8	SW6010	Vanadium	34.4	1.1	mg/Kg	22	0.34	mg/Kg
SB21	09-Nov-04	8	SW6010	Zinc	74.7	1.1	mg/Kg	53.4	0.24	mg/Kg
SB21	09-Nov-04	8	SW7471	Mercury (total)	ND U	0.016	mg/Kg	0.0134 J	0.0053	mg/Kg
SB23	09-Nov-04	3	SW6010	Aluminum	12000	11.8	mg/Kg	7380	6.01	mg/Kg
SB23	09-Nov-04	3	SW6010	Antimony	ND U	2.4	mg/Kg	ND U	0.735	mg/Kg
SB23	09-Nov-04	3	SW6010	Arsenic	11.7	0.71	mg/Kg	13.1	0.606	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW6010	Barium	67.3	1.2	mg/Kg	47	0.0615	mg/Kg
SB23	09-Nov-04	3	SW6010	Beryllium	0.64 J	0.24	mg/Kg	0.575	0.0678	mg/Kg
SB23	09-Nov-04	3	SW6010	Cadmium	0.36 J	0.24	mg/Kg	0.727	0.0565	mg/Kg
SB23	09-Nov-04	3	SW6010	Calcium	66700	1180	mg/Kg	20700	24.2	mg/Kg
SB23	09-Nov-04	3	SW6010	Chromium	18.4	0.47	mg/Kg	13.8	0.095	mg/Kg
SB23	09-Nov-04	3	SW6010	Cobalt	10.3	1.2	mg/Kg	12.8	0.0756	mg/Kg
SB23	09-Nov-04	3	SW6010	Copper	20.6	1.2	mg/Kg	26.6	0.468	mg/Kg
SB23	09-Nov-04	3	SW6010	Iron	25900	7.1	mg/Kg	22600	3.86	mg/Kg
SB23	09-Nov-04	3	SW6010	Lead	12.6	0.36	mg/Kg	14.2	0.27	mg/Kg
SB23	09-Nov-04	3	SW6010	Magnesium	18500	237	mg/Kg	10900	8.82	mg/Kg
SB23	09-Nov-04	3	SW6010	Manganese	831	0.71	mg/Kg	676	0.603	mg/Kg
SB23	09-Nov-04	3	SW6010	Nickel	27.3	1.2	mg/Kg	29.3	0.129	mg/Kg
SB23	09-Nov-04	3	SW6010	Potassium	1700	237	mg/Kg	787	10.3	mg/Kg
SB23	09-Nov-04	3	SW6010	Selenium	ND U	0.71	mg/Kg	ND U	1.33	mg/Kg
SB23	09-Nov-04	3	SW6010	Silver	ND U	0.24	mg/Kg	ND U	0.108	mg/Kg
SB23	09-Nov-04	3	SW6010	Sodium	ND U	237	mg/Kg	93.7 J	6.11	mg/Kg
SB23	09-Nov-04	3	SW6010	Thallium	ND U	0.71	mg/Kg	ND U	1.12	mg/Kg
SB23	09-Nov-04	3	SW6010	Vanadium	30.5	1.2	mg/Kg	27.2	0.332	mg/Kg
SB23	09-Nov-04	3	SW6010	Zinc	54.7	1.2	mg/Kg	59.8	0.235	mg/Kg
SB23	09-Nov-04	3	SW7471	Mercury (total)	ND U	0.013	mg/Kg	0.0128 J	0.0059	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Aluminum	9300	14	mg/Kg	7810	6.46	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Antimony	1.5 J	1.4	mg/Kg	ND U	0.79	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Arsenic	3.9	0.84	mg/Kg	2.64 J	0.652	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Barium	62.3	1.4	mg/Kg	57.3	0.0661	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Beryllium	0.56 J	0.28	mg/Kg	0.385 J	0.0729	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Cadmium	0.58 J	0.28	mg/Kg	0.518 J	0.0607	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Calcium	6860	140	mg/Kg	6850	26	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Chromium	14.2	0.56	mg/Kg	14.4	0.102	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Cobalt	5.6	0.84	mg/Kg	6.26	0.0813	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW6010	Copper	21.4	0.84	mg/Kg	21.7	0.503	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Iron	15000	8.4	mg/Kg	15000	4.14	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Lead	191	0.42	mg/Kg	169	0.29	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Magnesium	2660	140	mg/Kg	2640	9.47	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Manganese	162	0.84	mg/Kg	165	0.648	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Nickel	17.9	0.84	mg/Kg	18.9	0.138	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Potassium	1240	140	mg/Kg	1050	11.1	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Selenium	1.2 J	0.84	mg/Kg	1.57 J	1.43	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Silver	ND U	0.28	mg/Kg	ND U	0.116	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Sodium	ND U	140	mg/Kg	51.9 J	6.56	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Thallium	ND U	0.84	mg/Kg	4.41	1.21	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Vanadium	20.8	0.84	mg/Kg	19.7	0.357	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Zinc	69.6	1.4	mg/Kg	68.2	0.252	mg/Kg
SWSD-02	27-Oct-04	0	SW7471	Mercury (total)	0.078	0.019	mg/Kg	0.0589	0.0058	mg/Kg

Appendix K

Chemical Quality Assurance Report

(assessment of the QA analytical laboratory data).

Chemical Quality Assurance Report

Acid Areas
Remedial Investigation, Part 1
Former Plum Brook Ordnance Works
Sandusky, OH

October/November 2004 Sampling Event

Presented by:

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ATTACHMENT 3 DATA COMPARISON TABLES

Abbreviations and Acronyms

ASC	Analytical Services Center
CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LDP	Laboratory Data Package
LLR	Lowest Level for Reporting
MB	Method Blank
MDL	Method Detection Limit
mg/L	milligram per liter
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
µg/L	Microgram per liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

INTRODUCTION

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the soil and sediment sampling event performed by Jacobs Engineering, Inc. at the Acid Areas at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio in late-October/early-November 2004. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of QA samples that were collected in conjunction with the project QC samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Table 1-1 Primary/QC/QA Sample Number Correlation. The QA data is presented in tables in Attachment II – QA Data Summary.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocol:

- *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, November 1986, (SW-846)

Specific analytical methods used included the following:

- SW-846 8260B – volatile organic compounds (VOCs);
- SW-846 8270C – semivolatile organic compounds (SVOCs);
- SW-846 8082 – polychlorinated biphenyls (PCBs);
- SW-846 8330A – nitroaromatic compounds (referred to as explosives hereafter);
- SW-846 6010B – total metals by Inductively Coupled Argon Plasma Spectrophotometer (ICAP); and
- SW-846 7471A – total mercury.

Analytical Laboratories

The following analytical laboratory was contracted to analyze the Primary/QC field samples for this project:

Analytical Services Center (ASC)
Division of Ecology and Environment, Inc.
Contact: Tony Bogolin, Project Manager
4493 Walden Avenue
Lancaster, NY 14086
Phone: (716) 685-8080; Fax: (716) 685-0852

The following analytical laboratory was contracted to analyze the QA field samples for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115; Fax: (615) 846-5426

Both of these laboratories have been validated by the US Army Corps of Engineers (USACE).

Data Evaluation Procedures

The quality of these data has been evaluated following procedures consistent with those included in Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects*, 10 October 1997, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The following data quality issues were addressed in this evaluation:

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review of field QC blank data to detect contamination from outside sources;
- Review of QC data to evaluate data reproducibility;
- Review of laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates;
- Assign appropriate qualifiers to usable data and qualify unusable data as rejected, if necessary; and
- Data evaluation findings presented in term of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

The following definitions provide explanations of the data qualifiers that were assigned to results in the data review process. The data qualifier definitions are consistent with those used within the *Functional Guidelines* referenced above.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

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

I. QC DATA EVALUATION

A. Accuracy:

1) Volatile Organic Compounds

- For Sample Delivery Group (SDG) 0410348, eight compounds were reported as having low percent recoveries (%Rs) and one compound was reported as having a high %R for the matrix spike (MS). The matrix spike duplicate (MSD) for this SDG reported four low %Rs. SDG-0411164 did not report results for MS/MSD analyses.
- One laboratory control sample (LCS) for SDG-0410348 reported a high %R for trichlorofluoromethane, all other LCS %Rs in this SDG were within limits. One LCS for SDG-0410359 reported high %Rs for methyl acetate and trichlorofluoromethane and another LCS for this SDG reported a high %R for trichlorofluoromethane.
- Surrogate recovery was high for the original analysis and reanalysis of samples PBOW-04-SD-AA2-SWSD-02-A of SDG-0410348, PBOW-04-SO-AA3-SB-19-A(8-10) of SDG-0411164, and PBOW-04-SO-AA2-SB-16-A(.5-1.5) of SDG-0410359.
- The trip blank (TB) for SDG-0410348 reported a detectable concentration of the common laboratory contaminant acetone at a concentration of 11.0 µg/L. The TB for SDG-0410359 reported detectable concentrations of 11.3 µg/L for acetone and 0.461 J µg/L for toluene. The TB for SDG-0411164 reported a detectable concentration of 12.9 µg/L for acetone.
- The internal standard area responses for the following samples from SDG-0411164 were found to be below the criteria limits for their original analyses and reanalyses, suggesting a potential matrix effect.

  PBOW-04-SO-AA3-SB-19-A(8-10)
  PBOW-04-SO-AA3-SB-23-A(3-5)
  PBOW-04-SO-AA3-SB-23-D(3-5)
  PBOW-04-SO-AA3-SB-23-A(8-10)

- Holding times for the following samples from SDG-0410359 exceeded the criteria limit of 14 days by 45 minutes to 2 hours for the following soil samples:

  PB-04-SO-AA2-SB-18-D(.5-1.5)
  PB-04-SO-AA2-SB-18-A(3-5)
  PB-04-SO-AA2-SB-18-D(3-5)
  PB-04-SO-AA2-SB-18-A(8-10)
  PB-04-SO-AA2-SB-17-A(.5-1.5)
  PB-04-SO-AA2-SB-17-A(3-5)
  PB-04-SO-AA2-SB-17-A(8-10)

2) Semivolatile Organic Compounds

- For SDG-0410348, 19 compounds were reported as having low %Rs and one compound was reported as having a high %R for the matrix spike (MS). The MSD for this SDG was reported to have 13 low %Rs and three high %Rs.

- One LCS for SDG-0410359 reported low %Rs for: 3,3-dichlorobenzidine, 4-chloroaniline, 4-nitroaniline, acetophenone, atrazine, benzaldehyde, caprolactam, and hexachlorocyclopentadiene. The LCS for SDG-0411164 reported low %Rs for: 1,1-biphenyl, 2,4-dimethylphenol, 3,3-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, acetophenone, atrazine, benzaldehyde, caprolactam, and hexachloropentadiene. The LCS for SDG-0410348 reported low %Rs for 3,3-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and hexachloropentadiene. The following chemicals were omitted from the LCS spike for SDG-0410348, therefore their %Rs were reported as zero: acetophenone, atrazine, benzaldehyde, and caprolactam.
- Surrogate recovery was high for sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) and its replicate analysis for SDG-0411164.
- Sample PBOW-04-SO-AA3-SB-17-A(3-5) had a dilution factor of 20.
- Sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) had a dilution factor of 5.

3) Explosives

- No QC results were reported as outside control criteria limits for explosives analyses included in SDGs-0410348, 0411164, and 0410359.

4) Polychlorinated Biphenyls

- Surrogate recoveries for decachlorobiphenyl and tetrachloro-m-xylene were diluted out on the following samples due to matrix interferences. Sample results are estimated.

  PBOW-04-SO-AA2-SB-16-A(.5-1.5)
  PBOW-04-SO-AA2-SB-17-A(.5-1.5)
  PBOW-04-SO-AA3-SB-19-A(.5-1.5)
  PBOW-04-SO-AA3-SB-21-A(.5-1.5)
  PBOW-04-SD-AA2-SWSD-01
  PBOW-04-SD-AA2-SWSD-02D

- Surrogate recovery for tetrachloro-m-xylene was outside criteria limits for sample PBOW-04-SO-AA3-SB-17-A(.5-1.5). Sample results are estimated.
- Surrogate recovery for decachlorobiphenyl was outside of criteria limits for the following samples. Sample results are estimated.

  PBOW-04-SO-AA3-SB-23-A(.5-1.5)
  PBOW-04-SO-AA3-SB-23-A(3-5)
  PBOW-04-SD-AA2-SWSD-03A

- Sample PBOW-04-SO-AA2-SB-16-A(.5-1.5) had a dilution factor of 100.
- Sample PBOW-04-SO-AA2-SB-17-A(.5-1.5) had a dilution factor of 20.
- Sample PBOW-04-SO-AA3-SB-17-D(.5-1.5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA3-SB-19-A(.5-1.5) had a dilution factor of 50.
- Sample PBOW-04-SO-AA3-SB-21-A(.5-1.5) had a dilution factor of 20.

- Sample PBOW-04-SO-AA3-SB-23-A(.5-1.5) had a dilution factor of 10.
- Sample PBOW-04-SO-AA3-SB-23-A(3-5) had a dilution factor of 5.
- Sample PBOW-04-SO-AA3-SB-23-D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SD-AA2-SWSD-01 had a dilution factor of 20.
- Sample PBOW-04-SD-AA2-SWSD-02D had a dilution factor of 20.
- Sample PBOW-04-SD-AA2-SWSD-03A had a dilution factor of 5.
- Sample PBOW-04-SD-AA3-SWSD-02A had a dilution factor of 5.

5) Metals

- The %Rs reported for the MS and MSD of SDG-0410348 for aluminum, antimony, calcium, iron, and potassium were outside the QC criteria limits.
- The %Rs for the MS and MSD of SDG-0411164 for aluminum, antimony, barium, calcium, iron, magnesium, manganese, potassium, and zinc were outside the QC criteria limit. The %Rs for the MS only of this SDG for nickel and vanadium were outside the QC criteria limit.
- Sample PBOW-04-SO-AA2-SB-16A(.5-1.5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-18D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-18A(8-10) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-17A(8-10) had a dilution factor of 2.
- Sample PBOW-04-SO-AA3-SB-17A(.5-1.5) had a dilution factor of 5.
- Sample PBOW-04-SO-AA3-SB-19D(3-5) had a dilution factor of 2.
- Sample PBOW-04-SO-AA2-SB-17A(8-10) had a dilution factor of 2.
- Selenium was analyzed at a dilution factor of 5 for sample PBOW-04-SO-AA2-SB-16A(8-10).
- Selenium was analyzed at a dilution factor of 2 for the following samples:

  PBOW-04-SO-AA2-SB-18A(3-5)
  PBOW-04-SO-AA2-SB-18D(3-5)
  PBOW-04-SO-AA2-SB-18A(8-10)
  PBOW-04-SO-AA2-SB-17A(8-10)

B. Precision

1) Volatile Organic Compounds

- The MS/MSD pair relative percent difference (RPD) for SDG-0410348 was reported as just slightly higher (35.9%) than the criteria limit (35%) for acetone.

2) Semivolatile Organic Compounds

- For SDG-0410348, 19 compounds were reported as having low %Rs and one compound was reported as having a high %R for the matrix spike (MS). The MS/MSD pair for SDG-0410348 was reported to have seven RPDs that could not be calculated (because the %Rs were zero) and three RPDs that were above the criteria limits.

3) Explosives

- All QC recoveries were within the criteria limits.

4) Polychlorinated Biphenyls

- The MS/MSD pair RPD was reported as greater than the criteria limit for SDG-0410348.

5) Metals

- Calcium, iron, and manganese had high RPDs, outside the criteria limits, for the MS/MSD pair of SDG-0410348.
- Zinc was found to be outside the serial dilution criteria limits for SDG-0410348.
- Manganese was found to have a high RPD, outside the criteria limits, for the MS/MSD pair of SDG-0411164.
- Cobalt, magnesium, nickel, and vanadium were found to be outside the serial dilution criteria limits for SDG-0411164.
- Zinc was found to be outside the serial dilution criteria limits for SDG-0410359.

C. Laboratory Contamination

1) Volatile Organic Compounds

- Detectable concentrations of 1.763 µg/L were reported for one method blank (MB) of SDG-0410348 and one MB for SDG-0410359 for the common laboratory contaminant methylene chloride.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated blanks.

3) Explosives

- No contamination was found in any of the associated blanks.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated blanks.

5) Metals

- Chromium was detected at concentrations of 0.1435 µg/L in the MB and 1.182 µg/L in one of the continuing calibration blanks of SDG-0410348. Iron was detected in another continuing calibration blank of this SDG at a concentration of 38.54 µg/L.

- Iron and potassium were detected in the MB of SDG-0411164 at concentrations above the method detection limit, but below the reporting limit.
- Aluminum, magnesium, potassium, sodium, and iron were detected in one or more continuing calibration blanks of SDG-0411164.

II. QA DATA EVALUATION

a. Accuracy

1) Volatile Organic Compounds

- One LCS of SDG-0411099 had a %R only slightly lower (73%) than the criteria limit (74%) for 1,4-dichlorobenzene.
- The MS for SDG 0410181 and 0410196 had a low %R for carbon disulfide.

2) Semivolatile Organic Compounds

- The MS had a low %R for N-nitroso-di-methylamine for SDG-0411099. The MSD had low %Rs for N-nitroso-di-methylamine and hexachlorocyclopentadiene for the same SDG.
- One LCS for SDG-0411099 had low %Rs for benzoic acid and 2,4-dinitrophenol.
- The MS %Rs were low for benzoic acid and N-nitroso-di-methylamine for SDG-0410181 and 0410196.

3) Explosives

- The MS for SDG-0410181 and 0410196 had a high %R for 4-amino-2,6-dinitrotoluene.

4) Polychlorinated Biphenyls

- All QC samples were within criteria limits.

5) Metals

- The MS of SDG-0410181 and 0410196 had low %Rs for aluminum, antimony, iron, magnesium, manganese, nickel, and zinc. The MSD of these same SDGs had a low %R for antimony and high %Rs for magnesium and potassium.

B. Precision

1) Volatile Organic Compounds

- All QC samples were within the criteria limits.

2) Semivolatile Organic Compounds

- All QC samples were within the criteria limits.

3) Explosives

- All QC samples were within the criteria limits.

4) Polychlorinated Biphenyls

- All QC samples were within the criteria limits.

5) Metals

- The MS/MSD pair for SDG-0410181 and 0410196 had high RPDs for aluminum, antimony, calcium, iron, magnesium, manganese, and potassium.
- Beryllium, cadmium, copper, and potassium had serial dilution results outside QC criteria limits for SDG-0410181 and 0410196.

C. Laboratory Contamination

1) Volatile Organic Compounds

- No contamination was found in any of the associated blanks.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated blanks.

3) Explosives

- No contamination was found in any of the associated blanks.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated blanks.

5) Metals

- One continuing calibration blank in SDG-0411099 had a low %R for calcium.

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a QA/QC data comparison was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
Soil	All	> 5x difference when one result is <DL	>10x difference when one result is <DL
Soil	All	>3x difference when one result is <RL	>5x difference when one result is <RL
Soil	VOCs only	> 5x difference	> 10x difference
Soil	Metals only	> 2x difference	> 3x difference
Soil	All except VOCs and metals	> 4x difference	> 5x difference

Attachment III presents tables that show a side-by-side comparison of the analytical results of the QC and QA samples.

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Samples found in disagreement do not necessarily indicate an error has been made or inappropriate procedures used. Factors including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis can contribute to duplicate disagreement. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends or extreme non-conformances exist, associated data were evaluated carefully to determine their validity.

The results of the comparison between Primary Field QC and QA samples are presented below.

A. Volatile Organic Compounds

Sample PBOW-04-SO-AA2-SB-18(.5-1.5) had a major disagreement for methyl acetate between the QC and QA samples, as the QC sample result was reported not detected.

Samples PBOW-04-SO-AA2-SB-18(3-5), PBOW-04-SO-AA2-SB-21(8-10), and PBOW-04-SO-AA2-SB-23(3-5) had major disagreements for acetone between the QC and QA samples, as the QA sample results were reported as not detected.

Sample PBOW-04-SO-AA2-SB-19(3-5) had major disagreements for acetone and methyl acetate between the QC and QA samples, as the QA sample results were reported as not detected.

Sample PBOW-04-SD-AA2-SWSD-02 had major disagreements for acetone and methyl acetate between the QC and QA samples, as the QA sample results were reported as not detected.

B. Semivolatile Organic Compounds

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had major disagreements for benzo(a)pyrene, fluoranthene, and pyrene between the QC and QA samples, as the QC sample results were reported as not detected.

Sample PBOW-04-SD-AA2-SWSD-02 had major disagreements for 2-methylphenol(o-cresol), acenaphthylene, benzo(a)pyrene, benzoic acid, di-n-butlyphthalate, fluoranthene, n-nitro-di-n-propylamine, and phenol, between the QC and QA samples, as the QA sample results were reported as not detected.

C. Explosives

All explosive analytical results for QC and QA samples were reported as ND (not dectected). Detection level concentrations between the two labs were comparable. ASC, which analyzed the QC samples, was able to achieve detection level concentrations from 0.085 to 0.170 mg/kg. ELAB, which analyzed the QA samples, was able to achieve detection level concentrations of 0.0268 to 0.1 mg/kg.

D. Polychlorinated Biphenyls

The detected PCB compounds in the QC and QA results for samples PBOW-04-SO-AA2-SB-16(3-5), PBOW-04-SO-AA2-SB-17(.5-1.5), PBOW-04-SO-AA2-SB-18(.5-1.5), PBOW-04-SO-AA2-SB-19(3-5) were in major disagreement from the corresponding QA sample results, as the QA results showed non detects.

For sample PBOW-04-SO-AA2-SB-23(3-5) the analytical results for the QC and corresponding QA samples were in major disagreement as the QC results were reported as not detected. The QA result for PCB 1260 for this sample was reported as 19 µg/kg.

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had a disagreement with PCB 1260 results between the QC and QA samples as the detected concentrations were reported at 579 J and 3900 µg/kg, respectively.

E. Metals

Sample PBOW-04-SO-AA2-SB-16(3-5) had major disagreements for manganese and sodium, and a minor disagreement for thallium between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-17(.5-1.5) had major disagreements for aluminum, barium, calcium, chromium, cobalt, iron, magnesium, nickel, sodium, vanadium, and zinc, and minor disagreements for beryllium, copper, lead, and potassium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-18(.5-1.5) had a major disagreement for sodium and a minor disagreement for thallium between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-19(3-5) had major disagreements for cobalt, manganese, and sodium, and minor disagreements for aluminum, arsenic, barium, chromium, copper, iron, magnesium, nickel, potassium, and vanadium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-21(8-10) had a major disagreement for sodium and minor disagreements for arsenic, manganese, and potassium, between the QC and QA samples.

Sample PBOW-04-SO-AA2-SB-23(3-5) had major disagreements for calcium and sodium, and a minor disagreement for potassium, between the QC and QA samples.

Sample PBOW-04-SD-AA2-SWSD-02 had a major disagreement for sodium between the QC and QA samples, as sodium was not detected in the QA sample.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. QC results were unreliable in some cases due to high analyte content that resulted in matrix interference. All of the results were considered usable as no results were rejected due to laboratory error, and where appropriate. Qualifiers were added to specific data results to indicate estimated concentrations when QC data results are not within specific criteria limitations.

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. No results were found to unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

ATTACHMENT 1 – SAMPLE CORRELATION

Primary Field Sample ID	Primary Lab Sample ID	QA Field Sample ID	QA Lab Sample ID	Sample Date and Time	Requested Analyses
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01A	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	8260B VOCs
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01B	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-17-A (0.5-1.5')	0411164-01C	PBOW-04-SO--AA3-SB-17-B (0.5-1.5")	0411099-01	11/9/04 0847	6010B/7471A Metals
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05A	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	8260B VOCs
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05B	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-19-A (3-5')	0411164-05C	PBOW-04-SO--AA3-SB-19-B (3-5')	0411099-02	11/9/04 1003	6010B/7471A Metals
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10A	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	8260B VOCs
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10B	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-21-A (8-10')	0411164-10C	PBOW-04-SO--AA3-SB-21-B (8-10')	0411099-03	11/9/04 1120	6010B/7471A Metals
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13A	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	8260B VOCs
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13B	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO--AA3-SB-23-A (3-5')	0411164-13C	PBOW-04-SO--AA3-SB-23-B (3-5')	0411099-04	11/9/04 1320	6010B/7471A Metals
PBOW-04-SD-AA2-SWSD-02-A	0410348-02A	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	8260B VOCs
PBOW-04-SD-AA2-SWSD-02-A	0410348-02B	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	Percent Moisture
PBOW-04-SD-AA2-SWSD-02-A	0410348-02C	PBOW-04-SO-AA2-SWSD-02-B	0410181-01	10/27/04 1040	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros, 6010B/7471A Metals
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02A	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	8260B VOCs
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02B	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	Percent Moisture
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02C	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-16-A (3-5')	0410359-02D	PBOW-04-SO-AA2-SB-16-B (3-5')	0410196-01	10/28/04 1250	6010B/7471A Metals
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07A	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	8260B VOCs
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07B	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	Percent Moisture
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07C	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-18-A (3-5')	0410359-07D	PBOW-04-SO-AA2-SB-18-B (3-5')	0410196-02	10/28/04 1425	6010B/7471A Metals
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05A	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	8260B VOCs
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05B	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	Percent Moisture
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05C	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-04-SO-AA2-SB-18-A (0.5-1.5')	0410359-05D	PBOW-04-SO-AA2-SB-18-B (0.5-1.5')	0410196-03	10/28/04 1402	6010B/7471A Metals

ATTACHMENT II – QA DATA SUMMARIES

VOLATILE ORGANIC COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - VOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	0.91	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Hexanone	ND	U	2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Acetone	28	J	7.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Benzene	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromoform	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromomethane	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.61	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.2	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroform	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloromethane	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Cyclohexane	ND	U	0.81	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Ethylbenzene	ND	U	1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.91	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylcyclohexane	ND	U	0.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylene Chloride	ND	U	6.1	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Styrene	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.5	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Toluene	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	0.71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.2	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.3	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8260	Xylenes, Total	ND	U	0.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,1-Trichloroethane	ND	U	0.84	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1,2-Trichloroethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1-Dichloroethane	ND	U	1	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,1-Dichloroethene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2,4-Trichlorobenzene	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dibromoethane (EDB)	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichloroethane	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,2-Dichloropropane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,3-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	1,4-Dichlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	2-Butanone (MEK)	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	2-Hexanone	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Acetone	ND	U	10	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Benzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromochloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromodichloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromoform	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Bromomethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Carbon Disulfide	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Carbon tetrachloride	ND	U	0.74	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chlorobenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloroethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloroform	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Chloromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	cis-1,2-Dichloroethene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	cis-1,3-Dichloropropene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Cyclohexane	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Dibromochloromethane	ND	U	1	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Dichlorodifluoromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Ethylbenzene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methyl Acetate	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methylcyclohexane	ND	U	0.53	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Methylene Chloride	ND	U	3.2	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Styrene	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Tetrachloroethene (PCE)	ND	U	0.95	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Toluene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	trans-1,2-Dichloroethene	ND	U	2.1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	trans-1,3-Dichloropropene	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Trichloroethene (TCE)	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Trichlorofluoromethane	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Vinyl chloride	ND	U	1	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8260	Xylenes, Total	ND	U	0.95	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,1-Trichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1,2-Trichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1-Dichloroethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,1-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichlorobenzene	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichloroethane	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,2-Dichloropropane	ND	U	0.36	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,3-Dichlorobenzene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	1,4-Dichlorobenzene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	2-Butanone (MEK)	22	J	4.8	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	2-Hexanone	ND	U	2.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Acetone	170		8.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Benzene	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromochloromethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromodichloromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromoform	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Bromomethane	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Carbon Disulfide	ND	U	0.72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Carbon tetrachloride	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chlorobenzene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloroethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloroform	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Chloromethane	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	cis-1,2-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	cis-1,3-Dichloropropene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Cyclohexane	ND	U	0.95	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Dibromochloromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Dichlorodifluoromethane	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Ethylbenzene	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methyl Acetate	23		1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methylcyclohexane	ND	U	0.12	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Methylene Chloride	ND	U	7.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Styrene	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.6	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Tetrachloroethene (PCE)	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Toluene	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	trans-1,2-Dichloroethene	ND	U	0.84	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	trans-1,3-Dichloropropene	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Trichloroethene (TCE)	ND	U	0.24	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Trichlorofluoromethane	ND	U	0.36	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Vinyl chloride	ND	U	0.48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8260	Xylenes, Total	ND	U	0.6	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	5.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	2-Hexanone	ND	U	2.7	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Acetone	ND	U	9.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Benzene	7.2		1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.54	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromoform	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Bromomethane	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.81	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloroform	ND	U	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Chloromethane	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Cyclohexane	13		1.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Ethylbenzene	3.5	J	1.3	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methyl Acetate	ND	U	1.2	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylcyclohexane	19		0.13	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Methylene Chloride	ND	U	8.1	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Styrene	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Toluene	16		0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	0.94	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.27	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.4	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8260	Xylenes, Total	8.4		0.67	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.78	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Hexanone	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Acetone	ND	U	9.8	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Benzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromochloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromodichloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromoform	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromomethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon Disulfide	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.68	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chlorobenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroform	ND	U	0.98	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Cyclohexane	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dibromochloromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Ethylbenzene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylcyclohexane	ND	U	0.49	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylene Chloride	ND	U	2.9	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Styrene	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.88	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Toluene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	2	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Vinyl chloride	ND	U	0.98	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8260	Xylenes, Total	ND	U	0.88	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,1-Trichloroethane	ND	U	0.78	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2,2-Tetrachloroethane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1,2-Trichloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1-Dichloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,1-Dichloroethene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2,3-Trichlorobenzene	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2,4-Trichlorobenzene	ND	U	1.9	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dibromo-3-chloropropane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dibromoethane (EDB)	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichloroethane	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,2-Dichloropropane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,3-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	1,4-Dichlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	2-Butanone (MEK)	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	2-Hexanone	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Acetone	ND	U	9.7	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Benzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromochloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromodichloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromoform	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Bromomethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Carbon Disulfide	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Carbon tetrachloride	ND	U	0.68	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chlorobenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloroethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloroform	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Chloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	cis-1,2-Dichloroethene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	cis-1,3-Dichloropropene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Cyclohexane	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Dibromochloromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Dichlorodifluoromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Ethylbenzene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Isopropylbenzene (Cumene)	ND	U	0.48	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methyl Acetate	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methylcyclohexane	ND	U	0.48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Methylene Chloride	ND	U	2.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Styrene	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Tetrachloroethene (PCE)	ND	U	0.87	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Toluene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	trans-1,2-Dichloroethene	ND	U	1.9	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	trans-1,3-Dichloropropene	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Trichloroethene (TCE)	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Trichlorofluoromethane	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Vinyl chloride	ND	U	0.97	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8260	Xylenes, Total	ND	U	0.87	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,1-Trichloroethane	ND	U	0.82	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2,2-Tetrachloroethane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1,2-Trichloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,1-Dichloroethene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,3-Trichlorobenzene	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2,4-Trichlorobenzene	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromo-3-chloropropane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dibromoethane (EDB)	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloroethane	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,2-Dichloropropane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,3-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	1,4-Dichlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Butanone (MEK)	ND	U	10	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	2-Hexanone	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Acetone	ND	U	10	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Benzene	2.6	J	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromochloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromodichloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromoform	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Bromomethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon Disulfide	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Carbon tetrachloride	ND	U	0.71	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chlorobenzene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloroform	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Chloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,2-Dichloroethene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	cis-1,3-Dichloropropene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Cyclohexane	6.1		0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dibromochloromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Dichlorodifluoromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Ethylbenzene	3.2	J	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Isopropylbenzene (Cumene)	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methyl Acetate	ND	U	0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylcyclohexane	7.8		0.51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Methylene Chloride	ND	U	3	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Styrene	ND	U	0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	2	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Tetrachloroethene (PCE)	ND	U	0.92	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Toluene	10		1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,2-Dichloroethene	ND	U	2	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	trans-1,3-Dichloropropene	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichloroethene (TCE)	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Trichlorofluoromethane	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Vinyl chloride	ND	U	1	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8260	Xylenes, Total	7.1		0.92	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,1-Trichloroethane	ND	U	1.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2,2-Tetrachloroethane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2-Trichloro-1,2,2-TFE	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1,2-Trichloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1-Dichloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,1-Dichloroethene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2,3-Trichlorobenzene	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2,4-Trichlorobenzene	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dibromo-3-chloropropane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dibromoethane (EDB)	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichloroethane	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,2-Dichloropropane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,3-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	1,4-Dichlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	2-Butanone (MEK)	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	2-Hexanone	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	4-Methyl-2-pentanone (MIBK)	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Acetone	ND	U	16	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Benzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromochloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromodichloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromoform	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Bromomethane	ND	U	1.6	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Carbon Disulfide	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Carbon tetrachloride	ND	U	1.2	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chlorobenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloroethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloroform	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Chloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	cis-1,2-Dichloroethene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	cis-1,3-Dichloropropene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Cyclohexane	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Dibromochloromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Dichlorodifluoromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Ethylbenzene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Isopropylbenzene (Cumene)	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methyl Acetate	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methylcyclohexane	ND	U	0.83	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Methylene Chloride	ND	U	5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Styrene	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Tetrachloroethene (PCE)	ND	U	1.5	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Toluene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	trans-1,2-Dichloroethene	ND	U	3.3	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	trans-1,3-Dichloropropene	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Trichloroethene (TCE)	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Trichlorofluoromethane	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Vinyl chloride	ND	U	1.6	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8260	Xylenes, Total	ND	U	1.5	ug/Kg

SEMIVOLATILE ORGANIC COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - SVOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	970	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	77	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthene	ND	U	73	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthylene	ND	U	71	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Anthracene	ND	U	58	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	49	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	40	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	57	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Carbazole	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Chrysene	ND	U	52	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	63	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluoranthene	ND	U	55	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluorene	ND	U	72	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	49	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Isophorone	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Naphthalene	ND	U	73	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenanthrene	ND	U	58	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenol	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pyrene	ND	U	41	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dinitrophenol	ND	U	960	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Anthracene	ND	U	57	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(a)pyrene	46	J	44	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(b)fluoranthene	70	J	39	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Carbazole	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Chrysene	54	J	52	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Fluoranthene	76	J	54	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Fluorene	ND	U	71	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Isophorone	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Naphthalene	ND	U	72	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Phenol	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8270	Pyrene	71	J	40	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dinitrophenol	ND	U	920	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	73	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Acenaphthene	ND	U	69	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Acenaphthylene	ND	U	67	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Anthracene	ND	U	55	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(a)anthracene	ND	U	46	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(a)pyrene	ND	U	42	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(b)fluoranthene	ND	U	37	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(g,h,i)perylene	ND	U	54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzo(k)fluoranthene	ND	U	65	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Carbazole	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Chrysene	ND	U	50	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dibenz(a,h)anthracene	ND	U	59	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Fluoranthene	ND	U	52	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Fluorene	ND	U	68	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	46	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Isophorone	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Naphthalene	ND	U	69	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Nitrobenzene	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Phenanthrene	ND	U	55	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Phenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8270	Pyrene	ND	U	38	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	960	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	4-Nitrophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Anthracene	ND	U	57	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	39	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Carbazole	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Chrysene	ND	U	52	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluoranthene	ND	U	54	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Fluorene	ND	U	71	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Hexachloroethane	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Isophorone	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Naphthalene	ND	U	72	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Phenol	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8270	Pyrene	ND	U	40	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	990	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitrophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Methylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	79	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitroaniline	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitrophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthene	ND	U	75	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthylene	ND	U	72	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Anthracene	ND	U	59	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	50	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	45	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	40	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	58	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	70	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzoic acid	ND	UJ	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl alcohol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Carbazole	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Chrysene	ND	U	53	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	64	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenzofuran	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Diethylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dimethylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluoranthene	ND	U	56	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluorene	ND	U	74	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachloroethane	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	50	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Isophorone	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Naphthalene	ND	U	75	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Nitrobenzene	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pentachlorophenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenanthrene	ND	U	59	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenol	ND	U	160	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pyrene	ND	U	42	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2,4-Trichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,2-Diphenylhydrazine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,3-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	1,4-Dichlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4,5-Trichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4,6-Trichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dichlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dimethylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dinitrophenol	ND	U	950	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Chloronaphthalene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Chlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Methylnaphthalene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Methylphenol (o-Cresol)	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	2-Nitrophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3,3'-Dichlorobenzidine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3-Methylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	3-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4,6-Dinitro-2-methylphenol	ND	U	76	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Bromophenyl phenyl ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chloro-3-methylphenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chloroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Chlorophenyl phenyl ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Methylphenol (p-Cresol)	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Nitroaniline	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	4-Nitrophenol	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Acenaphthene	ND	U	72	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Acenaphthylene	ND	U	70	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Anthracene	ND	U	57	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(a)anthracene	ND	U	48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(a)pyrene	ND	U	44	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(b)fluoranthene	ND	U	39	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(g,h,i)perylene	ND	U	56	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzo(k)fluoranthene	ND	U	68	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzoic acid	ND	UJ	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzyl alcohol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Benzyl butyl phthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroethoxy)methane	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroethyl)ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Chloroisopropyl)ether	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Carbazole	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Chrysene	ND	U	52	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dibenz(a,h)anthracene	ND	U	62	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dibenzofuran	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Diethylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Dimethylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Di-n-butylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Di-n-octylphthalate	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Fluoranthene	ND	U	54	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Fluorene	ND	U	71	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorobutadiene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachlorocyclopentadiene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Hexachloroethane	ND	U	150	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	48	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Isophorone	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Naphthalene	ND	U	72	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Nitrobenzene	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitrosodimethylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitroso-di-n-propylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	N-Nitrosodiphenylamine	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Pentachlorophenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Phenanthrene	ND	U	57	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Phenol	ND	U	150	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8270	Pyrene	ND	U	40	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2,4-Trichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,2-Diphenylhydrazine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,3-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	1,4-Dichlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,5-Trichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4,6-Trichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dichlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dimethylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrophenol	ND	U	1000	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,4-Dinitrotoluene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2,6-Dinitrotoluene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chloronaphthalene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Chlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylnaphthalene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Methylphenol (o-Cresol)	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	2-Nitrophenol	ND	U	160	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3,3'-Dichlorobenzidine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Methylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	3-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4,6-Dinitro-2-methylphenol	ND	U	80	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Bromophenyl phenyl ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloro-3-methylphenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chloroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Chlorophenyl phenyl ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Methylphenol (p-Cresol)	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitroaniline	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	4-Nitrophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthene	ND	U	76	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Acenaphthylene	ND	U	74	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Anthracene	ND	U	60	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)anthracene	ND	U	51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(a)pyrene	ND	U	46	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(b)fluoranthene	ND	U	41	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(g,h,i)perylene	ND	U	59	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzo(k)fluoranthene	ND	U	71	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzoic acid	ND	UJ	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl alcohol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Benzyl butyl phthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethoxy)methane	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroethyl)ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Chloroisopropyl)ether	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Carbazole	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Chrysene	ND	U	54	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenz(a,h)anthracene	ND	U	65	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dibenzofuran	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Diethylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Dimethylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-butylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Di-n-octylphthalate	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluoranthene	ND	U	57	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Fluorene	ND	U	75	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorobutadiene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachlorocyclopentadiene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Hexachloroethane	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	51	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Isophorone	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Naphthalene	ND	U	76	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Nitrobenzene	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodimethylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitroso-di-n-propylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	N-Nitrosodiphenylamine	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pentachlorophenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenanthrene	ND	U	60	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Phenol	ND	U	160	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8270	Pyrene	ND	U	42	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2,4-Trichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,2-Diphenylhydrazine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,3-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	1,4-Dichlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4,5-Trichlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4,6-Trichlorophenol	ND	U	370	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dichlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dimethylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dinitrophenol	ND	U	2300	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,4-Dinitrotoluene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2,6-Dinitrotoluene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Chloronaphthalene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Chlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Methylnaphthalene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Methylphenol (o-Cresol)	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	2-Nitrophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3,3'-Dichlorobenzidine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3-Methylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	3-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4,6-Dinitro-2-methylphenol	ND	U	180	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Bromophenyl phenyl ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chloro-3-methylphenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chloroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Chlorophenyl phenyl ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Methylphenol (p-Cresol)	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Nitroaniline	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	4-Nitrophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Acenaphthene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Acenaphthylene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Anthracene	ND	U	140	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(a)anthracene	120	J	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(a)pyrene	ND	U	100	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(b)fluoranthene	160	J	94	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(g,h,i)perylene	ND	U	130	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzo(k)fluoranthene	170	J	160	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzoic acid	ND	UJ	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzyl alcohol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Benzyl butyl phthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroethoxy)methane	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroethyl)ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Chloroisopropyl)ether	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	bis(2-Ethylhexyl)phthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Carbazole	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Chrysene	140	J	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dibenz(a,h)anthracene	ND	U	150	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dibenzofuran	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Diethylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Dimethylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Di-n-butylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Di-n-octylphthalate	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Fluoranthene	ND	U	130	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Fluorene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorobutadiene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachlorocyclopentadiene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Hexachloroethane	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Indeno(1,2,3-cd)pyrene	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Isophorone	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Naphthalene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Nitrobenzene	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitrosodimethylamine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitroso-di-n-propylamine	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	N-Nitrosodiphenylamine	ND	U	370	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Pentachlorophenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Phenanthrene	ND	U	140	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Phenol	ND	U	370	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8270	Pyrene	180	J	96	ug/Kg

EXPLOSIVE COMPOUNDS

Quality Assurance Results
Soil/Sediment Samples - Explosives
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	110	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	HMX	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	Nitrobenzene	ND	U	100	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	RDX	ND	U	150	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8330	Tetryl	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	1,3,5-Trinitrobenzene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	1,3-Dinitrobenzene	ND	U	110	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,4,6-Trinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,4-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	2-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	3-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	4-Nitrotoluene	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	HMX	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	Nitrobenzene	ND	U	100	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	RDX	ND	U	150	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8330	Tetryl	ND	U	150	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	HMX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	RDX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8330	Tetryl	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	HMX	ND	U	170	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	RDX	ND	U	170	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8330	Tetryl	ND	U	170	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	92	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	HMX	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	Nitrobenzene	ND	U	85	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	RDX	ND	U	130	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8330	Tetryl	ND	U	130	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	1,3,5-Trinitrobenzene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	1,3-Dinitrobenzene	ND	U	100	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,4,6-Trinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,4-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	2-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	3-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	4-Nitrotoluene	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	HMX	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	Nitrobenzene	ND	U	92	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	RDX	ND	U	140	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8330	Tetryl	ND	U	140	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	HMX	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	RDX	ND	U	170	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8330	Tetryl	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	1,3,5-Trinitrobenzene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	1,3-Dinitrobenzene	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,4,6-Trinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,4-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	2-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	3-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	4-Nitrotoluene	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	HMX	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	Nitrobenzene	ND	U	110	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	RDX	ND	U	170	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8330	Tetryl	ND	U	170	ug/Kg

PCBs

Quality Assurance Results
Soil/Sediment Samples - PCBs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.4	ug/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	93		9.4	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.5	ug/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW8081	PCB-1260 (Aroclor 1260)	6100		9.5	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW8081	PCB-1260 (Aroclor 1260)	27		8.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.9	ug/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.9	ug/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	ND	U	9.9	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	10	ug/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	110		10	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.6	ug/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW8081	PCB-1260 (Aroclor 1260)	ND	U	9.6	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1016 (Aroclor 1016)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1221 (Aroclor 1221)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1232 (Aroclor 1232)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1242 (Aroclor 1242)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1248 (Aroclor 1248)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1254 (Aroclor 1254)	ND	U	9.7	ug/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW8081	PCB-1260 (Aroclor 1260)	19		9.7	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1016 (Aroclor 1016)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1221 (Aroclor 1221)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1232 (Aroclor 1232)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1242 (Aroclor 1242)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1248 (Aroclor 1248)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1254 (Aroclor 1254)	ND	U	120	ug/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW8081	PCB-1260 (Aroclor 1260)	3900		120	ug/Kg

METALS

Quality Assurance Results
Soil/Sediment Samples - Metals
Acid Areas, Plumbrook Ordnance Works Site, OH

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Aluminum	13300		11.4	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Antimony	ND	U	1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Arsenic	12.4		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Barium	109		1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Beryllium	0.76	J	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cadmium	0.72	J	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Calcium	14800		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Chromium	19.2		0.46	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cobalt	15.1		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Copper	19.5		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Iron	25700		6.8	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Lead	13.2		0.34	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Magnesium	4320		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Manganese	2400		1.4	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Nickel	48.4		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Potassium	1810		114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Selenium	ND	U	0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Silver	ND	U	0.23	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Sodium	ND	U	114	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Thallium	ND	U	0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Vanadium	27.2		0.68	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW6010	Zinc	64		1.1	mg/Kg
SB16	PBOW-04-SO-AA2-SB-16-B-(3-5)	28-Oct-04	3 - 5	SW7471	Mercury (total)	0.024	J	0.013	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Aluminum	15900		11	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Antimony	ND	U	2.2	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Arsenic	9.3		0.66	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Barium	89.3		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Beryllium	0.81	J	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Cadmium	0.25	J	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Calcium	7390		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Chromium	21.4		0.44	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Cobalt	10.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Copper	20.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Iron	26500		6.6	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Lead	20.5		0.33	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Magnesium	4420		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Manganese	624		0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Nickel	25.2		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Potassium	1580		220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Selenium	ND	U	0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Silver	ND	U	0.22	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Sodium	ND	U	220	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Thallium	ND	U	0.66	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Vanadium	35.4		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW6010	Zinc	69		1.1	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW7471	Mercury (total)	0.032	J	0.015	mg/Kg
SB17	PBOW-04-SO-AA3-SB-17-B-(0.5-1.5)	09-Nov-04	0.5 - 1.5	SW7471	Mercury (total)	0.0302	J	0.0152	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Aluminum	5990		10.7	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Antimony	ND	U	1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Arsenic	5.7		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Barium	20.6		1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Beryllium	0.39	J	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Cadmium	ND	U	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Calcium	1100		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Chromium	8.7		0.43	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Cobalt	6		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Copper	7.8		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Iron	12500		6.4	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Lead	7.7		0.32	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Magnesium	970		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Manganese	403		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Nickel	11.3		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Potassium	444		107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Selenium	ND	U	0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Silver	ND	U	0.21	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Sodium	ND	U	107	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Thallium	ND	U	0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Vanadium	17.5		0.64	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW6010	Zinc	25.1		1.1	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(0.5-1.5)	28-Oct-04	0.5 - 1.5	SW7471	Mercury (total)	0.02	J	0.015	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Aluminum	10200		12.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Antimony	ND	U	1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Arsenic	7.7		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Barium	59.7		1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Beryllium	0.56	J	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cadmium	0.26	J	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Calcium	50000		608	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Chromium	15.5		0.49	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Cobalt	8.5		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Copper	19.5		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Iron	19000		7.3	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Lead	11.9		0.37	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Magnesium	20600		122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Manganese	423		0.73	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Nickel	24.4		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Potassium	1880		122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Selenium	ND	U	0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Silver	ND	U	0.24	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Sodium	140	J	122	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Thallium	ND	U	0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Vanadium	24.1		0.73	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW6010	Zinc	46.2		1.2	mg/Kg
SB18	PBOW-04-SO-AA2-SB-18-B-(3-5)	28-Oct-04	3 - 5	SW7471	Mercury (total)	ND	U	0.017	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Aluminum	20900		11.2	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Antimony	ND	U	2.2	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Arsenic	13.2		0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Barium	125		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Beryllium	1.2		0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cadmium	0.43	J	0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Calcium	6140		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Chromium	31.4		0.45	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cobalt	15.3		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Copper	39.6		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Iron	42100		6.7	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Lead	24.2		0.33	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Magnesium	5770		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Manganese	944		0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Nickel	45.3		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Potassium	2680		223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Selenium	ND	U	0.67	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Silver	ND	U	0.22	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Sodium	ND	U	223	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Thallium	ND	U	0.67	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Vanadium	49		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW6010	Zinc	98.7		1.1	mg/Kg
SB19	PBOW-04-SO-AA3-SB-19-B-(3-5)	09-Nov-04	3 - 5	SW7471	Mercury (total)	0.029	J	0.015	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Aluminum	14700		11.4	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Antimony	ND	U	2.3	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Arsenic	19.3		0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Barium	106		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Beryllium	0.84	J	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Cadmium	0.36	J	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Calcium	41100		456	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Chromium	22		0.46	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Cobalt	12.7		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Copper	28.5		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Iron	32900		6.8	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Lead	13.7		0.34	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Magnesium	15000		228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Manganese	962		0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Nickel	39.2		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Potassium	2560		228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Selenium	ND	U	0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Silver	ND	U	0.23	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Sodium	ND	U	228	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Thallium	ND	U	0.68	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Vanadium	34.4		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW6010	Zinc	74.7		1.1	mg/Kg
SB21	PBOW-04-SO-AA3-SB-21-B-(8-10)	09-Nov-04	8 - 10	SW7471	Mercury (total)	ND	U	0.016	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Aluminum	12000		11.8	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Antimony	ND	U	2.4	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Arsenic	11.7		0.71	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Barium	67.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Beryllium	0.64	J	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cadmium	0.36	J	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Calcium	66700		1180	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Chromium	18.4		0.47	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Cobalt	10.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Copper	20.6		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Iron	25900		7.1	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Lead	12.6		0.36	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Magnesium	18500		237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Manganese	831		0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Nickel	27.3		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Potassium	1700		237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Selenium	ND	U	0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Silver	ND	U	0.24	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Sodium	ND	U	237	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Thallium	ND	U	0.71	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Vanadium	30.5		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW6010	Zinc	54.7		1.2	mg/Kg
SB23	PBOW-04-SO-AA3-SB-23-B-(3-5)	09-Nov-04	3 - 5	SW7471	Mercury (total)	ND	U	0.013	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Aluminum	9300		14	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Antimony	1.5	J	1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Arsenic	3.9		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Barium	62.3		1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Beryllium	0.56	J	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Cadmium	0.58	J	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Calcium	6860		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Chromium	14.2		0.56	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Cobalt	5.6		0.84	mg/Kg

Location	QA Field Sample ID	Date	Depths	Test	Analyte	QA Result		DL	Units
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Copper	21.4		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Iron	15000		8.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Lead	191		0.42	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Magnesium	2660		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Manganese	162		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Nickel	17.9		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Potassium	1240		140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Selenium	1.2	J	0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Silver	ND	U	0.28	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Sodium	ND	U	140	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Thallium	ND	U	0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Vanadium	20.8		0.84	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW6010	Zinc	69.6		1.4	mg/Kg
SWSD-02	PBOW-04-SD-AA2-SWSD-02-B	27-Oct-04	0 - 0	SW7471	Mercury (total)	0.078		0.019	mg/Kg

ATTACHMENT III – QA/QC DATA COMPARISON

VOLATILE ORGANIC COMPOUNDS

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, VOCs,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.2	ug/Kg	ND U	1.27	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.4	ug/Kg	ND U	0.544	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.2	ug/Kg	ND U	0.676	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1-Dichloroethane	ND U	0.3	ug/Kg	ND U	0.74	ug/Kg
SB16	28-Oct-04	3	SW8260	1,1-Dichloroethene	ND U	0.71	ug/Kg	ND U	1.53	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	0.5	ug/Kg	ND U	1.03	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	0.91	ug/Kg	ND U	1.47	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.5	ug/Kg	ND U	0.568	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.3	ug/Kg	ND U	0.902	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichloroethane	ND U	0.2	ug/Kg	ND U	0.657	ug/Kg
SB16	28-Oct-04	3	SW8260	1,2-Dichloropropane	ND U	0.3	ug/Kg	ND U	0.285	ug/Kg
SB16	28-Oct-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.2	ug/Kg	ND U	0.994	ug/Kg
SB16	28-Oct-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.4	ug/Kg	ND U	0.908	ug/Kg
SB16	28-Oct-04	3	SW8260	2-Hexanone	ND U	2	ug/Kg	ND U	0.821	ug/Kg
SB16	28-Oct-04	3	SW8260	Acetone	28 J	7.1	ug/Kg	44.4	1.52	ug/Kg
SB16	28-Oct-04	3	SW8260	Benzene	ND U	1	ug/Kg	ND U	0.798	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromodichloromethane	ND U	0.3	ug/Kg	ND U	0.835	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromoform	ND U	0.3	ug/Kg	ND U	0.921	ug/Kg
SB16	28-Oct-04	3	SW8260	Bromomethane	ND U	0.5	ug/Kg	ND U	1.31	ug/Kg
SB16	28-Oct-04	3	SW8260	Carbon Disulfide	ND U	0.61	ug/Kg	ND U	1.3	ug/Kg
SB16	28-Oct-04	3	SW8260	Carbon tetrachloride	ND U	0.2	ug/Kg	ND U	1.16	ug/Kg
SB16	28-Oct-04	3	SW8260	Chlorobenzene	ND U	0.2	ug/Kg	ND U	0.912	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloroethane	ND U	0.3	ug/Kg	ND U	1.44	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.305	ug/Kg
SB16	28-Oct-04	3	SW8260	Chloromethane	ND U	0.71	ug/Kg	ND U	1.31	ug/Kg
SB16	28-Oct-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.71	ug/Kg	ND U	0.801	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.2	ug/Kg	ND U	0.912	ug/Kg
SB16	28-Oct-04	3	SW8260	Cyclohexane	ND U	0.81	ug/Kg	ND U	1.5	ug/Kg
SB16	28-Oct-04	3	SW8260	Dibromochloromethane	ND U	0.3	ug/Kg	ND U	1.08	ug/Kg
SB16	28-Oct-04	3	SW8260	Dichlorodifluoromethane	ND U	0.4	ug/Kg	ND U	1.62	ug/Kg
SB16	28-Oct-04	3	SW8260	Ethylbenzene	ND U	1	ug/Kg	ND U	0.607	ug/Kg
SB16	28-Oct-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.1	ug/Kg	ND U	1.24	ug/Kg
SB16	28-Oct-04	3	SW8260	Methyl Acetate	ND U	0.91	ug/Kg	ND U	3.18	ug/Kg
SB16	28-Oct-04	3	SW8260	Methylcyclohexane	ND U	0.1	ug/Kg	ND U	0.702	ug/Kg
SB16	28-Oct-04	3	SW8260	Methylene Chloride	ND U	6.1	ug/Kg	ND U	0.897	ug/Kg
SB16	28-Oct-04	3	SW8260	Styrene	ND U	0.5	ug/Kg	ND U	0.834	ug/Kg
SB16	28-Oct-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.5	ug/Kg	ND U	0.851	ug/Kg
SB16	28-Oct-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.3	ug/Kg	ND U	1.36	ug/Kg
SB16	28-Oct-04	3	SW8260	Toluene	ND U	0.2	ug/Kg	ND U	0.716	ug/Kg
SB16	28-Oct-04	3	SW8260	trans-1,2-Dichloroethene	ND U	0.71	ug/Kg	ND U	1.17	ug/Kg
SB16	28-Oct-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.4	ug/Kg	ND U	0.688	ug/Kg
SB16	28-Oct-04	3	SW8260	Trichloroethene (TCE)	ND U	0.2	ug/Kg	ND U	1.19	ug/Kg
SB16	28-Oct-04	3	SW8260	Trichlorofluoromethane	ND U	0.3	ug/Kg	ND U	0.4	ug/Kg
SB16	28-Oct-04	3	SW8260	Vinyl chloride	ND U	0.4	ug/Kg	ND U	1.3	ug/Kg
SB16	28-Oct-04	3	SW8260	Xylenes, Total	ND U	0.5	ug/Kg	ND U	1.02	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,1-Trichloroethane	ND U	0.84	ug/Kg	ND U	1.34	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,2,2-Tetrachloroethane	ND U	2.1	ug/Kg	ND U	0.576	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1,2-Trichloroethane	ND U	1	ug/Kg	ND U	0.715	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1-Dichloroethane	ND U	1	ug/Kg	ND U	0.783	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,1-Dichloroethene	ND U	1	ug/Kg	ND U	1.62	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2,4-Trichlorobenzene	ND U	2.1	ug/Kg	ND U	1.09	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dibromo-3-chloropropane	ND U	2.1	ug/Kg	ND U	1.55	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dibromoethane (EDB)	ND U	1	ug/Kg	ND U	0.601	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dichlorobenzene	ND U	1	ug/Kg	ND U	0.954	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,2-Dichloroethane	ND U	2.1	ug/Kg	ND U	0.694	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8260	1,2-Dichloropropane	ND U	1	ug/Kg	ND U	0.301	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,3-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.05	ug/Kg
SB17	09-Nov-04	0.5	SW8260	1,4-Dichlorobenzene	ND U	1	ug/Kg	ND U	0.961	ug/Kg
SB17	09-Nov-04	0.5	SW8260	2-Hexanone	ND U	10	ug/Kg	ND U	0.868	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Acetone	ND U	10	ug/Kg	129	1.61	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Benzene	ND U	1	ug/Kg	ND U	0.844	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromodichloromethane	ND U	1	ug/Kg	ND U	0.883	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromoform	ND U	2.1	ug/Kg	ND U	0.974	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Bromomethane	ND U	1	ug/Kg	ND U	1.39	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Carbon Disulfide	ND U	1	ug/Kg	ND U	1.38	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Carbon tetrachloride	ND U	0.74	ug/Kg	ND U	1.22	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chlorobenzene	ND U	1	ug/Kg	ND U	0.964	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloroethane	ND U	1	ug/Kg	ND U	1.52	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.322	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Chloromethane	ND U	1	ug/Kg	ND U	1.39	ug/Kg
SB17	09-Nov-04	0.5	SW8260	cis-1,2-Dichloroethene	ND U	1	ug/Kg	ND U	0.847	ug/Kg
SB17	09-Nov-04	0.5	SW8260	cis-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.964	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Cyclohexane	ND U	0.95	ug/Kg	ND U	1.59	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Dibromochloromethane	ND U	1	ug/Kg	ND U	1.14	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Dichlorodifluoromethane	ND U	1	ug/Kg	ND U	1.72	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Ethylbenzene	ND U	1	ug/Kg	ND U	0.642	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Isopropylbenzene (Cumene)	ND U	0.53	ug/Kg	ND U	1.31	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methyl Acetate	ND U	0.53	ug/Kg	ND U	3.37	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methylcyclohexane	ND U	0.53	ug/Kg	1.6 J	0.743	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Methylene Chloride	ND U	3.2	ug/Kg	ND U	0.949	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Styrene	ND U	0.95	ug/Kg	ND U	0.881	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2.1	ug/Kg	ND U	0.9	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Tetrachloroethene (PCE)	ND U	0.95	ug/Kg	ND U	1.44	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Toluene	ND U	1	ug/Kg	1.61 J	0.757	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8260	trans-1,2-Dichloroethene	ND U	2.1	ug/Kg	ND U	1.23	ug/Kg
SB17	09-Nov-04	0.5	SW8260	trans-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.727	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Trichloroethene (TCE)	ND U	1	ug/Kg	ND U	1.26	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Trichlorofluoromethane	ND U	1	ug/Kg	ND U	0.423	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Vinyl chloride	ND U	1	ug/Kg	ND U	1.38	ug/Kg
SB17	09-Nov-04	0.5	SW8260	Xylenes, Total	ND U	0.95	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,1-Trichloroethane	ND U	0.24	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.48	ug/Kg	ND U	0.65	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1,2-Trichloroethane	ND U	0.24	ug/Kg	ND U	0.807	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1-Dichloroethane	ND U	0.36	ug/Kg	ND U	0.884	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,1-Dichloroethene	ND U	0.84	ug/Kg	ND U	1.83	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2,4-Trichlorobenzene	ND U	0.6	ug/Kg	ND U	1.23	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.1	ug/Kg	ND U	1.75	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dibromoethane (EDB)	ND U	0.6	ug/Kg	ND U	0.678	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichlorobenzene	ND U	0.36	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichloroethane	ND U	0.24	ug/Kg	ND U	0.784	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,2-Dichloropropane	ND U	0.36	ug/Kg	ND U	0.34	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,3-Dichlorobenzene	ND U	0.24	ug/Kg	ND U	1.19	ug/Kg
SB18	28-Oct-04	0.5	SW8260	1,4-Dichlorobenzene	ND U	0.48	ug/Kg	ND U	1.08	ug/Kg
SB18	28-Oct-04	0.5	SW8260	2-Hexanone	ND U	2.4	ug/Kg	ND U	0.98	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Acetone	170	8.4	ug/Kg	150	1.82	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Benzene	ND U	1.2	ug/Kg	ND U	0.952	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromodichloromethane	ND U	0.36	ug/Kg	ND U	0.997	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromoform	ND U	0.36	ug/Kg	ND U	1.1	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Bromomethane	ND U	0.6	ug/Kg	ND U	1.57	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Carbon Disulfide	ND U	0.72	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Carbon tetrachloride	ND U	0.24	ug/Kg	ND U	1.38	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chlorobenzene	ND U	0.24	ug/Kg	ND U	1.09	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chloroethane	ND U	0.36	ug/Kg	ND U	1.72	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8260	Chloroform	ND U	1.2	ug/Kg	ND U	0.364	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Chloromethane	ND U	0.84	ug/Kg	ND U	1.57	ug/Kg
SB18	28-Oct-04	0.5	SW8260	cis-1,2-Dichloroethene	ND U	0.84	ug/Kg	ND U	0.956	ug/Kg
SB18	28-Oct-04	0.5	SW8260	cis-1,3-Dichloropropene	ND U	0.24	ug/Kg	ND U	1.09	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Cyclohexane	ND U	0.95	ug/Kg	ND U	1.8	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Dibromochloromethane	ND U	0.36	ug/Kg	ND U	1.28	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Dichlorodifluoromethane	ND U	0.48	ug/Kg	ND U	1.94	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Ethylbenzene	ND U	1.2	ug/Kg	ND U	0.725	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Isopropylbenzene (Cumene)	ND U	0.12	ug/Kg	ND U	1.48	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methyl Acetate	23	1.1	ug/Kg	ND U	3.8	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methylcyclohexane	ND U	0.12	ug/Kg	ND U	0.838	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Methylene Chloride	ND U	7.2	ug/Kg	ND U	1.07	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Styrene	ND U	0.6	ug/Kg	ND U	0.995	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.6	ug/Kg	ND U	1.02	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Tetrachloroethene (PCE)	ND U	0.36	ug/Kg	ND U	1.62	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Toluene	ND U	0.24	ug/Kg	ND U	0.854	ug/Kg
SB18	28-Oct-04	0.5	SW8260	trans-1,2-Dichloroethene	ND U	0.84	ug/Kg	ND U	1.39	ug/Kg
SB18	28-Oct-04	0.5	SW8260	trans-1,3-Dichloropropene	ND U	0.48	ug/Kg	ND U	0.821	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Trichloroethene (TCE)	ND U	0.24	ug/Kg	ND U	1.43	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Trichlorofluoromethane	ND U	0.36	ug/Kg	ND U	0.478	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Vinyl chloride	ND U	0.48	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	0.5	SW8260	Xylenes, Total	ND U	0.6	ug/Kg	ND U	1.22	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.27	ug/Kg	ND U	1.46	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	0.54	ug/Kg	ND U	0.626	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.27	ug/Kg	ND U	0.777	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1-Dichloroethane	ND U	0.4	ug/Kg	ND U	0.852	ug/Kg
SB18	28-Oct-04	3	SW8260	1,1-Dichloroethene	ND U	0.94	ug/Kg	ND U	1.76	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	0.67	ug/Kg	ND U	1.18	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.2	ug/Kg	ND U	1.69	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.67	ug/Kg	ND U	0.653	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.4	ug/Kg	ND U	1.04	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichloroethane	ND U	0.27	ug/Kg	ND U	0.755	ug/Kg
SB18	28-Oct-04	3	SW8260	1,2-Dichloropropane	ND U	0.4	ug/Kg	ND U	0.327	ug/Kg
SB18	28-Oct-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.27	ug/Kg	ND U	1.14	ug/Kg
SB18	28-Oct-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.54	ug/Kg	ND U	1.04	ug/Kg
SB18	28-Oct-04	3	SW8260	2-Hexanone	ND U	2.7	ug/Kg	ND U	0.944	ug/Kg
SB18	28-Oct-04	3	SW8260	Acetone	ND U	9.4	ug/Kg	13	1.75	ug/Kg
SB18	28-Oct-04	3	SW8260	Benzene	7.2	1.3	ug/Kg	5.99	0.918	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromodichloromethane	ND U	0.4	ug/Kg	ND U	0.961	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromoform	ND U	0.4	ug/Kg	ND U	1.06	ug/Kg
SB18	28-Oct-04	3	SW8260	Bromomethane	ND U	0.67	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	3	SW8260	Carbon Disulfide	ND U	0.81	ug/Kg	ND U	1.5	ug/Kg
SB18	28-Oct-04	3	SW8260	Carbon tetrachloride	ND U	0.27	ug/Kg	ND U	1.33	ug/Kg
SB18	28-Oct-04	3	SW8260	Chlorobenzene	ND U	0.27	ug/Kg	ND U	1.05	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloroethane	ND U	0.4	ug/Kg	ND U	1.66	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloroform	ND U	1.3	ug/Kg	ND U	0.35	ug/Kg
SB18	28-Oct-04	3	SW8260	Chloromethane	ND U	0.94	ug/Kg	ND U	1.51	ug/Kg
SB18	28-Oct-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.94	ug/Kg	ND U	0.921	ug/Kg
SB18	28-Oct-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.27	ug/Kg	ND U	1.05	ug/Kg
SB18	28-Oct-04	3	SW8260	Cyclohexane	13	1.1	ug/Kg	9.21	1.73	ug/Kg
SB18	28-Oct-04	3	SW8260	Dibromochloromethane	ND U	0.4	ug/Kg	ND U	1.24	ug/Kg
SB18	28-Oct-04	3	SW8260	Dichlorodifluoromethane	ND U	0.54	ug/Kg	ND U	1.87	ug/Kg
SB18	28-Oct-04	3	SW8260	Ethylbenzene	3.5 J	1.3	ug/Kg	3.18 J	0.698	ug/Kg
SB18	28-Oct-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.13	ug/Kg	ND U	1.43	ug/Kg
SB18	28-Oct-04	3	SW8260	Methyl Acetate	ND U	1.2	ug/Kg	ND U	3.66	ug/Kg
SB18	28-Oct-04	3	SW8260	Methylcyclohexane	19	0.13	ug/Kg	12.3	0.807	ug/Kg
SB18	28-Oct-04	3	SW8260	Methylene Chloride	ND U	8.1	ug/Kg	ND U	1.03	ug/Kg
SB18	28-Oct-04	3	SW8260	Styrene	ND U	0.67	ug/Kg	ND U	0.958	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	0.67	ug/Kg	ND U	0.978	ug/Kg
SB18	28-Oct-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.4	ug/Kg	ND U	1.56	ug/Kg
SB18	28-Oct-04	3	SW8260	Toluene	16	0.27	ug/Kg	13.2	0.823	ug/Kg
SB18	28-Oct-04	3	SW8260	trans-1,2-Dichloroethene	ND U	0.94	ug/Kg	ND U	1.34	ug/Kg
SB18	28-Oct-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.54	ug/Kg	ND U	0.791	ug/Kg
SB18	28-Oct-04	3	SW8260	Trichloroethene (TCE)	ND U	0.27	ug/Kg	ND U	1.37	ug/Kg
SB18	28-Oct-04	3	SW8260	Trichlorofluoromethane	ND U	0.4	ug/Kg	ND U	0.46	ug/Kg
SB18	28-Oct-04	3	SW8260	Vinyl chloride	ND U	0.54	ug/Kg	ND U	1.5	ug/Kg
SB18	28-Oct-04	3	SW8260	Xylenes, Total	8.4	0.67	ug/Kg	10.4	1.17	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.78	ug/Kg	ND U	1.39	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	2	ug/Kg	ND U	0.598	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1,2-Trichloroethane	ND U	0.98	ug/Kg	ND U	0.742	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1-Dichloroethane	ND U	0.98	ug/Kg	ND U	0.813	ug/Kg
SB19	09-Nov-04	3	SW8260	1,1-Dichloroethene	ND U	0.98	ug/Kg	ND U	1.68	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	2	ug/Kg	ND U	1.13	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	2	ug/Kg	ND U	1.61	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	0.98	ug/Kg	ND U	0.624	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	0.991	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichloroethane	ND U	2	ug/Kg	ND U	0.721	ug/Kg
SB19	09-Nov-04	3	SW8260	1,2-Dichloropropane	ND U	0.98	ug/Kg	ND U	0.312	ug/Kg
SB19	09-Nov-04	3	SW8260	1,3-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	1.09	ug/Kg
SB19	09-Nov-04	3	SW8260	1,4-Dichlorobenzene	ND U	0.98	ug/Kg	ND U	0.998	ug/Kg
SB19	09-Nov-04	3	SW8260	2-Hexanone	ND U	9.8	ug/Kg	ND U	0.901	ug/Kg
SB19	09-Nov-04	3	SW8260	Acetone	ND U	9.8	ug/Kg	109	1.67	ug/Kg
SB19	09-Nov-04	3	SW8260	Benzene	ND U	0.98	ug/Kg	ND U	0.876	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromodichloromethane	ND U	0.98	ug/Kg	ND U	0.917	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromoform	ND U	2	ug/Kg	ND U	1.01	ug/Kg
SB19	09-Nov-04	3	SW8260	Bromomethane	ND U	0.98	ug/Kg	ND U	1.44	ug/Kg
SB19	09-Nov-04	3	SW8260	Carbon Disulfide	ND U	0.98	ug/Kg	ND U	1.43	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8260	Carbon tetrachloride	ND U	0.68	ug/Kg	ND U	1.27	ug/Kg
SB19	09-Nov-04	3	SW8260	Chlorobenzene	ND U	0.98	ug/Kg	ND U	1	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloroethane	ND U	0.98	ug/Kg	ND U	1.58	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloroform	ND U	0.98	ug/Kg	ND U	0.335	ug/Kg
SB19	09-Nov-04	3	SW8260	Chloromethane	ND U	0.98	ug/Kg	ND U	1.44	ug/Kg
SB19	09-Nov-04	3	SW8260	cis-1,2-Dichloroethene	ND U	0.98	ug/Kg	ND U	0.879	ug/Kg
SB19	09-Nov-04	3	SW8260	cis-1,3-Dichloropropene	ND U	0.98	ug/Kg	ND U	1	ug/Kg
SB19	09-Nov-04	3	SW8260	Cyclohexane	ND U	0.88	ug/Kg	ND U	1.65	ug/Kg
SB19	09-Nov-04	3	SW8260	Dibromochloromethane	ND U	0.98	ug/Kg	ND U	1.18	ug/Kg
SB19	09-Nov-04	3	SW8260	Dichlorodifluoromethane	ND U	0.98	ug/Kg	ND U	1.78	ug/Kg
SB19	09-Nov-04	3	SW8260	Ethylbenzene	ND U	0.98	ug/Kg	ND U	0.667	ug/Kg
SB19	09-Nov-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.49	ug/Kg	ND U	1.36	ug/Kg
SB19	09-Nov-04	3	SW8260	Methyl Acetate	ND U	0.49	ug/Kg	19.3	3.5	ug/Kg
SB19	09-Nov-04	3	SW8260	Methylcyclohexane	ND U	0.49	ug/Kg	ND U	0.771	ug/Kg
SB19	09-Nov-04	3	SW8260	Methylene Chloride	ND U	2.9	ug/Kg	ND U	0.986	ug/Kg
SB19	09-Nov-04	3	SW8260	Styrene	ND U	0.88	ug/Kg	ND U	0.915	ug/Kg
SB19	09-Nov-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2	ug/Kg	ND U	0.934	ug/Kg
SB19	09-Nov-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.88	ug/Kg	ND U	1.49	ug/Kg
SB19	09-Nov-04	3	SW8260	Toluene	ND U	0.98	ug/Kg	ND U	0.786	ug/Kg
SB19	09-Nov-04	3	SW8260	trans-1,2-Dichloroethene	ND U	2	ug/Kg	ND U	1.28	ug/Kg
SB19	09-Nov-04	3	SW8260	trans-1,3-Dichloropropene	ND U	0.98	ug/Kg	ND U	0.755	ug/Kg
SB19	09-Nov-04	3	SW8260	Trichloroethene (TCE)	ND U	0.98	ug/Kg	ND U	1.31	ug/Kg
SB19	09-Nov-04	3	SW8260	Trichlorofluoromethane	ND U	0.98	ug/Kg	ND U	0.44	ug/Kg
SB19	09-Nov-04	3	SW8260	Vinyl chloride	ND U	0.98	ug/Kg	ND U	1.43	ug/Kg
SB19	09-Nov-04	3	SW8260	Xylenes, Total	ND U	0.88	ug/Kg	ND U	1.12	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,1-Trichloroethane	ND U	0.78	ug/Kg	ND U	1.31	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,2,2-Tetrachloroethane	ND U	1.9	ug/Kg	ND U	0.562	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1,2-Trichloroethane	ND U	0.97	ug/Kg	ND U	0.697	ug/Kg
SB21	09-Nov-04	8	SW8260	1,1-Dichloroethane	ND U	0.97	ug/Kg	ND U	0.764	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8260	1,1-Dichloroethene	ND U	0.97	ug/Kg	ND U	1.58	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2,4-Trichlorobenzene	ND U	1.9	ug/Kg	ND U	1.06	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dibromo-3-chloropropane	ND U	1.9	ug/Kg	ND U	1.51	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dibromoethane (EDB)	ND U	0.97	ug/Kg	ND U	0.586	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	0.93	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichloroethane	ND U	1.9	ug/Kg	ND U	0.677	ug/Kg
SB21	09-Nov-04	8	SW8260	1,2-Dichloropropane	ND U	0.97	ug/Kg	ND U	0.294	ug/Kg
SB21	09-Nov-04	8	SW8260	1,3-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	1.03	ug/Kg
SB21	09-Nov-04	8	SW8260	1,4-Dichlorobenzene	ND U	0.97	ug/Kg	ND U	0.937	ug/Kg
SB21	09-Nov-04	8	SW8260	2-Hexanone	ND U	9.7	ug/Kg	ND U	0.847	ug/Kg
SB21	09-Nov-04	8	SW8260	Acetone	ND U	9.7	ug/Kg	29.2	1.57	ug/Kg
SB21	09-Nov-04	8	SW8260	Benzene	ND U	0.97	ug/Kg	ND U	0.823	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromodichloromethane	ND U	0.97	ug/Kg	ND U	0.862	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromoform	ND U	1.9	ug/Kg	ND U	0.95	ug/Kg
SB21	09-Nov-04	8	SW8260	Bromomethane	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Carbon Disulfide	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Carbon tetrachloride	ND U	0.68	ug/Kg	ND U	1.19	ug/Kg
SB21	09-Nov-04	8	SW8260	Chlorobenzene	ND U	0.97	ug/Kg	ND U	0.941	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloroethane	ND U	0.97	ug/Kg	ND U	1.49	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloroform	ND U	0.97	ug/Kg	ND U	0.314	ug/Kg
SB21	09-Nov-04	8	SW8260	Chloromethane	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	cis-1,2-Dichloroethene	ND U	0.97	ug/Kg	ND U	0.826	ug/Kg
SB21	09-Nov-04	8	SW8260	cis-1,3-Dichloropropene	ND U	0.97	ug/Kg	ND U	0.941	ug/Kg
SB21	09-Nov-04	8	SW8260	Cyclohexane	ND U	0.87	ug/Kg	ND U	1.55	ug/Kg
SB21	09-Nov-04	8	SW8260	Dibromochloromethane	ND U	0.97	ug/Kg	ND U	1.11	ug/Kg
SB21	09-Nov-04	8	SW8260	Dichlorodifluoromethane	ND U	0.97	ug/Kg	ND U	1.67	ug/Kg
SB21	09-Nov-04	8	SW8260	Ethylbenzene	ND U	0.97	ug/Kg	ND U	0.627	ug/Kg
SB21	09-Nov-04	8	SW8260	Isopropylbenzene (Cumene)	ND U	0.48	ug/Kg	ND U	1.28	ug/Kg
SB21	09-Nov-04	8	SW8260	Methyl Acetate	ND U	0.48	ug/Kg	ND U	3.28	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8260	Methylcyclohexane	ND U	0.48	ug/Kg	ND U	0.724	ug/Kg
SB21	09-Nov-04	8	SW8260	Methylene Chloride	ND U	2.9	ug/Kg	ND U	0.926	ug/Kg
SB21	09-Nov-04	8	SW8260	Styrene	ND U	0.87	ug/Kg	ND U	0.86	ug/Kg
SB21	09-Nov-04	8	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	1.9	ug/Kg	ND U	0.878	ug/Kg
SB21	09-Nov-04	8	SW8260	Tetrachloroethene (PCE)	ND U	0.87	ug/Kg	ND U	1.4	ug/Kg
SB21	09-Nov-04	8	SW8260	Toluene	ND U	0.97	ug/Kg	ND U	0.739	ug/Kg
SB21	09-Nov-04	8	SW8260	trans-1,2-Dichloroethene	ND U	1.9	ug/Kg	ND U	1.2	ug/Kg
SB21	09-Nov-04	8	SW8260	trans-1,3-Dichloropropene	ND U	0.97	ug/Kg	ND U	0.709	ug/Kg
SB21	09-Nov-04	8	SW8260	Trichloroethene (TCE)	ND U	0.97	ug/Kg	ND U	1.23	ug/Kg
SB21	09-Nov-04	8	SW8260	Trichlorofluoromethane	ND U	0.97	ug/Kg	ND U	0.413	ug/Kg
SB21	09-Nov-04	8	SW8260	Vinyl chloride	ND U	0.97	ug/Kg	ND U	1.35	ug/Kg
SB21	09-Nov-04	8	SW8260	Xylenes, Total	ND U	0.87	ug/Kg	ND U	1.05	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,1-Trichloroethane	ND U	0.82	ug/Kg	ND U	1.48	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,2,2-Tetrachloroethane	ND U	2	ug/Kg	ND U	0.637	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1,2-Trichloroethane	ND U	1	ug/Kg	ND U	0.791	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1-Dichloroethane	ND U	1	ug/Kg	ND U	0.867	ug/Kg
SB23	09-Nov-04	3	SW8260	1,1-Dichloroethene	ND U	1	ug/Kg	ND U	1.79	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2,4-Trichlorobenzene	ND U	2	ug/Kg	ND U	1.21	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dibromo-3-chloropropane	ND U	2	ug/Kg	ND U	1.72	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dibromoethane (EDB)	ND U	1	ug/Kg	ND U	0.665	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.06	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichloroethane	ND U	2	ug/Kg	ND U	0.769	ug/Kg
SB23	09-Nov-04	3	SW8260	1,2-Dichloropropane	ND U	1	ug/Kg	ND U	0.333	ug/Kg
SB23	09-Nov-04	3	SW8260	1,3-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.16	ug/Kg
SB23	09-Nov-04	3	SW8260	1,4-Dichlorobenzene	ND U	1	ug/Kg	ND U	1.06	ug/Kg
SB23	09-Nov-04	3	SW8260	2-Hexanone	ND U	10	ug/Kg	ND U	0.961	ug/Kg
SB23	09-Nov-04	3	SW8260	Acetone	ND U	10	ug/Kg	56.4	1.78	ug/Kg
SB23	09-Nov-04	3	SW8260	Benzene	2.6 J	1	ug/Kg	8.95	0.934	ug/Kg
SB23	09-Nov-04	3	SW8260	Bromodichloromethane	ND U	1	ug/Kg	ND U	0.978	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8260	Bromoform	ND U	2	ug/Kg	ND U	1.08	ug/Kg
SB23	09-Nov-04	3	SW8260	Bromomethane	ND U	1	ug/Kg	ND U	1.54	ug/Kg
SB23	09-Nov-04	3	SW8260	Carbon Disulfide	ND U	1	ug/Kg	ND U	1.53	ug/Kg
SB23	09-Nov-04	3	SW8260	Carbon tetrachloride	ND U	0.71	ug/Kg	ND U	1.36	ug/Kg
SB23	09-Nov-04	3	SW8260	Chlorobenzene	ND U	1	ug/Kg	ND U	1.07	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloroethane	ND U	1	ug/Kg	ND U	1.69	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloroform	ND U	1	ug/Kg	ND U	0.357	ug/Kg
SB23	09-Nov-04	3	SW8260	Chloromethane	ND U	1	ug/Kg	ND U	1.54	ug/Kg
SB23	09-Nov-04	3	SW8260	cis-1,2-Dichloroethene	ND U	1	ug/Kg	ND U	0.937	ug/Kg
SB23	09-Nov-04	3	SW8260	cis-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	1.07	ug/Kg
SB23	09-Nov-04	3	SW8260	Cyclohexane	6.1	0.92	ug/Kg	10.6	1.76	ug/Kg
SB23	09-Nov-04	3	SW8260	Dibromochloromethane	ND U	1	ug/Kg	ND U	1.26	ug/Kg
SB23	09-Nov-04	3	SW8260	Dichlorodifluoromethane	ND U	1	ug/Kg	ND U	1.9	ug/Kg
SB23	09-Nov-04	3	SW8260	Ethylbenzene	3.2 J	1	ug/Kg	5.71	0.711	ug/Kg
SB23	09-Nov-04	3	SW8260	Isopropylbenzene (Cumene)	ND U	0.51	ug/Kg	ND U	1.45	ug/Kg
SB23	09-Nov-04	3	SW8260	Methyl Acetate	ND U	0.51	ug/Kg	ND U	3.73	ug/Kg
SB23	09-Nov-04	3	SW8260	Methylcyclohexane	7.8	0.51	ug/Kg	10.9	0.822	ug/Kg
SB23	09-Nov-04	3	SW8260	Methylene Chloride	ND U	3	ug/Kg	ND U	1.05	ug/Kg
SB23	09-Nov-04	3	SW8260	Styrene	ND U	0.92	ug/Kg	ND U	0.976	ug/Kg
SB23	09-Nov-04	3	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	2	ug/Kg	ND U	0.996	ug/Kg
SB23	09-Nov-04	3	SW8260	Tetrachloroethene (PCE)	ND U	0.92	ug/Kg	ND U	1.59	ug/Kg
SB23	09-Nov-04	3	SW8260	Toluene	10	1	ug/Kg	22.1	0.838	ug/Kg
SB23	09-Nov-04	3	SW8260	trans-1,2-Dichloroethene	ND U	2	ug/Kg	ND U	1.37	ug/Kg
SB23	09-Nov-04	3	SW8260	trans-1,3-Dichloropropene	ND U	1	ug/Kg	ND U	0.805	ug/Kg
SB23	09-Nov-04	3	SW8260	Trichloroethene (TCE)	ND U	1	ug/Kg	ND U	1.4	ug/Kg
SB23	09-Nov-04	3	SW8260	Trichlorofluoromethane	ND U	1	ug/Kg	ND U	0.469	ug/Kg
SB23	09-Nov-04	3	SW8260	Vinyl chloride	ND U	1	ug/Kg	ND U	1.53	ug/Kg
SB23	09-Nov-04	3	SW8260	Xylenes, Total	7.1	0.92	ug/Kg	14.5	1.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1,1-Trichloroethane	ND U	1.3	ug/Kg	ND U	2.69	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8260	1,1,2,2-Tetrachloroethane	ND U	3.3	ug/Kg	ND U	1.15	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1,2-Trichloroethane	ND U	1.6	ug/Kg	ND U	1.43	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1-Dichloroethane	ND U	1.6	ug/Kg	ND U	1.57	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,1-Dichloroethene	ND U	1.6	ug/Kg	ND U	3.25	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2,4-Trichlorobenzene	ND U	3.3	ug/Kg	ND U	2.19	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dibromo-3-chloropropane	ND U	3.3	ug/Kg	ND U	3.11	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dibromoethane (EDB)	ND U	1.6	ug/Kg	ND U	1.21	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	1.91	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichloroethane	ND U	3.3	ug/Kg	ND U	1.39	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,2-Dichloropropane	ND U	1.6	ug/Kg	ND U	0.604	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,3-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	2.11	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	1,4-Dichlorobenzene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	2-Hexanone	ND U	16	ug/Kg	ND U	1.74	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Acetone	ND U	16	ug/Kg	439	3.23	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Benzene	ND U	1.6	ug/Kg	ND U	1.69	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromodichloromethane	ND U	1.6	ug/Kg	ND U	1.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromoform	ND U	3.3	ug/Kg	ND U	1.95	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Bromomethane	ND U	1.6	ug/Kg	ND U	2.79	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Carbon Disulfide	ND U	1.6	ug/Kg	ND U	2.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Carbon tetrachloride	ND U	1.2	ug/Kg	ND U	2.46	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chlorobenzene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloroethane	ND U	1.6	ug/Kg	ND U	3.06	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloroform	ND U	1.6	ug/Kg	ND U	0.646	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Chloromethane	ND U	1.6	ug/Kg	ND U	2.79	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	cis-1,2-Dichloroethene	ND U	1.6	ug/Kg	ND U	1.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	cis-1,3-Dichloropropene	ND U	1.6	ug/Kg	ND U	1.93	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Cyclohexane	ND U	1.5	ug/Kg	ND U	3.19	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Dibromochloromethane	ND U	1.6	ug/Kg	ND U	2.28	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Dichlorodifluoromethane	ND U	1.6	ug/Kg	ND U	3.44	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8260	Ethylbenzene	ND U	1.6	ug/Kg	ND U	1.29	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Isopropylbenzene (Cumene)	ND U	0.83	ug/Kg	ND U	2.63	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methyl Acetate	ND U	0.83	ug/Kg	19.9	6.75	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methylcyclohexane	ND U	0.83	ug/Kg	ND U	1.49	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Methylene Chloride	ND U	5	ug/Kg	ND U	1.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Styrene	ND U	1.5	ug/Kg	ND U	1.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Tert-Butyl Methyl Ether (MTBE)	ND U	3.3	ug/Kg	ND U	1.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Tetrachloroethene (PCE)	ND U	1.5	ug/Kg	ND U	2.88	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Toluene	ND U	1.6	ug/Kg	ND U	1.52	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	trans-1,2-Dichloroethene	ND U	3.3	ug/Kg	ND U	2.48	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	trans-1,3-Dichloropropene	ND U	1.6	ug/Kg	ND U	1.46	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Trichloroethene (TCE)	ND U	1.6	ug/Kg	ND U	2.53	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Trichlorofluoromethane	ND U	1.6	ug/Kg	ND U	0.849	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Vinyl chloride	ND U	1.6	ug/Kg	ND U	2.77	ug/Kg
SWSD-02	27-Oct-04	0	SW8260	Xylenes, Total	ND U	1.5	ug/Kg	2.62 J	2.17	ug/Kg

SEMIVOLATILE ORGANIC COMPOUNDS

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, SVOCs,
Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	51.4	ug/Kg
SB16	28-Oct-04	3	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	51	ug/Kg
SB16	28-Oct-04	3	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	34.8	ug/Kg
SB16	28-Oct-04	3	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	304	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	531	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	128	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	154	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dinitrophenol	ND U	970	ug/Kg	ND U	412	ug/Kg
SB16	28-Oct-04	3	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	120	ug/Kg
SB16	28-Oct-04	3	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	162	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.8	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	243	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	211	ug/Kg
SB16	28-Oct-04	3	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	312	ug/Kg
SB16	28-Oct-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	704	ug/Kg
SB16	28-Oct-04	3	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	229	ug/Kg
SB16	28-Oct-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	77	ug/Kg	ND U	209	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	158	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	427	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	197	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	293	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	95.2	ug/Kg
SB16	28-Oct-04	3	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	229	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	154	ug/Kg
SB16	28-Oct-04	3	SW8270	Acenaphthene	ND U	73	ug/Kg	ND U	13.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Acenaphthylene	ND U	71	ug/Kg	ND U	41.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Anthracene	ND U	58	ug/Kg	ND U	30.4	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(a)anthracene	ND U	49	ug/Kg	ND U	21.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	29.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(b)fluoranthene	ND U	40	ug/Kg	ND U	28.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(g,h,i)perylene	ND U	57	ug/Kg	ND U	26.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	32.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	473	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	536	ug/Kg
SB16	28-Oct-04	3	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	147	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	38.4	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	121	ug/Kg
SB16	28-Oct-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	377	ug/Kg
SB16	28-Oct-04	3	SW8270	Carbazole	ND U	150	ug/Kg	ND U	49.5	ug/Kg
SB16	28-Oct-04	3	SW8270	Chrysene	ND U	52	ug/Kg	ND U	17.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Dibenz(a,h)anthracene	ND U	63	ug/Kg	ND U	22.6	ug/Kg
SB16	28-Oct-04	3	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	277	ug/Kg
SB16	28-Oct-04	3	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	414	ug/Kg
SB16	28-Oct-04	3	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	236	ug/Kg
SB16	28-Oct-04	3	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	461	ug/Kg
SB16	28-Oct-04	3	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	92.5	ug/Kg
SB16	28-Oct-04	3	SW8270	Fluoranthene	ND U	55	ug/Kg	ND U	18.8	ug/Kg
SB16	28-Oct-04	3	SW8270	Fluorene	ND U	72	ug/Kg	ND U	11	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	94.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.7	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	151	ug/Kg
SB16	28-Oct-04	3	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	58.8	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	49	ug/Kg	ND U	28.3	ug/Kg
SB16	28-Oct-04	3	SW8270	Isophorone	ND U	150	ug/Kg	ND U	21.9	ug/Kg
SB16	28-Oct-04	3	SW8270	Naphthalene	ND U	73	ug/Kg	ND U	10.8	ug/Kg
SB16	28-Oct-04	3	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	61.6	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	57.1	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	98.6	ug/Kg
SB16	28-Oct-04	3	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	97.2	ug/Kg
SB16	28-Oct-04	3	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	240	ug/Kg
SB16	28-Oct-04	3	SW8270	Phenanthrene	ND U	58	ug/Kg	ND U	21.1	ug/Kg
SB16	28-Oct-04	3	SW8270	Phenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB16	28-Oct-04	3	SW8270	Pyrene	ND U	41	ug/Kg	ND U	16.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	50.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	50.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	34.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	37.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	300	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	524	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	152	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dinitrophenol	ND U	960	ug/Kg	ND U	407	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	118	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	160	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	37.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	116	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	240	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	208	ug/Kg
SB17	09-Nov-04	0.5	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	308	ug/Kg
SB17	09-Nov-04	0.5	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	695	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	227	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	206	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	156	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	421	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	195	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	290	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	94	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	227	ug/Kg
SB17	09-Nov-04	0.5	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	152	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	41.1	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Anthracene	ND U	57	ug/Kg	ND U	30	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	21.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(a)pyrene	46 J	44	ug/Kg	ND U	29.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(b)fluoranthene	70 J	39	ug/Kg	59.3 J	27.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	26.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	31.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	467	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	530	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	145	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	37.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	119	ug/Kg
SB17	09-Nov-04	0.5	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	372	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Carbazole	ND U	150	ug/Kg	ND U	48.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Chrysene	54 J	52	ug/Kg	ND U	17.1	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	22.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	274	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	409	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	233	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	455	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	91.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Fluoranthene	76 J	54	ug/Kg	ND U	18.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Fluorene	ND U	71	ug/Kg	ND U	10.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	92.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	149	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	58	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	27.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Isophorone	ND U	150	ug/Kg	ND U	21.6	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	10.7	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	60.9	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	56.3	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	97.4	ug/Kg
SB17	09-Nov-04	0.5	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	96	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	237	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	20.8	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Phenol	ND U	150	ug/Kg	ND U	124	ug/Kg
SB17	09-Nov-04	0.5	SW8270	Pyrene	71 J	40	ug/Kg	ND U	16.1	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	48.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	48	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	32.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	35.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	285	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	499	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	120	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	145	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dinitrophenol	ND U	920	ug/Kg	ND U	387	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	113	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	152	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	35.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	111	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	28	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	229	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	199	ug/Kg
SB18	28-Oct-04	0.5	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	293	ug/Kg
SB18	28-Oct-04	0.5	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	662	ug/Kg
SB18	28-Oct-04	0.5	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	216	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4,6-Dinitro-2-methylphenol	ND U	73	ug/Kg	ND U	196	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	148	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	401	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	186	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	276	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	89.5	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	216	ug/Kg
SB18	28-Oct-04	0.5	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	145	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Acenaphthene	ND U	69	ug/Kg	ND U	12.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Acenaphthylene	ND U	67	ug/Kg	ND U	39.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Anthracene	ND U	55	ug/Kg	ND U	28.5	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(a)anthracene	ND U	46	ug/Kg	ND U	20.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(a)pyrene	ND U	42	ug/Kg	ND U	27.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(b)fluoranthene	ND U	37	ug/Kg	ND U	26.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(g,h,i)perylene	ND U	54	ug/Kg	ND U	25.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzo(k)fluoranthene	ND U	65	ug/Kg	ND U	30.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	444	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	504	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	138	ug/Kg
SB18	28-Oct-04	0.5	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	36.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	114	ug/Kg
SB18	28-Oct-04	0.5	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	354	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Carbazole	ND U	150	ug/Kg	ND U	46.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Chrysene	ND U	50	ug/Kg	ND U	16.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dibenz(a,h)anthracene	ND U	59	ug/Kg	ND U	21.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	261	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	390	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	222	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	434	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	86.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Fluoranthene	ND U	52	ug/Kg	ND U	17.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Fluorene	ND U	68	ug/Kg	ND U	10.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	88.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	28.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	142	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	55.3	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Indeno(1,2,3-cd)pyrene	ND U	46	ug/Kg	ND U	26.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Isophorone	ND U	150	ug/Kg	ND U	20.6	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Naphthalene	ND U	69	ug/Kg	ND U	10.2	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	58	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	53.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	92.7	ug/Kg
SB18	28-Oct-04	0.5	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	91.4	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	225	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Phenanthrene	ND U	55	ug/Kg	ND U	19.9	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Phenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB18	28-Oct-04	0.5	SW8270	Pyrene	ND U	38	ug/Kg	ND U	15.3	ug/Kg
SB18	28-Oct-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	54.1	ug/Kg
SB18	28-Oct-04	3	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	53.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	36.7	ug/Kg
SB18	28-Oct-04	3	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	39.9	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	320	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	559	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	135	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	162	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dinitrophenol	ND U	960	ug/Kg	ND U	434	ug/Kg
SB18	28-Oct-04	3	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	126	ug/Kg
SB18	28-Oct-04	3	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	171	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	39.9	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	124	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	31.4	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	256	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	222	ug/Kg
SB18	28-Oct-04	3	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	328	ug/Kg
SB18	28-Oct-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	742	ug/Kg
SB18	28-Oct-04	3	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	242	ug/Kg
SB18	28-Oct-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	220	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	166	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	450	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	208	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	309	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	100	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	242	ug/Kg
SB18	28-Oct-04	3	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	162	ug/Kg
SB18	28-Oct-04	3	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	43.9	ug/Kg
SB18	28-Oct-04	3	SW8270	Anthracene	ND U	57	ug/Kg	ND U	32	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	23.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	31.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(b)fluoranthene	ND U	39	ug/Kg	ND U	29.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	28.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	33.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	498	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	565	ug/Kg
SB18	28-Oct-04	3	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	155	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	40.4	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	127	ug/Kg
SB18	28-Oct-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	397	ug/Kg
SB18	28-Oct-04	3	SW8270	Carbazole	ND U	150	ug/Kg	ND U	52.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Chrysene	ND U	52	ug/Kg	ND U	18.3	ug/Kg
SB18	28-Oct-04	3	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	23.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	292	ug/Kg
SB18	28-Oct-04	3	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	436	ug/Kg
SB18	28-Oct-04	3	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	249	ug/Kg
SB18	28-Oct-04	3	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	486	ug/Kg
SB18	28-Oct-04	3	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	97.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Fluoranthene	ND U	54	ug/Kg	ND U	19.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Fluorene	ND U	71	ug/Kg	ND U	11.6	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	99	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	32.3	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	159	ug/Kg
SB18	28-Oct-04	3	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	61.9	ug/Kg
SB18	28-Oct-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	29.8	ug/Kg
SB18	28-Oct-04	3	SW8270	Isophorone	ND U	150	ug/Kg	ND U	23.1	ug/Kg
SB18	28-Oct-04	3	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	11.4	ug/Kg
SB18	28-Oct-04	3	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	64.9	ug/Kg
SB18	28-Oct-04	3	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	60.1	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	104	ug/Kg
SB18	28-Oct-04	3	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	102	ug/Kg
SB18	28-Oct-04	3	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	252	ug/Kg
SB18	28-Oct-04	3	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	22.2	ug/Kg
SB18	28-Oct-04	3	SW8270	Phenol	ND U	150	ug/Kg	ND U	132	ug/Kg
SB18	28-Oct-04	3	SW8270	Pyrene	ND U	40	ug/Kg	ND U	17.2	ug/Kg
SB19	09-Nov-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	160	ug/Kg	ND U	52.4	ug/Kg
SB19	09-Nov-04	3	SW8270	1,2-Dichlorobenzene	ND U	160	ug/Kg	ND U	52.1	ug/Kg
SB19	09-Nov-04	3	SW8270	1,3-Dichlorobenzene	ND U	160	ug/Kg	ND U	35.5	ug/Kg
SB19	09-Nov-04	3	SW8270	1,4-Dichlorobenzene	ND U	160	ug/Kg	ND U	38.7	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4,5-Trichlorophenol	ND U	160	ug/Kg	ND U	310	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4,6-Trichlorophenol	ND U	160	ug/Kg	ND U	542	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dichlorophenol	ND U	160	ug/Kg	ND U	131	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dimethylphenol	ND U	160	ug/Kg	ND U	157	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dinitrophenol	ND U	990	ug/Kg	ND U	421	ug/Kg
SB19	09-Nov-04	3	SW8270	2,4-Dinitrotoluene	ND U	160	ug/Kg	ND U	122	ug/Kg
SB19	09-Nov-04	3	SW8270	2,6-Dinitrotoluene	ND U	160	ug/Kg	ND U	165	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Chloronaphthalene	ND U	160	ug/Kg	ND U	38.7	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Chlorophenol	ND U	160	ug/Kg	ND U	120	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Methylnaphthalene	ND U	160	ug/Kg	ND U	30.4	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	160	ug/Kg	ND U	248	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Nitroaniline	ND U	160	ug/Kg	ND U	216	ug/Kg
SB19	09-Nov-04	3	SW8270	2-Nitrophenol	ND U	160	ug/Kg	ND U	318	ug/Kg
SB19	09-Nov-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	160	ug/Kg	ND U	719	ug/Kg
SB19	09-Nov-04	3	SW8270	3-Nitroaniline	ND U	160	ug/Kg	ND U	234	ug/Kg
SB19	09-Nov-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	79	ug/Kg	ND U	213	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	160	ug/Kg	ND U	161	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Chloro-3-methylphenol	ND U	160	ug/Kg	ND U	436	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Chloroaniline	ND U	160	ug/Kg	ND U	202	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	160	ug/Kg	ND U	299	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	160	ug/Kg	ND U	97.2	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Nitroaniline	ND U	160	ug/Kg	ND U	234	ug/Kg
SB19	09-Nov-04	3	SW8270	4-Nitrophenol	ND U	160	ug/Kg	ND U	157	ug/Kg
SB19	09-Nov-04	3	SW8270	Acenaphthene	ND U	75	ug/Kg	ND U	13.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Acenaphthylene	ND U	72	ug/Kg	ND U	42.5	ug/Kg
SB19	09-Nov-04	3	SW8270	Anthracene	ND U	59	ug/Kg	ND U	31	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(a)anthracene	ND U	50	ug/Kg	ND U	22.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(a)pyrene	ND U	45	ug/Kg	ND U	30.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(b)fluoranthene	ND U	40	ug/Kg	ND U	28.9	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(g,h,i)perylene	ND U	58	ug/Kg	ND U	27.5	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzo(k)fluoranthene	ND U	70	ug/Kg	ND U	32.7	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzoic acid	ND UJ	160	ug/Kg	ND U	482	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzyl alcohol	ND U	160	ug/Kg	ND U	548	ug/Kg
SB19	09-Nov-04	3	SW8270	Benzyl butyl phthalate	ND U	160	ug/Kg	ND U	150	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	160	ug/Kg	ND U	39.2	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	160	ug/Kg	ND U	124	ug/Kg
SB19	09-Nov-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	160	ug/Kg	ND U	385	ug/Kg
SB19	09-Nov-04	3	SW8270	Carbazole	ND U	160	ug/Kg	ND U	50.6	ug/Kg
SB19	09-Nov-04	3	SW8270	Chrysene	ND U	53	ug/Kg	ND U	17.7	ug/Kg
SB19	09-Nov-04	3	SW8270	Dibenz(a,h)anthracene	ND U	64	ug/Kg	ND U	23.1	ug/Kg
SB19	09-Nov-04	3	SW8270	Dibenzofuran	ND U	160	ug/Kg	ND U	283	ug/Kg
SB19	09-Nov-04	3	SW8270	Diethylphthalate	ND U	160	ug/Kg	ND U	423	ug/Kg
SB19	09-Nov-04	3	SW8270	Dimethylphthalate	ND U	160	ug/Kg	ND U	241	ug/Kg
SB19	09-Nov-04	3	SW8270	Di-n-butylphthalate	ND U	160	ug/Kg	ND U	471	ug/Kg
SB19	09-Nov-04	3	SW8270	Di-n-octylphthalate	ND U	160	ug/Kg	ND U	94.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Fluoranthene	ND U	56	ug/Kg	ND U	19.2	ug/Kg
SB19	09-Nov-04	3	SW8270	Fluorene	ND U	74	ug/Kg	ND U	11.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachlorobenzene	ND U	160	ug/Kg	ND U	96	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW8270	Hexachlorobutadiene	ND U	160	ug/Kg	ND U	31.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachlorocyclopentadiene	ND U	160	ug/Kg	ND U	154	ug/Kg
SB19	09-Nov-04	3	SW8270	Hexachloroethane	ND U	160	ug/Kg	ND U	60	ug/Kg
SB19	09-Nov-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	50	ug/Kg	ND U	28.9	ug/Kg
SB19	09-Nov-04	3	SW8270	Isophorone	ND U	160	ug/Kg	ND U	22.4	ug/Kg
SB19	09-Nov-04	3	SW8270	Naphthalene	ND U	75	ug/Kg	ND U	11	ug/Kg
SB19	09-Nov-04	3	SW8270	Nitrobenzene	ND U	160	ug/Kg	ND U	62.9	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitrosodimethylamine	ND U	160	ug/Kg	ND U	58.3	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	160	ug/Kg	ND U	101	ug/Kg
SB19	09-Nov-04	3	SW8270	N-Nitrosodiphenylamine	ND U	160	ug/Kg	ND U	99.3	ug/Kg
SB19	09-Nov-04	3	SW8270	Pentachlorophenol	ND U	160	ug/Kg	ND U	245	ug/Kg
SB19	09-Nov-04	3	SW8270	Phenanthrene	ND U	59	ug/Kg	ND U	21.6	ug/Kg
SB19	09-Nov-04	3	SW8270	Phenol	ND U	160	ug/Kg	ND U	128	ug/Kg
SB19	09-Nov-04	3	SW8270	Pyrene	ND U	42	ug/Kg	ND U	16.7	ug/Kg
SB21	09-Nov-04	8	SW8270	1,2,4-Trichlorobenzene	ND U	150	ug/Kg	ND U	51.6	ug/Kg
SB21	09-Nov-04	8	SW8270	1,2-Dichlorobenzene	ND U	150	ug/Kg	ND U	51.3	ug/Kg
SB21	09-Nov-04	8	SW8270	1,3-Dichlorobenzene	ND U	150	ug/Kg	ND U	35	ug/Kg
SB21	09-Nov-04	8	SW8270	1,4-Dichlorobenzene	ND U	150	ug/Kg	ND U	38.1	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4,5-Trichlorophenol	ND U	150	ug/Kg	ND U	305	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4,6-Trichlorophenol	ND U	150	ug/Kg	ND U	533	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dichlorophenol	ND U	150	ug/Kg	ND U	128	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dimethylphenol	ND U	150	ug/Kg	ND U	155	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dinitrophenol	ND U	950	ug/Kg	ND U	414	ug/Kg
SB21	09-Nov-04	8	SW8270	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	120	ug/Kg
SB21	09-Nov-04	8	SW8270	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	163	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Chloronaphthalene	ND U	150	ug/Kg	ND U	38.1	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Chlorophenol	ND U	150	ug/Kg	ND U	118	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Methylnaphthalene	ND U	150	ug/Kg	ND U	29.9	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Methylphenol (o-Cresol)	ND U	150	ug/Kg	ND U	244	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8270	2-Nitroaniline	ND U	150	ug/Kg	ND U	212	ug/Kg
SB21	09-Nov-04	8	SW8270	2-Nitrophenol	ND U	150	ug/Kg	ND U	313	ug/Kg
SB21	09-Nov-04	8	SW8270	3,3'-Dichlorobenzidine	ND U	150	ug/Kg	ND U	708	ug/Kg
SB21	09-Nov-04	8	SW8270	3-Nitroaniline	ND U	150	ug/Kg	ND U	230	ug/Kg
SB21	09-Nov-04	8	SW8270	4,6-Dinitro-2-methylphenol	ND U	76	ug/Kg	ND U	210	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Bromophenyl phenyl ether	ND U	150	ug/Kg	ND U	158	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chloro-3-methylphenol	ND U	150	ug/Kg	ND U	429	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chloroaniline	ND U	150	ug/Kg	ND U	198	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Chlorophenyl phenyl ether	ND U	150	ug/Kg	ND U	295	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Methylphenol (p-Cresol)	ND U	150	ug/Kg	ND U	95.6	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Nitroaniline	ND U	150	ug/Kg	ND U	230	ug/Kg
SB21	09-Nov-04	8	SW8270	4-Nitrophenol	ND U	150	ug/Kg	ND U	155	ug/Kg
SB21	09-Nov-04	8	SW8270	Acenaphthene	ND U	72	ug/Kg	ND U	13.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Acenaphthylene	ND U	70	ug/Kg	ND U	41.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Anthracene	ND U	57	ug/Kg	ND U	30.5	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(a)anthracene	ND U	48	ug/Kg	ND U	22	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(a)pyrene	ND U	44	ug/Kg	ND U	29.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(b)fluoranthene	ND U	39	ug/Kg	ND U	28.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(g,h,i)perylene	ND U	56	ug/Kg	ND U	27.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzo(k)fluoranthene	ND U	68	ug/Kg	ND U	32.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzoic acid	ND UJ	150	ug/Kg	ND U	475	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzyl alcohol	ND U	150	ug/Kg	ND U	539	ug/Kg
SB21	09-Nov-04	8	SW8270	Benzyl butyl phthalate	ND U	150	ug/Kg	ND U	148	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Chloroethoxy)methane	ND U	150	ug/Kg	ND U	38.5	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Chloroisopropyl)ether	ND U	150	ug/Kg	ND U	122	ug/Kg
SB21	09-Nov-04	8	SW8270	bis(2-Ethylhexyl)phthalate	ND U	150	ug/Kg	ND U	378	ug/Kg
SB21	09-Nov-04	8	SW8270	Carbazole	ND U	150	ug/Kg	ND U	49.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Chrysene	ND U	52	ug/Kg	ND U	17.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Dibenz(a,h)anthracene	ND U	62	ug/Kg	ND U	22.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB21	09-Nov-04	8	SW8270	Dibenzofuran	ND U	150	ug/Kg	ND U	279	ug/Kg
SB21	09-Nov-04	8	SW8270	Diethylphthalate	ND U	150	ug/Kg	ND U	416	ug/Kg
SB21	09-Nov-04	8	SW8270	Dimethylphthalate	ND U	150	ug/Kg	ND U	237	ug/Kg
SB21	09-Nov-04	8	SW8270	Di-n-butylphthalate	ND U	150	ug/Kg	ND U	463	ug/Kg
SB21	09-Nov-04	8	SW8270	Di-n-octylphthalate	ND U	150	ug/Kg	ND U	92.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Fluoranthene	ND U	54	ug/Kg	ND U	18.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Fluorene	ND U	71	ug/Kg	ND U	11.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorobenzene	ND U	150	ug/Kg	ND U	94.5	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorobutadiene	ND U	150	ug/Kg	ND U	30.8	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachlorocyclopentadiene	ND U	150	ug/Kg	ND U	151	ug/Kg
SB21	09-Nov-04	8	SW8270	Hexachloroethane	ND U	150	ug/Kg	ND U	59.1	ug/Kg
SB21	09-Nov-04	8	SW8270	Indeno(1,2,3-cd)pyrene	ND U	48	ug/Kg	ND U	28.4	ug/Kg
SB21	09-Nov-04	8	SW8270	Isophorone	ND U	150	ug/Kg	ND U	22	ug/Kg
SB21	09-Nov-04	8	SW8270	Naphthalene	ND U	72	ug/Kg	ND U	10.9	ug/Kg
SB21	09-Nov-04	8	SW8270	Nitrobenzene	ND U	150	ug/Kg	ND U	61.9	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitrosodimethylamine	ND U	150	ug/Kg	ND U	57.3	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitroso-di-n-propylamine	ND U	150	ug/Kg	ND U	99.1	ug/Kg
SB21	09-Nov-04	8	SW8270	N-Nitrosodiphenylamine	ND U	150	ug/Kg	ND U	97.7	ug/Kg
SB21	09-Nov-04	8	SW8270	Pentachlorophenol	ND U	150	ug/Kg	ND U	241	ug/Kg
SB21	09-Nov-04	8	SW8270	Phenanthrene	ND U	57	ug/Kg	ND U	21.2	ug/Kg
SB21	09-Nov-04	8	SW8270	Phenol	ND U	150	ug/Kg	ND U	126	ug/Kg
SB21	09-Nov-04	8	SW8270	Pyrene	ND U	40	ug/Kg	ND U	16.4	ug/Kg
SB23	09-Nov-04	3	SW8270	1,2,4-Trichlorobenzene	ND U	160	ug/Kg	ND U	56.3	ug/Kg
SB23	09-Nov-04	3	SW8270	1,2-Dichlorobenzene	ND U	160	ug/Kg	ND U	56	ug/Kg
SB23	09-Nov-04	3	SW8270	1,3-Dichlorobenzene	ND U	160	ug/Kg	ND U	38.2	ug/Kg
SB23	09-Nov-04	3	SW8270	1,4-Dichlorobenzene	ND U	160	ug/Kg	ND U	41.6	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4,5-Trichlorophenol	ND U	160	ug/Kg	ND U	333	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4,6-Trichlorophenol	ND U	160	ug/Kg	ND U	582	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dichlorophenol	ND U	160	ug/Kg	ND U	140	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	2,4-Dimethylphenol	ND U	160	ug/Kg	ND U	169	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dinitrophenol	ND U	1000	ug/Kg	ND U	452	ug/Kg
SB23	09-Nov-04	3	SW8270	2,4-Dinitrotoluene	ND U	160	ug/Kg	ND U	131	ug/Kg
SB23	09-Nov-04	3	SW8270	2,6-Dinitrotoluene	ND U	160	ug/Kg	ND U	178	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Chloronaphthalene	ND U	160	ug/Kg	ND U	41.6	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Chlorophenol	ND U	160	ug/Kg	ND U	129	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Methylnaphthalene	ND U	160	ug/Kg	ND U	32.7	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Methylphenol (o-Cresol)	ND U	160	ug/Kg	ND U	267	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Nitroaniline	ND U	160	ug/Kg	ND U	232	ug/Kg
SB23	09-Nov-04	3	SW8270	2-Nitrophenol	ND U	160	ug/Kg	ND U	342	ug/Kg
SB23	09-Nov-04	3	SW8270	3,3'-Dichlorobenzidine	ND U	160	ug/Kg	ND U	772	ug/Kg
SB23	09-Nov-04	3	SW8270	3-Nitroaniline	ND U	160	ug/Kg	ND U	252	ug/Kg
SB23	09-Nov-04	3	SW8270	4,6-Dinitro-2-methylphenol	ND U	80	ug/Kg	ND U	229	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Bromophenyl phenyl ether	ND U	160	ug/Kg	ND U	173	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chloro-3-methylphenol	ND U	160	ug/Kg	ND U	468	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chloroaniline	ND U	160	ug/Kg	ND U	217	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Chlorophenyl phenyl ether	ND U	160	ug/Kg	ND U	322	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Methylphenol (p-Cresol)	ND U	160	ug/Kg	ND U	104	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Nitroaniline	ND U	160	ug/Kg	ND U	252	ug/Kg
SB23	09-Nov-04	3	SW8270	4-Nitrophenol	ND U	160	ug/Kg	ND U	169	ug/Kg
SB23	09-Nov-04	3	SW8270	Acenaphthene	ND U	76	ug/Kg	ND U	14.4	ug/Kg
SB23	09-Nov-04	3	SW8270	Acenaphthylene	ND U	74	ug/Kg	ND U	45.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Anthracene	ND U	60	ug/Kg	ND U	33.3	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(a)anthracene	ND U	51	ug/Kg	ND U	24	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(a)pyrene	ND U	46	ug/Kg	ND U	32.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(b)fluoranthene	ND U	41	ug/Kg	ND U	31	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(g,h,i)perylene	ND U	59	ug/Kg	ND U	29.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzo(k)fluoranthene	ND U	71	ug/Kg	ND U	35.2	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzoic acid	ND UJ	160	ug/Kg	ND U	518	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	Benzyl alcohol	ND U	160	ug/Kg	ND U	588	ug/Kg
SB23	09-Nov-04	3	SW8270	Benzyl butyl phthalate	ND U	160	ug/Kg	ND U	161	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Chloroethoxy)methane	ND U	160	ug/Kg	ND U	42.1	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Chloroisopropyl)ether	ND U	160	ug/Kg	ND U	133	ug/Kg
SB23	09-Nov-04	3	SW8270	bis(2-Ethylhexyl)phthalate	ND U	160	ug/Kg	ND U	413	ug/Kg
SB23	09-Nov-04	3	SW8270	Carbazole	ND U	160	ug/Kg	ND U	54.3	ug/Kg
SB23	09-Nov-04	3	SW8270	Chrysene	ND U	54	ug/Kg	ND U	19	ug/Kg
SB23	09-Nov-04	3	SW8270	Dibenz(a,h)anthracene	ND U	65	ug/Kg	ND U	24.8	ug/Kg
SB23	09-Nov-04	3	SW8270	Dibenzofuran	ND U	160	ug/Kg	ND U	304	ug/Kg
SB23	09-Nov-04	3	SW8270	Diethylphthalate	ND U	160	ug/Kg	ND U	454	ug/Kg
SB23	09-Nov-04	3	SW8270	Dimethylphthalate	ND U	160	ug/Kg	ND U	259	ug/Kg
SB23	09-Nov-04	3	SW8270	Di-n-butylphthalate	ND U	160	ug/Kg	ND U	506	ug/Kg
SB23	09-Nov-04	3	SW8270	Di-n-octylphthalate	ND U	160	ug/Kg	ND U	101	ug/Kg
SB23	09-Nov-04	3	SW8270	Fluoranthene	ND U	57	ug/Kg	ND U	20.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Fluorene	ND U	75	ug/Kg	ND U	12.1	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorobenzene	ND U	160	ug/Kg	ND U	103	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorobutadiene	ND U	160	ug/Kg	ND U	33.7	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachlorocyclopentadiene	ND U	160	ug/Kg	ND U	165	ug/Kg
SB23	09-Nov-04	3	SW8270	Hexachloroethane	ND U	160	ug/Kg	ND U	64.5	ug/Kg
SB23	09-Nov-04	3	SW8270	Indeno(1,2,3-cd)pyrene	ND U	51	ug/Kg	ND U	31	ug/Kg
SB23	09-Nov-04	3	SW8270	Isophorone	ND U	160	ug/Kg	ND U	24	ug/Kg
SB23	09-Nov-04	3	SW8270	Naphthalene	ND U	76	ug/Kg	ND U	11.9	ug/Kg
SB23	09-Nov-04	3	SW8270	Nitrobenzene	ND U	160	ug/Kg	ND U	67.6	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitrosodimethylamine	ND U	160	ug/Kg	ND U	62.6	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitroso-di-n-propylamine	ND U	160	ug/Kg	ND U	108	ug/Kg
SB23	09-Nov-04	3	SW8270	N-Nitrosodiphenylamine	ND U	160	ug/Kg	ND U	107	ug/Kg
SB23	09-Nov-04	3	SW8270	Pentachlorophenol	ND U	160	ug/Kg	ND U	263	ug/Kg
SB23	09-Nov-04	3	SW8270	Phenanthrene	ND U	60	ug/Kg	ND U	23.2	ug/Kg
SB23	09-Nov-04	3	SW8270	Phenol	ND U	160	ug/Kg	ND U	138	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8270	Pyrene	ND U	42	ug/Kg	ND U	17.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,2,4-Trichlorobenzene	ND U	370	ug/Kg	ND U	61.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,2-Dichlorobenzene	ND U	370	ug/Kg	ND U	61.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,3-Dichlorobenzene	ND U	370	ug/Kg	ND U	41.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	1,4-Dichlorobenzene	ND U	370	ug/Kg	ND U	45.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4,5-Trichlorophenol	ND U	370	ug/Kg	ND U	364	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4,6-Trichlorophenol	ND U	370	ug/Kg	ND U	636	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dichlorophenol	ND U	370	ug/Kg	ND U	153	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dimethylphenol	ND U	370	ug/Kg	ND U	185	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dinitrophenol	ND U	2300	ug/Kg	ND U	494	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,4-Dinitrotoluene	ND U	370	ug/Kg	ND U	144	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2,6-Dinitrotoluene	ND U	370	ug/Kg	ND U	194	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Chloronaphthalene	ND U	370	ug/Kg	ND U	45.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Chlorophenol	ND U	370	ug/Kg	ND U	141	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Methylnaphthalene	ND U	370	ug/Kg	ND U	35.7	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Methylphenol (o-Cresol)	ND U	370	ug/Kg	362 J	291	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Nitroaniline	ND U	370	ug/Kg	ND U	253	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	2-Nitrophenol	ND U	370	ug/Kg	ND U	374	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	3,3'-Dichlorobenzidine	ND U	370	ug/Kg	ND U	844	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	3-Nitroaniline	ND U	370	ug/Kg	ND U	275	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4,6-Dinitro-2-methylphenol	ND U	180	ug/Kg	ND U	250	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Bromophenyl phenyl ether	ND U	370	ug/Kg	ND U	189	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chloro-3-methylphenol	ND U	370	ug/Kg	ND U	512	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chloroaniline	ND U	370	ug/Kg	ND U	237	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Chlorophenyl phenyl ether	ND U	370	ug/Kg	ND U	352	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Methylphenol (p-Cresol)	ND U	370	ug/Kg	ND U	114	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Nitroaniline	ND U	370	ug/Kg	ND U	275	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	4-Nitrophenol	ND U	370	ug/Kg	ND U	185	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Acenaphthene	ND U	170	ug/Kg	ND U	15.7	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8270	Acenaphthylene	ND U	170	ug/Kg	116 J	49.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Anthracene	ND U	140	ug/Kg	ND U	36.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(a)anthracene	120 J	120	ug/Kg	100 J	26.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(a)pyrene	ND U	100	ug/Kg	115 J	35.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(b)fluoranthene	160 J	94	ug/Kg	171 J	33.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(g,h,i)perylene	ND U	130	ug/Kg	ND U	32.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzo(k)fluoranthene	170 J	160	ug/Kg	99.1 J	38.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzoic acid	ND UJ	370	ug/Kg	1850	566	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzyl alcohol	ND U	370	ug/Kg	ND U	643	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Benzyl butyl phthalate	ND U	370	ug/Kg	ND U	177	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Chloroethoxy)methane	ND U	370	ug/Kg	ND U	46	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Chloroisopropyl)ether	ND U	370	ug/Kg	ND U	145	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	bis(2-Ethylhexyl)phthalate	ND U	370	ug/Kg	ND U	452	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Carbazole	ND U	370	ug/Kg	ND U	59.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Chrysene	140 J	120	ug/Kg	145 J	20.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dibenz(a,h)anthracene	ND U	150	ug/Kg	ND U	27.1	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dibenzofuran	ND U	370	ug/Kg	ND U	332	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Diethylphthalate	ND U	370	ug/Kg	ND U	497	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Dimethylphthalate	ND U	370	ug/Kg	ND U	283	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Di-n-butylphthalate	ND U	370	ug/Kg	584	553	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Di-n-octylphthalate	ND U	370	ug/Kg	ND U	111	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Fluoranthene	ND U	130	ug/Kg	250 J	22.6	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Fluorene	ND U	170	ug/Kg	ND U	13.2	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorobenzene	ND U	370	ug/Kg	ND U	113	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorobutadiene	ND U	370	ug/Kg	ND U	36.8	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachlorocyclopentadiene	ND U	370	ug/Kg	ND U	181	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Hexachloroethane	ND U	370	ug/Kg	ND U	70.5	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Indeno(1,2,3-cd)pyrene	ND U	120	ug/Kg	ND U	33.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Isophorone	ND U	370	ug/Kg	ND U	26.3	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW8270	Naphthalene	ND U	170	ug/Kg	ND U	13	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Nitrobenzene	ND U	370	ug/Kg	ND U	73.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitrosodimethylamine	ND U	370	ug/Kg	ND U	68.4	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitroso-di-n-propylamine	ND U	370	ug/Kg	272 J	118	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	N-Nitrosodiphenylamine	ND U	370	ug/Kg	ND U	117	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Pentachlorophenol	ND U	370	ug/Kg	ND U	287	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Phenanthrene	ND U	140	ug/Kg	ND U	25.3	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Phenol	ND U	370	ug/Kg	535	151	ug/Kg
SWSD-02	27-Oct-04	0	SW8270	Pyrene	180 J	96	ug/Kg	102 J	19.6	ug/Kg

EXPLOSIVE COMPOUNDS

Analytical Results - Soil/Sediment Samples, Primary Results vs QA Results, Explosives, Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	150	ug/Kg	ND U	0.03	mg/Kg
SB16	28-Oct-04	3	SW8330	1,3-Dinitrobenzene	ND U	110	ug/Kg	ND U	0.0291	mg/Kg
SB16	28-Oct-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	150	ug/Kg	ND U	0.0403	mg/Kg
SB16	28-Oct-04	3	SW8330	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0668	mg/Kg
SB16	28-Oct-04	3	SW8330	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0615	mg/Kg
SB16	28-Oct-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.048	mg/Kg
SB16	28-Oct-04	3	SW8330	2-Nitrotoluene	ND U	150	ug/Kg	ND U	0.101	mg/Kg
SB16	28-Oct-04	3	SW8330	3-Nitrotoluene	ND U	150	ug/Kg	ND U	0.138	mg/Kg
SB16	28-Oct-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.06	mg/Kg
SB16	28-Oct-04	3	SW8330	4-Nitrotoluene	ND U	150	ug/Kg	ND U	0.1	mg/Kg
SB16	28-Oct-04	3	SW8330	HMX	ND U	150	ug/Kg	ND U	0.0271	mg/Kg
SB16	28-Oct-04	3	SW8330	Nitrobenzene	ND U	100	ug/Kg	ND U	0.0516	mg/Kg
SB16	28-Oct-04	3	SW8330	RDX	ND U	150	ug/Kg	ND U	0.0347	mg/Kg
SB16	28-Oct-04	3	SW8330	Tetryl	ND U	150	ug/Kg	ND U	0.0956	mg/Kg
SB17	09-Nov-04	0.5	SW8330	1,3,5-Trinitrobenzene	ND U	150	ug/Kg	ND U	0.0291	mg/Kg
SB17	09-Nov-04	0.5	SW8330	1,3-Dinitrobenzene	ND U	110	ug/Kg	ND U	0.0281	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,4,6-Trinitrotoluene	ND U	150	ug/Kg	ND U	0.039	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,4-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0646	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0595	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.0464	mg/Kg
SB17	09-Nov-04	0.5	SW8330	2-Nitrotoluene	ND U	150	ug/Kg	ND U	0.0981	mg/Kg
SB17	09-Nov-04	0.5	SW8330	3-Nitrotoluene	ND U	150	ug/Kg	ND U	0.134	mg/Kg
SB17	09-Nov-04	0.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	150	ug/Kg	ND U	0.058	mg/Kg
SB17	09-Nov-04	0.5	SW8330	4-Nitrotoluene	ND U	150	ug/Kg	ND U	0.0972	mg/Kg
SB17	09-Nov-04	0.5	SW8330	HMX	ND U	150	ug/Kg	ND U	0.0262	mg/Kg
SB17	09-Nov-04	0.5	SW8330	Nitrobenzene	ND U	100	ug/Kg	ND U	0.0499	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW8330	RDX	ND U	150	ug/Kg	ND U	0.0336	mg/Kg
SB17	09-Nov-04	0.5	SW8330	Tetryl	ND U	150	ug/Kg	ND U	0.0924	mg/Kg
SB18	28-Oct-04	0.5	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.03	mg/Kg
SB18	28-Oct-04	0.5	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.0291	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0403	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0668	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0615	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.048	mg/Kg
SB18	28-Oct-04	0.5	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.101	mg/Kg
SB18	28-Oct-04	0.5	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.138	mg/Kg
SB18	28-Oct-04	0.5	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.06	mg/Kg
SB18	28-Oct-04	0.5	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.1	mg/Kg
SB18	28-Oct-04	0.5	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0271	mg/Kg
SB18	28-Oct-04	0.5	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0516	mg/Kg
SB18	28-Oct-04	0.5	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0347	mg/Kg
SB18	28-Oct-04	0.5	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0956	mg/Kg
SB18	28-Oct-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0309	mg/Kg
SB18	28-Oct-04	3	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.03	mg/Kg
SB18	28-Oct-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0415	mg/Kg
SB18	28-Oct-04	3	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0688	mg/Kg
SB18	28-Oct-04	3	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0634	mg/Kg
SB18	28-Oct-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0495	mg/Kg
SB18	28-Oct-04	3	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.104	mg/Kg
SB18	28-Oct-04	3	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.142	mg/Kg
SB18	28-Oct-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0618	mg/Kg
SB18	28-Oct-04	3	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SB18	28-Oct-04	3	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0279	mg/Kg
SB18	28-Oct-04	3	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0531	mg/Kg
SB18	28-Oct-04	3	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0357	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0984	mg/Kg
SB19	09-Nov-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	130	ug/Kg	ND U	0.0298	mg/Kg
SB19	09-Nov-04	3	SW8330	1,3-Dinitrobenzene	ND U	92	ug/Kg	ND U	0.0288	mg/Kg
SB19	09-Nov-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	130	ug/Kg	ND U	0.0399	mg/Kg
SB19	09-Nov-04	3	SW8330	2,4-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0661	mg/Kg
SB19	09-Nov-04	3	SW8330	2,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.061	mg/Kg
SB19	09-Nov-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0476	mg/Kg
SB19	09-Nov-04	3	SW8330	2-Nitrotoluene	ND U	130	ug/Kg	ND U	0.1	mg/Kg
SB19	09-Nov-04	3	SW8330	3-Nitrotoluene	ND U	130	ug/Kg	ND U	0.137	mg/Kg
SB19	09-Nov-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	130	ug/Kg	ND U	0.0594	mg/Kg
SB19	09-Nov-04	3	SW8330	4-Nitrotoluene	ND U	130	ug/Kg	ND U	0.0995	mg/Kg
SB19	09-Nov-04	3	SW8330	HMX	ND U	130	ug/Kg	ND U	0.0268	mg/Kg
SB19	09-Nov-04	3	SW8330	Nitrobenzene	ND U	85	ug/Kg	ND U	0.0511	mg/Kg
SB19	09-Nov-04	3	SW8330	RDX	ND U	130	ug/Kg	ND U	0.0344	mg/Kg
SB19	09-Nov-04	3	SW8330	Tetryl	ND U	130	ug/Kg	ND U	0.0946	mg/Kg
SB21	09-Nov-04	8	SW8330	1,3,5-Trinitrobenzene	ND U	140	ug/Kg	ND U	0.0299	mg/Kg
SB21	09-Nov-04	8	SW8330	1,3-Dinitrobenzene	ND U	100	ug/Kg	ND U	0.0289	mg/Kg
SB21	09-Nov-04	8	SW8330	2,4,6-Trinitrotoluene	ND U	140	ug/Kg	ND U	0.0401	mg/Kg
SB21	09-Nov-04	8	SW8330	2,4-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0664	mg/Kg
SB21	09-Nov-04	8	SW8330	2,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0613	mg/Kg
SB21	09-Nov-04	8	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0478	mg/Kg
SB21	09-Nov-04	8	SW8330	2-Nitrotoluene	ND U	140	ug/Kg	ND U	0.101	mg/Kg
SB21	09-Nov-04	8	SW8330	3-Nitrotoluene	ND U	140	ug/Kg	ND U	0.137	mg/Kg
SB21	09-Nov-04	8	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	140	ug/Kg	ND U	0.0597	mg/Kg
SB21	09-Nov-04	8	SW8330	4-Nitrotoluene	ND U	140	ug/Kg	ND U	0.1	mg/Kg
SB21	09-Nov-04	8	SW8330	HMX	ND U	140	ug/Kg	ND U	0.0269	mg/Kg
SB21	09-Nov-04	8	SW8330	Nitrobenzene	ND U	92	ug/Kg	ND U	0.0513	mg/Kg
SB21	09-Nov-04	8	SW8330	RDX	ND U	140	ug/Kg	ND U	0.0345	mg/Kg
SB21	09-Nov-04	8	SW8330	Tetryl	ND U	140	ug/Kg	ND U	0.0951	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0309	mg/Kg
SB23	09-Nov-04	3	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.03	mg/Kg
SB23	09-Nov-04	3	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0415	mg/Kg
SB23	09-Nov-04	3	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0688	mg/Kg
SB23	09-Nov-04	3	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0634	mg/Kg
SB23	09-Nov-04	3	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0495	mg/Kg
SB23	09-Nov-04	3	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.104	mg/Kg
SB23	09-Nov-04	3	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.142	mg/Kg
SB23	09-Nov-04	3	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0618	mg/Kg
SB23	09-Nov-04	3	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SB23	09-Nov-04	3	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0279	mg/Kg
SB23	09-Nov-04	3	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0531	mg/Kg
SB23	09-Nov-04	3	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0357	mg/Kg
SB23	09-Nov-04	3	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0984	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	1,3,5-Trinitrobenzene	ND U	170	ug/Kg	ND U	0.0306	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	1,3-Dinitrobenzene	ND U	120	ug/Kg	ND U	0.0297	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,4,6-Trinitrotoluene	ND U	170	ug/Kg	ND U	0.0411	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,4-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0681	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0628	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2-Amino-4,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.049	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	2-Nitrotoluene	ND U	170	ug/Kg	ND U	0.103	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	3-Nitrotoluene	ND U	170	ug/Kg	ND U	0.141	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	4-Amino-2,6-Dinitrotoluene	ND U	170	ug/Kg	ND U	0.0612	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	4-Nitrotoluene	ND U	170	ug/Kg	ND U	0.102	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	HMX	ND U	170	ug/Kg	ND U	0.0276	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	Nitrobenzene	ND U	110	ug/Kg	ND U	0.0526	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	RDX	ND U	170	ug/Kg	ND U	0.0354	mg/Kg
SWSD-02	27-Oct-04	0	SW8330	Tetryl	ND U	170	ug/Kg	ND U	0.0974	mg/Kg

PCBs

Analytical Results - Soil/Sediment Samples,
Primary Results vs QA Results, PCBs,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.4	ug/Kg	ND U	9.24	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.4	ug/Kg	ND U	38.7	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.4	ug/Kg	ND U	20.9	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.4	ug/Kg	ND U	20	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.4	ug/Kg	ND U	20.4	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.4	ug/Kg	30 J	17.7	ug/Kg
SB16	28-Oct-04	3	SW8081	PCB-1260 (Aroclor 1260)	93	9.4	ug/Kg	67.4 J	4.95	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.5	ug/Kg	ND U	46.8	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.5	ug/Kg	ND U	196	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.5	ug/Kg	ND U	106	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.5	ug/Kg	ND U	101	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.5	ug/Kg	ND U	104	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.5	ug/Kg	247 J	89.9	ug/Kg
SB17	09-Nov-04	0.5	SW8081	PCB-1260 (Aroclor 1260)	6100	9.5	ug/Kg	579 J	25.1	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1016 (Aroclor 1016)	ND U	8.9	ug/Kg	ND U	8.66	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1221 (Aroclor 1221)	ND U	8.9	ug/Kg	ND U	36.3	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1232 (Aroclor 1232)	ND U	8.9	ug/Kg	ND U	19.6	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1242 (Aroclor 1242)	ND U	8.9	ug/Kg	ND U	18.7	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1248 (Aroclor 1248)	ND U	8.9	ug/Kg	ND U	19.2	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1254 (Aroclor 1254)	ND U	8.9	ug/Kg	16.7 J	16.6	ug/Kg
SB18	28-Oct-04	0.5	SW8081	PCB-1260 (Aroclor 1260)	27	8.9	ug/Kg	48.1 J	4.64	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.9	ug/Kg	ND U	9.85	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.9	ug/Kg	ND U	41.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.9	ug/Kg	ND U	22.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.9	ug/Kg	ND U	21.3	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.9	ug/Kg	ND U	21.8	ug/Kg
SB18	28-Oct-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.9	ug/Kg	ND U	18.9	ug/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW8081	PCB-1260 (Aroclor 1260)	ND U	9.9	ug/Kg	ND U	5.28	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	10	ug/Kg	ND U	9.29	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	10	ug/Kg	ND U	38.9	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	10	ug/Kg	ND U	21	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	10	ug/Kg	ND U	20.1	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	10	ug/Kg	ND U	20.5	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	10	ug/Kg	47.6 J	17.8	ug/Kg
SB19	09-Nov-04	3	SW8081	PCB-1260 (Aroclor 1260)	110	10	ug/Kg	115 J	4.98	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.6	ug/Kg	ND U	8.89	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.6	ug/Kg	ND U	37.2	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.6	ug/Kg	ND U	20.1	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.6	ug/Kg	ND U	19.2	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.6	ug/Kg	ND U	19.6	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.6	ug/Kg	ND U	17.1	ug/Kg
SB21	09-Nov-04	8	SW8081	PCB-1260 (Aroclor 1260)	ND U	9.6	ug/Kg	ND U	4.76	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1016 (Aroclor 1016)	ND U	9.7	ug/Kg	ND U	52	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1221 (Aroclor 1221)	ND U	9.7	ug/Kg	ND U	218	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1232 (Aroclor 1232)	ND U	9.7	ug/Kg	ND U	118	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1242 (Aroclor 1242)	ND U	9.7	ug/Kg	ND U	113	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1248 (Aroclor 1248)	ND U	9.7	ug/Kg	ND U	115	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1254 (Aroclor 1254)	ND U	9.7	ug/Kg	ND U	99.9	ug/Kg
SB23	09-Nov-04	3	SW8081	PCB-1260 (Aroclor 1260)	19	9.7	ug/Kg	ND U	27.9	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1016 (Aroclor 1016)	ND U	120	ug/Kg	ND U	215	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1221 (Aroclor 1221)	ND U	120	ug/Kg	ND U	8070	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1232 (Aroclor 1232)	ND U	120	ug/Kg	ND U	946	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1242 (Aroclor 1242)	ND U	120	ug/Kg	ND U	465	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1248 (Aroclor 1248)	ND U	120	ug/Kg	ND U	1610	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1254 (Aroclor 1254)	ND U	120	ug/Kg	1520 J	413	ug/Kg
SWSD-02	27-Oct-04	0	SW8081	PCB-1260 (Aroclor 1260)	3900	120	ug/Kg	3140 J	115	ug/Kg

METALS

Analytical Results - Solid Samples,
Primary Results vs QA Results, Metals,
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB16	28-Oct-04	3	SW6010	Aluminum	13300	11.4	mg/Kg	12100	5.27	mg/Kg
SB16	28-Oct-04	3	SW6010	Antimony	ND U	1.1	mg/Kg	1.41 J	0.644	mg/Kg
SB16	28-Oct-04	3	SW6010	Arsenic	12.4	0.68	mg/Kg	13.9	0.531	mg/Kg
SB16	28-Oct-04	3	SW6010	Barium	109	1.1	mg/Kg	80.5	0.0539	mg/Kg
SB16	28-Oct-04	3	SW6010	Beryllium	0.76 J	0.23	mg/Kg	0.625	0.0594	mg/Kg
SB16	28-Oct-04	3	SW6010	Cadmium	0.72 J	0.23	mg/Kg	0.532	0.0495	mg/Kg
SB16	28-Oct-04	3	SW6010	Calcium	14800	114	mg/Kg	11600	21.2	mg/Kg
SB16	28-Oct-04	3	SW6010	Chromium	19.2	0.46	mg/Kg	31	0.0833	mg/Kg
SB16	28-Oct-04	3	SW6010	Cobalt	15.1	0.68	mg/Kg	14.3	0.0663	mg/Kg
SB16	28-Oct-04	3	SW6010	Copper	19.5	0.68	mg/Kg	22.2	0.41	mg/Kg
SB16	28-Oct-04	3	SW6010	Iron	25700	6.8	mg/Kg	29700	3.38	mg/Kg
SB16	28-Oct-04	3	SW6010	Lead	13.2	0.34	mg/Kg	15.3	0.237	mg/Kg
SB16	28-Oct-04	3	SW6010	Magnesium	4320	114	mg/Kg	4480	7.73	mg/Kg
SB16	28-Oct-04	3	SW6010	Manganese	2400	1.4	mg/Kg	799	0.529	mg/Kg
SB16	28-Oct-04	3	SW6010	Nickel	48.4	0.68	mg/Kg	33.9	0.113	mg/Kg
SB16	28-Oct-04	3	SW6010	Potassium	1810	114	mg/Kg	1420	9.04	mg/Kg
SB16	28-Oct-04	3	SW6010	Selenium	ND U	0.68	mg/Kg	ND U	1.16	mg/Kg
SB16	28-Oct-04	3	SW6010	Silver	ND U	0.23	mg/Kg	0.206 J	0.0948	mg/Kg
SB16	28-Oct-04	3	SW6010	Sodium	ND U	114	mg/Kg	72.7 J	5.35	mg/Kg
SB16	28-Oct-04	3	SW6010	Thallium	ND U	0.68	mg/Kg	6.33	0.986	mg/Kg
SB16	28-Oct-04	3	SW6010	Vanadium	27.2	0.68	mg/Kg	30	0.291	mg/Kg
SB16	28-Oct-04	3	SW6010	Zinc	64	1.1	mg/Kg	70.8	0.206	mg/Kg
SB16	28-Oct-04	3	SW7471	Mercury (total)	0.024 J	0.013	mg/Kg	0.0184 J	0.0061	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Aluminum	15900	11	mg/Kg	2430	25.7	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Antimony	ND U	2.2	mg/Kg	ND U	3.14	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Arsenic	9.3	0.66	mg/Kg	7 J	2.59	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB17	09-Nov-04	0.5	SW6010	Barium	89.3	1.1	mg/Kg	18.1	0.263	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Beryllium	0.81 J	0.22	mg/Kg	0.298 J	0.29	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Cadmium	0.25 J	0.22	mg/Kg	0.418 J	0.241	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Calcium	7390	220	mg/Kg	291000	103	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Chromium	21.4	0.44	mg/Kg	5.9	0.406	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Cobalt	10.2	1.1	mg/Kg	1.9 J	0.129	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Copper	20.2	1.1	mg/Kg	8.06 J	2	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Iron	26500	6.6	mg/Kg	7460	16.5	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Lead	20.5	0.33	mg/Kg	8.15	0.461	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Magnesium	4420	220	mg/Kg	30600	37.7	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Manganese	624	0.66	mg/Kg	338	2.58	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Nickel	25.2	1.1	mg/Kg	7.71 J	0.549	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Potassium	1580	220	mg/Kg	647 J	44.1	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Selenium	ND U	0.66	mg/Kg	ND U	2.27	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Silver	ND U	0.22	mg/Kg	ND U	0.462	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Sodium	ND U	220	mg/Kg	180 J	26.1	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Thallium	ND U	0.66	mg/Kg	ND U	4.81	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Vanadium	35.4	1.1	mg/Kg	9.06 J	1.42	mg/Kg
SB17	09-Nov-04	0.5	SW6010	Zinc	69	1.1	mg/Kg	6.48 J	1	mg/Kg
SB17	09-Nov-04	0.5	SW7471	Mercury (total)	0.0302 J	0.0152	mg/Kg	0.0252 J	0.006	mg/Kg
SB17	09-Nov-04	0.5	SW7471	Mercury (total)	0.032 J	0.015	mg/Kg	0.0252 J	0.006	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Aluminum	5990	10.7	mg/Kg	5010	5.89	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Antimony	ND U	1.1	mg/Kg	ND U	0.72	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Arsenic	5.7	0.64	mg/Kg	6.24	0.594	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Barium	20.6	1.1	mg/Kg	18.7	0.0602	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Beryllium	0.39 J	0.21	mg/Kg	0.226 J	0.0664	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Cadmium	ND U	0.21	mg/Kg	0.241 J	0.0553	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Calcium	1100	107	mg/Kg	1040	23.7	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Chromium	8.7	0.43	mg/Kg	8.77	0.0931	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	0.5	SW6010	Cobalt	6	0.64	mg/Kg	6.91	0.0741	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Copper	7.8	0.64	mg/Kg	8.93	0.459	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Iron	12500	6.4	mg/Kg	13200	3.78	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Lead	7.7	0.32	mg/Kg	5.94	0.264	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Magnesium	970	107	mg/Kg	961	8.64	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Manganese	403	0.64	mg/Kg	454	0.591	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Nickel	11.3	0.64	mg/Kg	11.8	0.126	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Potassium	444	107	mg/Kg	377	10.1	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Selenium	ND U	0.64	mg/Kg	ND U	1.3	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Silver	ND U	0.21	mg/Kg	ND U	0.106	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Sodium	ND U	107	mg/Kg	41.1 J	5.98	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Thallium	ND U	0.64	mg/Kg	2.99	1.1	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Vanadium	17.5	0.64	mg/Kg	18.8	0.325	mg/Kg
SB18	28-Oct-04	0.5	SW6010	Zinc	25.1	1.1	mg/Kg	25.6	0.23	mg/Kg
SB18	28-Oct-04	0.5	SW7471	Mercury (total)	0.02 J	0.015	mg/Kg	0.0396	0.0058	mg/Kg
SB18	28-Oct-04	3	SW6010	Aluminum	10200	12.2	mg/Kg	9250	4.87	mg/Kg
SB18	28-Oct-04	3	SW6010	Antimony	ND U	1.2	mg/Kg	ND U	0.595	mg/Kg
SB18	28-Oct-04	3	SW6010	Arsenic	7.7	0.73	mg/Kg	7.22	0.491	mg/Kg
SB18	28-Oct-04	3	SW6010	Barium	59.7	1.2	mg/Kg	56.9	0.0498	mg/Kg
SB18	28-Oct-04	3	SW6010	Beryllium	0.56 J	0.24	mg/Kg	0.424 J	0.0549	mg/Kg
SB18	28-Oct-04	3	SW6010	Cadmium	0.26 J	0.24	mg/Kg	0.356 J	0.0457	mg/Kg
SB18	28-Oct-04	3	SW6010	Calcium	50000	608	mg/Kg	46600	19.6	mg/Kg
SB18	28-Oct-04	3	SW6010	Chromium	15.5	0.49	mg/Kg	15.5	0.077	mg/Kg
SB18	28-Oct-04	3	SW6010	Cobalt	8.5	0.73	mg/Kg	9.04	0.0613	mg/Kg
SB18	28-Oct-04	3	SW6010	Copper	19.5	0.73	mg/Kg	23.3	0.379	mg/Kg
SB18	28-Oct-04	3	SW6010	Iron	19000	7.3	mg/Kg	21400	3.13	mg/Kg
SB18	28-Oct-04	3	SW6010	Lead	11.9	0.37	mg/Kg	12.9	0.219	mg/Kg
SB18	28-Oct-04	3	SW6010	Magnesium	20600	122	mg/Kg	19700	7.14	mg/Kg
SB18	28-Oct-04	3	SW6010	Manganese	423	0.73	mg/Kg	390	0.489	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB18	28-Oct-04	3	SW6010	Nickel	24.4	0.73	mg/Kg	24.8	0.104	mg/Kg
SB18	28-Oct-04	3	SW6010	Potassium	1880	122	mg/Kg	1430	8.36	mg/Kg
SB18	28-Oct-04	3	SW6010	Selenium	ND U	0.73	mg/Kg	ND U	2.15	mg/Kg
SB18	28-Oct-04	3	SW6010	Silver	ND U	0.24	mg/Kg	0.232 J	0.0877	mg/Kg
SB18	28-Oct-04	3	SW6010	Sodium	140 J	122	mg/Kg	112 J	4.95	mg/Kg
SB18	28-Oct-04	3	SW6010	Thallium	ND U	0.73	mg/Kg	ND U	0.911	mg/Kg
SB18	28-Oct-04	3	SW6010	Vanadium	24.1	0.73	mg/Kg	25.8	0.269	mg/Kg
SB18	28-Oct-04	3	SW6010	Zinc	46.2	1.2	mg/Kg	53.6	0.19	mg/Kg
SB18	28-Oct-04	3	SW7471	Mercury (total)	ND U	0.017	mg/Kg	0.0307 J	0.0055	mg/Kg
SB19	09-Nov-04	3	SW6010	Aluminum	20900	11.2	mg/Kg	7990	6.61	mg/Kg
SB19	09-Nov-04	3	SW6010	Antimony	ND U	2.2	mg/Kg	ND U	0.808	mg/Kg
SB19	09-Nov-04	3	SW6010	Arsenic	13.2	0.67	mg/Kg	5.98	0.667	mg/Kg
SB19	09-Nov-04	3	SW6010	Barium	125	1.1	mg/Kg	56.4	0.0676	mg/Kg
SB19	09-Nov-04	3	SW6010	Beryllium	1.2	0.22	mg/Kg	0.546 J	0.0746	mg/Kg
SB19	09-Nov-04	3	SW6010	Cadmium	0.43 J	0.22	mg/Kg	0.417 J	0.0621	mg/Kg
SB19	09-Nov-04	3	SW6010	Calcium	6140	223	mg/Kg	3420	26.6	mg/Kg
SB19	09-Nov-04	3	SW6010	Chromium	31.4	0.45	mg/Kg	14.3	0.105	mg/Kg
SB19	09-Nov-04	3	SW6010	Cobalt	15.3	1.1	mg/Kg	4.73	0.0832	mg/Kg
SB19	09-Nov-04	3	SW6010	Copper	39.6	1.1	mg/Kg	19.2	0.515	mg/Kg
SB19	09-Nov-04	3	SW6010	Iron	42100	6.7	mg/Kg	17600	4.24	mg/Kg
SB19	09-Nov-04	3	SW6010	Lead	24.2	0.33	mg/Kg	14.2	0.297	mg/Kg
SB19	09-Nov-04	3	SW6010	Magnesium	5770	223	mg/Kg	2740	9.7	mg/Kg
SB19	09-Nov-04	3	SW6010	Manganese	944	0.67	mg/Kg	137	0.663	mg/Kg
SB19	09-Nov-04	3	SW6010	Nickel	45.3	1.1	mg/Kg	18.6	0.141	mg/Kg
SB19	09-Nov-04	3	SW6010	Potassium	2680	223	mg/Kg	917	11.3	mg/Kg
SB19	09-Nov-04	3	SW6010	Selenium	ND U	0.67	mg/Kg	ND U	1.46	mg/Kg
SB19	09-Nov-04	3	SW6010	Silver	ND U	0.22	mg/Kg	ND U	0.119	mg/Kg
SB19	09-Nov-04	3	SW6010	Sodium	ND U	223	mg/Kg	63.6 J	6.72	mg/Kg
SB19	09-Nov-04	3	SW6010	Thallium	ND U	0.67	mg/Kg	ND U	1.24	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB19	09-Nov-04	3	SW6010	Vanadium	49	1.1	mg/Kg	19.9	0.365	mg/Kg
SB19	09-Nov-04	3	SW6010	Zinc	98.7	1.1	mg/Kg	53.3	0.258	mg/Kg
SB19	09-Nov-04	3	SW7471	Mercury (total)	0.029 J	0.015	mg/Kg	0.0314 J	0.0065	mg/Kg
SB21	09-Nov-04	8	SW6010	Aluminum	14700	11.4	mg/Kg	7950	6.15	mg/Kg
SB21	09-Nov-04	8	SW6010	Antimony	ND U	2.3	mg/Kg	ND U	0.753	mg/Kg
SB21	09-Nov-04	8	SW6010	Arsenic	19.3	0.68	mg/Kg	7.57	0.621	mg/Kg
SB21	09-Nov-04	8	SW6010	Barium	106	1.1	mg/Kg	57.5	0.063	mg/Kg
SB21	09-Nov-04	8	SW6010	Beryllium	0.84 J	0.23	mg/Kg	0.503 J	0.0694	mg/Kg
SB21	09-Nov-04	8	SW6010	Cadmium	0.36 J	0.23	mg/Kg	0.493 J	0.0578	mg/Kg
SB21	09-Nov-04	8	SW6010	Calcium	41100	456	mg/Kg	53800	24.8	mg/Kg
SB21	09-Nov-04	8	SW6010	Chromium	22	0.46	mg/Kg	14.1	0.0973	mg/Kg
SB21	09-Nov-04	8	SW6010	Cobalt	12.7	1.1	mg/Kg	6.68	0.0774	mg/Kg
SB21	09-Nov-04	8	SW6010	Copper	28.5	1.1	mg/Kg	22	0.479	mg/Kg
SB21	09-Nov-04	8	SW6010	Iron	32900	6.8	mg/Kg	18600	3.95	mg/Kg
SB21	09-Nov-04	8	SW6010	Lead	13.7	0.34	mg/Kg	11.5	0.276	mg/Kg
SB21	09-Nov-04	8	SW6010	Magnesium	15000	228	mg/Kg	17600	9.03	mg/Kg
SB21	09-Nov-04	8	SW6010	Manganese	962	0.68	mg/Kg	465	0.618	mg/Kg
SB21	09-Nov-04	8	SW6010	Nickel	39.2	1.1	mg/Kg	22.9	0.132	mg/Kg
SB21	09-Nov-04	8	SW6010	Potassium	2560	228	mg/Kg	1450	10.6	mg/Kg
SB21	09-Nov-04	8	SW6010	Selenium	ND U	0.68	mg/Kg	ND U	1.36	mg/Kg
SB21	09-Nov-04	8	SW6010	Silver	ND U	0.23	mg/Kg	ND U	0.111	mg/Kg
SB21	09-Nov-04	8	SW6010	Sodium	ND U	228	mg/Kg	129 J	6.25	mg/Kg
SB21	09-Nov-04	8	SW6010	Thallium	ND U	0.68	mg/Kg	ND U	1.15	mg/Kg
SB21	09-Nov-04	8	SW6010	Vanadium	34.4	1.1	mg/Kg	22	0.34	mg/Kg
SB21	09-Nov-04	8	SW6010	Zinc	74.7	1.1	mg/Kg	53.4	0.24	mg/Kg
SB21	09-Nov-04	8	SW7471	Mercury (total)	ND U	0.016	mg/Kg	0.0134 J	0.0053	mg/Kg
SB23	09-Nov-04	3	SW6010	Aluminum	12000	11.8	mg/Kg	7380	6.01	mg/Kg
SB23	09-Nov-04	3	SW6010	Antimony	ND U	2.4	mg/Kg	ND U	0.735	mg/Kg
SB23	09-Nov-04	3	SW6010	Arsenic	11.7	0.71	mg/Kg	13.1	0.606	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SB23	09-Nov-04	3	SW6010	Barium	67.3	1.2	mg/Kg	47	0.0615	mg/Kg
SB23	09-Nov-04	3	SW6010	Beryllium	0.64 J	0.24	mg/Kg	0.575	0.0678	mg/Kg
SB23	09-Nov-04	3	SW6010	Cadmium	0.36 J	0.24	mg/Kg	0.727	0.0565	mg/Kg
SB23	09-Nov-04	3	SW6010	Calcium	66700	1180	mg/Kg	20700	24.2	mg/Kg
SB23	09-Nov-04	3	SW6010	Chromium	18.4	0.47	mg/Kg	13.8	0.095	mg/Kg
SB23	09-Nov-04	3	SW6010	Cobalt	10.3	1.2	mg/Kg	12.8	0.0756	mg/Kg
SB23	09-Nov-04	3	SW6010	Copper	20.6	1.2	mg/Kg	26.6	0.468	mg/Kg
SB23	09-Nov-04	3	SW6010	Iron	25900	7.1	mg/Kg	22600	3.86	mg/Kg
SB23	09-Nov-04	3	SW6010	Lead	12.6	0.36	mg/Kg	14.2	0.27	mg/Kg
SB23	09-Nov-04	3	SW6010	Magnesium	18500	237	mg/Kg	10900	8.82	mg/Kg
SB23	09-Nov-04	3	SW6010	Manganese	831	0.71	mg/Kg	676	0.603	mg/Kg
SB23	09-Nov-04	3	SW6010	Nickel	27.3	1.2	mg/Kg	29.3	0.129	mg/Kg
SB23	09-Nov-04	3	SW6010	Potassium	1700	237	mg/Kg	787	10.3	mg/Kg
SB23	09-Nov-04	3	SW6010	Selenium	ND U	0.71	mg/Kg	ND U	1.33	mg/Kg
SB23	09-Nov-04	3	SW6010	Silver	ND U	0.24	mg/Kg	ND U	0.108	mg/Kg
SB23	09-Nov-04	3	SW6010	Sodium	ND U	237	mg/Kg	93.7 J	6.11	mg/Kg
SB23	09-Nov-04	3	SW6010	Thallium	ND U	0.71	mg/Kg	ND U	1.12	mg/Kg
SB23	09-Nov-04	3	SW6010	Vanadium	30.5	1.2	mg/Kg	27.2	0.332	mg/Kg
SB23	09-Nov-04	3	SW6010	Zinc	54.7	1.2	mg/Kg	59.8	0.235	mg/Kg
SB23	09-Nov-04	3	SW7471	Mercury (total)	ND U	0.013	mg/Kg	0.0128 J	0.0059	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Aluminum	9300	14	mg/Kg	7810	6.46	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Antimony	1.5 J	1.4	mg/Kg	ND U	0.79	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Arsenic	3.9	0.84	mg/Kg	2.64 J	0.652	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Barium	62.3	1.4	mg/Kg	57.3	0.0661	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Beryllium	0.56 J	0.28	mg/Kg	0.385 J	0.0729	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Cadmium	0.58 J	0.28	mg/Kg	0.518 J	0.0607	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Calcium	6860	140	mg/Kg	6850	26	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Chromium	14.2	0.56	mg/Kg	14.4	0.102	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Cobalt	5.6	0.84	mg/Kg	6.26	0.0813	mg/Kg

Location	Date	Top Depth	Method	Analyte	QA Result	QA DL	Units	Primary Result	Prim DL	Units
SWSD-02	27-Oct-04	0	SW6010	Copper	21.4	0.84	mg/Kg	21.7	0.503	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Iron	15000	8.4	mg/Kg	15000	4.14	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Lead	191	0.42	mg/Kg	169	0.29	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Magnesium	2660	140	mg/Kg	2640	9.47	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Manganese	162	0.84	mg/Kg	165	0.648	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Nickel	17.9	0.84	mg/Kg	18.9	0.138	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Potassium	1240	140	mg/Kg	1050	11.1	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Selenium	1.2 J	0.84	mg/Kg	1.57 J	1.43	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Silver	ND U	0.28	mg/Kg	ND U	0.116	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Sodium	ND U	140	mg/Kg	51.9 J	6.56	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Thallium	ND U	0.84	mg/Kg	4.41	1.21	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Vanadium	20.8	0.84	mg/Kg	19.7	0.357	mg/Kg
SWSD-02	27-Oct-04	0	SW6010	Zinc	69.6	1.4	mg/Kg	68.2	0.252	mg/Kg
SWSD-02	27-Oct-04	0	SW7471	Mercury (total)	0.078	0.019	mg/Kg	0.0589	0.0058	mg/Kg

Chemical Quality Assurance Report

Acid Areas
Remedial Investigation, Part 1
Former Plum Brook Ordnance Works
Sandusky, OH

January 2005 Sampling Event

Presented by:

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ATTACHMENT 3 DATA COMPARISON TABLES

ABBREVIATIONS AND ACRONYMS

ASC	Analytical Services Center
CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LDP	Laboratory Data Package
LLR	Lowest Level for Reporting
MB	Method Blank
MDL	Method Detection Limit
mg/L	milligram per liter
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
µg/L	Microgram per liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

INTRODUCTION

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the groundwater sampling event performed by Jacobs Engineering, Inc. at the Acid Areas at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio in late January 2005. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of QA samples that were collected in conjunction with the project QC samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Table 1-1 Primary/QC/QA Sample Number Correlation. The QA data is presented in tables in Attachment II – QA Data Summary.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocol:

- *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, November 1986, (SW-846)

Specific analytical methods used included the following:

- SW-846 8260B – volatile organic compounds (VOCs);
- SW-846 8270C – semivolatile organic compounds (SVOCs);
- SW-846 8082 – polychlorinated biphenyls (PCBs);
- SW-846 8330A – nitroaromatic compounds (referred to as explosives hereafter);
- SW-846 6010B – total metals by Inductively Coupled Argon Plasma Spectrophotometer (ICAP);
- SW-846 7471A – total mercury; and
- SW-846 9012M – cyanide.

Analytical Laboratories

The following analytical laboratory was contracted to analyze the primary/QC field samples for this project:

Analytical Services Center (ASC)
Division of Ecology and Environment, Inc.
Contact: Tony Bogolin, Project Manager
4493 Walden Avenue
Lancaster, NY 14086
Phone: (716) 685-8080; Fax: (716) 685-0852

The following analytical laboratory was contracted to analyze the QA field samples for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115; Fax: (615) 846-5426

Both of these laboratories have been validated by the US Army Corps of Engineers (USACE).

Data Evaluation Procedures

The quality of these data has been evaluated following procedures consistent with those included in Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects*, 10 October 1997, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The following data quality issues were addressed in this evaluation:

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review of field QC blank data to detect contamination from outside sources;
- Review of QC data to evaluate data reproducibility;
- Review of laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates;
- Assign appropriate qualifiers to usable data and qualify unusable data as rejected, if necessary; and
- Data evaluation findings presented in term of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

The following definitions provide explanations of the data qualifiers that were assigned to results in the data review process. The data qualifier definitions are consistent with those used within the *Functional Guidelines* referenced above.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

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

I. QC DATA EVALUATION

A. Accuracy:

1) Volatile Organic Compounds

- For Sample Delivery Group (SDG) 0501293, four volatile organic compounds were reported as having low percent recoveries (%Rs) and one compound was reported as having a high %R for the matrix spike (MS). The matrix spike duplicate (MSD) for this SDG reported six low %Rs and one compound was reported as having a high %R. SDG-0502001 did not report any %Rs outside of the control criteria limits for the MS or MSD analyses.
- All laboratory control samples (LCSs) for were within control criteria for SDG-0502001 and 0501293.
- All surrogate recoveries were within control criteria for SDG-0502001 and 0501293.
- The trip blank (TB) results for SDG-051293 reported detectable concentrations of three common laboratory contaminants: acetone at a concentration of 3.21 µg/L, chloroform at a concentration of 1.84 µg/L, and methylene chloride at a concentration of 1.29 µg/L. The analytical results for the TB for SDG-0502001 did not report any detectable compounds.
- The internal standard area responses for SDG-0502001 and 0501293 were all within the control criteria limits.
- Holding times for all analyses for SDG-0502001 and 0501293 were met.
- Sample PBOW-05-GW-AA3-BEDMW003-01A had a dilution factor of 2.5.
- Sample PBOW-05-GW-AA3-BEDMW003-01D had a dilution factor of 2.5.

2) Semivolatile Organic Compounds

- For SDG-0501293, one compound, hexachlorocyclopentadiene, was reported as having a low %R for both the MS and the MSD. All MS and MSD %Rs were within control criteria limits for SDG-0502001.
- The LCS for SDG-00501293 reported one compound as having a low %Rs, benzoic acid. The LCS for SDG-0502001 reported one low %R for benzoic acid and three high %Rs for: acetophenone, caprolactam, and indeno(1,2,3-cd)pyrene. The LCS duplicate for this SDG also reported benzoic acid as having a low %R but had six compounds reporting high %Rs: biphenyl, acenaphthene, acetophenone, caprolactam, dibenz(a, h) anthracene, and indeno(1,2,3-cd)pyrene.
- Surrogate recovery for all analyses of SDG-0502001 and -0501293 were within the control criteria limits.
- The internal standard area responses for SDG-0502001 and -0501293 were all within the control criteria limits.

- Holding times for all analyses for SDG-0502001 and 0501293 were met.

3) Explosives

- For SDG-051293, two explosive compounds were reported as having low percent recoveries (%Rs) and one compound was reported as having a high %R for the matrix spike (MS). The matrix spike duplicate (MSD) for this SDG reported one compound with a low %Rs. SDG 0502001 did not report MS or MSD results.
- Surrogate recovery for all analyses of SDG-0502001 and 0501293 were within the control criteria limits.
- All laboratory control samples (LCSs) for were within control criteria for SDG-0502001 and 0501293.
- The internal standard area responses for SDG-0502001 and 0501293 were all within the control criteria limits.
- Holding times for all analyses for SDG-0502001 and 0501293 were met.

4) Polychlorinated Biphenyls

- All MS and MSD %Rs were within control criteria limits for SDG-0502001 and 0501293.
- One surrogate recovery for tetrachloro-m-xylene in SDG-0502001 was reported as low for sample PBOW-05-GW-AA3-GW004-01. Surrogate recoveries for all analyses of SDG-0501293 were within the control criteria limits.
- All laboratory control samples (LCSs) for were within control criteria for SDG-0502001 and 0501293.
- The internal standard area responses for SDG-0502001 and 0501293 were all within the control criteria limits.
- Holding times for all analyses for SDG-0502001 and 0501293 were met.
- Sample PBOW-05-GW-AA3-BEDMW003-01A had a dilution factor of 5.

5) Metals

- The %R reported for the MS of SDG-0502001 for sodium was outside the QC criteria limits and the MSD of this SDG reported selenium as having a low %R. The MS of SDG-0501293 reported low %Rs for selenium and cyanide.
- The LCS of SDG 0501293 reported cyanide as having a low %R.
- Holding times for all analyses for SDG-0502001 and 0501293 were met.
- Serial dilutions control criteria were met for SDG-0502001 and 0501293.

B. Precision

1) Volatile Organic Compounds

- The MS/MSD pair for SDG-0501293 reported high relative percent differences (RPDs) for acetone cyclohexane (29.8%) and methylcyclohexane (26.5%). MS/MSD analyses were not performed for SDG-0502001.

2) Semivolatile Organic Compounds

- For SDG-0501293, benzoic acid was reported as having a high RPD for the MS/MSD pair, and for one compound, hexachlorocyclopentadiene, the RPD could not be calculated because the MS analytical result was found to be zero. MS/MSD analyses were not performed for SDG-0502001.
- The LCS/LCS duplicate analyses for SDG-0502001 reported 16 compounds as having RPDs higher than the upper limit of the control criteria: 2,4-dimethylphenol, benzoic acid, 1,2,4-trichlorobenzene, 2,4-dinitrotoluene, 2,5-dinitrotoluene, 2-methylnaphthalene, 3,3'-dichlorobenzene, carbazole, dibenzofuran, diethyl phthalate, hexachlorobenzene, hexachlorobutadiene, hexachlorocyclopentadiene, isophorone, hexachloroethane, and nitrobenzene.

3) Explosives

- The MS/MSD pair analyzed for SDG-0501293 reported two compounds as having high RPDs: 4-nitrotoluene (37.4%) and HMX (20.4%).

4) Polychlorinated Biphenyls

- All QC recoveries were found to be within the control criteria limits.

5) Metals

- The MS/MSD pair analyzed for SDG-0502001 reported two compounds as having high RPDs: selenium and sodium. The MS/MSD pair analyzed for SDG-0501293 reported cyanide as having a high RPD.
- Serial dilutions control criteria were met for SDG-0502001 and 0501293.

C. Laboratory Contamination

1) Volatile Organic Compounds

- No contamination was found in any of the associated laboratory blanks SDG-0502001 and 0501293.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated laboratory blanks SDG-0502001 and 0501293.

3) Explosives

- No contamination was found in any of the associated laboratory blanks SDG-0502001 and 0501293.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated laboratory blanks SDG-0502001 and 0501293.

5) Metals

- The method blank (MB) results for SDG-0501293 reported detections of magnesium (108.8 µg/L) and vanadium (2.663 µg/L). The MB results for SDG-0502001 reported detections of chromium (0.2410 µg/L), copper (5.593 µg/L), nickel (1.607 µg/L), and silver 1.476 µg/L).
- The initial calibration blank of SDG-0501293 reported detections of beryllium, chromium, and zinc.
- The continuing calibration blanks of SDG-0501293 reported detections of beryllium, cobalt, iron, magnesium, nickel, magnesium, silver, and vanadium. The continuing calibration blanks of SDG-0502001 reported detections of aluminum, beryllium, chromium, iron, magnesium, and nickel.

II. QA DATA EVALUATION

a. Accuracy

1) Volatile Organic Compounds

- One sample, PBOW-05-GW-AA3-GW003-01B, reported a surrogate recovery of 133% for d4-1,2-dichloroethane, which is slightly higher than the criteria limit of 130%. Positive volatile organic compounds results for this sample are qualified as J, estimated.

2) Semivolatile Organic Compounds

- Surrogate recovery of one compound, 2,4,6-tribromophenol, in the MS was reported as low.

3) Explosives

- The continuing calibration verification samples reported two compounds, tetryl and HMX, as outside the control criteria limit of percent difference %D; however, the average %Ds for the mixtures were well within the control criteria limits.

4) Polychlorinated Biphenyls

- The continuing calibration verification samples reported one compound, Aroclor 1260, as outside the control criteria limit of percent difference %D. However, the average %D for the mixture was well within the control criteria limit.

5) Metals

- All analyses were found to be within their respective control criteria limits.

B. Precision

1) Volatile Organic Compounds

- All analyses were found to be within their respective control criteria limits.

2) Semivolatile Organic Compounds

- All analyses were found to be within their respective control criteria limits.

3) Explosives

- All analyses were found to be within their respective control criteria limits.

4) Polychlorinated Biphenyls

- The MS/MSD pair analytical results for Aroclor 1260 had a RPD (54%) higher than the control criteria limits (30%). Positive PCB results were qualified as J, estimated.

5) Metals

- All analyses were found to be within their respective control criteria limits.

C. Laboratory Contamination

1) Volatile Organic Compounds

- No contamination was found in any of the associated blanks.

2) Semivolatile Organic Compounds

- No contamination was found in any of the associated blanks.

3) Explosives

- No contamination was found in any of the associated blanks.

4) Polychlorinated Biphenyls

- No contamination was found in any of the associated blanks.

5) Metals

- Thallium was detected at a concentration of 4.413 µg/L in the method blank. Positive results for thallium were qualified as J, estimated.
- Cyanide was detected in two continuing calibration blanks, both at a concentration of 6.2 µg/L. Mercury was detected in two continuing calibration blanks at concentrations of 0.088 and 0.101 µg/L. Cyanide and mercury positive results were qualified as J, estimated.

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a QA/QC data comparison was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
Water	All (except TPH)	> 2x difference	>3x difference
Water	TPH	Arbitrary (suggest > 3x difference)	Arbitrary (suggest > 5x difference)

Attachment III presents tables that show a side-by-side comparison of the analytical results of the QC and QA samples.

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Samples found in disagreement do not necessarily indicate an error has been made or inappropriate procedures used. Factors including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis can contribute to duplicate disagreement. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends or extreme non-conformances exist, associated data were evaluated carefully to determine their validity.

The results of the comparison between Primary Field QC and QA samples are presented below.

A. Volatile Organic Compounds

No volatile organic compounds were found at concentration differences between primary and QA samples that exceeded the criteria limits.

B. Semivolatile Organic Compounds

Sample PBOW-05-GW-AA3-BEDMW003 had disagreements for: 2-methylnaphthalene, as it was detected at a concentration of 5.47 J µg/L in the primary sample and 2.6 J µg/L in the QA sample; and naphthalene, as it was detected at a concentration of 5.53 J µg/L in the primary sample and 2.4 J µg/L in the QA sample.

C. Explosives

No explosive compounds were found at concentration differences between primary and QA samples that exceeded the criteria limits.

D. Polychlorinated Biphenyls

No polychlorinated biphenyl compounds were found at concentration differences between primary and QA samples that exceeded the criteria limits.

E. Metals

Sample PBOW-05-GW-AA3-BEDMW003 had a disagreement with copper (total), as it was detected at a concentration of 2.56 µg/L in the primary sample and not detected in the QA sample. This difference may be due to differences in the detection limits (DL) as the primary sample DL for copper was reported as 2.55 µg/L and the QA DL for copper was reported as 3 µg/L.

Sample PBOW-05-GW-AA3-BEDMW003 had a disagreement with thallium (soluble), as it was not detected in the primary sample and detected at a concentration of 4.2 J µg/L in the QA sample. This difference may be due to differences in the DLs as the primary sample DL for thallium was reported as 14.1 µg/L and the QA DL was reported as 3 µg/L.

Sample PBOW-05-GW-AA3-BEDMW003 had a major disagreement with sodium (soluble), as it was detected in the primary sample at a concentration of 194,000 µg/L and detected at a concentration of 19,200 µg/L in the QA sample. Detection limits differed for sodium as the primary sample DL was reported as 49.3 µg/L and the QA DL was reported as 1,000 µg/L.

Sample PBOW-05-GW-AA3-GW003 had a disagreement with aluminum (total), as it was not detected in the primary sample and detected at a concentration of 68.4 J µg/L in the QA sample. Detection limits were quite comparable for aluminum as the DL for aluminum of the Primary sample was reported as 45.4 µg/L and the QA DL was reported as 50 µg/L.

Sample PBOW-05-GW-AA3-BEDMW003 had a major disagreement with calcium (soluble), as it was detected in the primary sample at a concentration of 164,000 µg/L and detected in the QA sample at a concentration of 17,800 µg/L. Detection limits differed for calcium as the primary sample DL for calcium was reported as 90.9 µg/L and the QA DL was reported as 1,000 µg/L.

Sample PBOW-05-GW-AA3-GW003 had a disagreement with cobalt (soluble), as it was detected in the primary sample at a concentration of 2.79 J µg/L and not detected in the QA sample. Similar results were found for the total cobalt sample results as it was detected in the primary sample at a concentration of 2.60 J µg/L and not detected in the QA sample. Detection limits differed as the reported DL for cobalt for the primary sample was 0.898 µg/L and the QA DL was reported as 3 µg/L.

Sample PBOW-05-GW-AA3-GW003 had a disagreement with iron (soluble), as it was detected in the primary sample at a concentration of 39.9 µg/L and not detected in the QA sample. Detection limits were quite comparable for iron as the DL for aluminum of the primary sample was reported as 22.9 µg/L and the QA DL was reported as 30 µg/L.

Sample PBOW-05-GW-AA3-GW003 had a disagreement with thallium (total), as it was not detected in the primary sample and detected in the QA sample at a concentration of 4.5 J µg/L. Similar results were found for the soluble thallium sample results as it was not detected in the primary sample and detected in the QA sample at a concentration of 3.1 J µg/L. This difference may be due to differences in the DLs as the primary sample DL for thallium was reported as 14.1 µg/L and the QA DL was reported as 3 µg/L.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. QC results were unreliable in some cases due to high analyte content that resulted in matrix interference. All of the results were considered usable as no results were rejected due to laboratory error, and where appropriate. Qualifiers were added to specific data results to indicate estimated concentrations when QC data results are not within specific criteria limitations.

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. No results were found to unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

ATTACHMENT 1 – SAMPLE CORRELATION

Primary Field Sample ID	Primary Lab Sample ID	QA Field Sample ID	QA Lab Sample ID	Sample Date and Time	Requested Analyses
PBOW-05-GW-AA3-GW003-01A	0501293-01A	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	8260B VOCs
PBOW-05-GW-AA3-GW003-01A	0501293-01B	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-05-GW-AA3-GW003-01A	0501293-01C	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	6010B/7471A Metals
PBOW-05-GW-AA3-GW003-01A	0501293-01D	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	6010B/7471A Metals
PBOW-05-GW-AA3-GW003-01A	0501293-01E	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	160.1 TDS, 180.1 Turbidity, 300 Anions, 310.1 Alkalinity
PBOW-05-GW-AA3-GW003-01A	0501293-01F	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	9012A Cyanide
PBOW-05-GW-AA3-GW003-01A	0501293-01G	PBOW-05-GW-AA3-GW003-01B	0501236-02	1/25/05 1540	9060 Total Organic Carbon
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04A	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	8260B VOCs
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04B	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	8082 PCBs, 8270C SEMIVOCs, 8330 Nitros
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04C	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	6010B Metals
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04CRE	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	7471A Metals
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04D	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	6010B Metals
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04DRE	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	7471A Metals
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04E	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	9012A Cyanide
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04F	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	160.1 TDS, 180.1 Turbidity, 300 Anions, 310.1 Alkalinity
PBOW-05-GW-AA3-BEDMW003-01A	0502001-04G	PBOW-05-GW-AA3-BEDMW003-01B	0502020-01	1/30/05 1400	9060 Total Organic Carbon

ATTACHMENT II – QA DATA SUMMARIES

VOLATILE ORGANIC COMPOUNDS

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results, VOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1,1-Trichloroethane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1,2-Trichloro-1,2,2-TFA	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1,2-Trichloroethane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1-Dichloroethane	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,1-Dichloroethene	ND	U	0.6	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2,3-Trichlorobenzene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2,4-Trichlorobenzene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2-Dibromo-3-chloropropane	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2-Dichlorobenzene	ND	U	0.2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2-Dichloroethane	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,2-Dichloropropane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,3-Dichlorobenzene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	1,4-Dichlorobenzene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	2-Butanone	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	2-Hexanone	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	4-Methyl-2-pentanone	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Acetone	ND	U	2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Benzene	38		0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Bromochloromethane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Bromodichloromethane	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Bromoform	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Bromomethane	ND	U	0.8	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Carbon Disulfide	ND	U	0.2	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Carbon tetrachloride	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Chlorobenzene	ND	U	0.2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Chloroethane	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Chloroform	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Chloromethane	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	cis-1,2-Dichloroethene	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	cis-1,3-Dichloropropene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Cyclohexane	97		0.6	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Dibromochloromethane	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Dichlorodifluoromethane	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Ethylbenzene	16		0.2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Isopropylbenzene (Cumene)	4.7		0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Methyl Acetate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Methylcyclohexane	53		0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Methylene Chloride	ND	U	0.9	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Styrene	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Tetrachloroethene (PCE)	ND	U	0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Toluene	26		0.3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	trans-1,2-Dichloroethene	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	trans-1,3-Dichloropropene	ND	U	0.2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Trichloroethene (TCE)	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Trichlorofluoromethane	ND	U	0.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Vinyl chloride	ND	U	0.4	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8260B	Xylenes, Total	120		0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1,1-Trichloroethane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1,2-Trichloro-1,2,2-TFA	ND	U	0.5	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1,2-Trichloroethane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1-Dichloroethane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,1-Dichloroethene	ND	U	0.6	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2,3-Trichlorobenzene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2,4-Trichlorobenzene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2-Dibromo-3-chloropropane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2-Dichlorobenzene	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2-Dichloroethane	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,2-Dichloropropane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,3-Dichlorobenzene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	1,4-Dichlorobenzene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	2-Butanone	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	2-Hexanone	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	4-Methyl-2-pentanone	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Acetone	ND	U	2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Benzene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Bromochloromethane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Bromodichloromethane	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Bromoform	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Bromomethane	ND	U	0.8	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Carbon Disulfide	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Carbon tetrachloride	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Chlorobenzene	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Chloroethane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Chloroform	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Chloromethane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	cis-1,2-Dichloroethene	ND	U	0.4	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	cis-1,3-Dichloropropene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Cyclohexane	ND	U	0.6	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Dibromochloromethane	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Dichlorodifluoromethane	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Ethylbenzene	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Isopropylbenzene (Cumene)	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Methyl Acetate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Methylcyclohexane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Methylene Chloride	ND	U	0.9	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Styrene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Tetrachloroethene (PCE)	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Toluene	ND	U	0.3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	trans-1,2-Dichloroethene	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	trans-1,3-Dichloropropene	ND	U	0.2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Trichloroethene (TCE)	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Trichlorofluoromethane	ND	U	0.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Vinyl chloride	ND	U	0.4	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8260B	Xylenes, Total	ND	U	0.3	ug/L

SEMIVOLATILE ORGANIC COMPOUNDS

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results, SVOCs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	1,2,4-Trichlorobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	1,2-Dichlorobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	1,2-Diphenylhydrazine	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	1,3-Dichlorobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	1,4-Dichlorobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4,5-Trichlorophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4,6-Trichlorophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4-Dichlorophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4-Dimethylphenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4-Dinitrophenol	ND	U	10	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,4-Dinitrotoluene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2,6-Dinitrotoluene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Chloronaphthalene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Chlorophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Methylnaphthalene	2.6	J	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Methylphenol (o-Cresol)	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Nitroaniline	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	2-Nitrophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	3&4-Methylphenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	3,3'-Dichlorobenzidine	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	3-Nitroaniline	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4,6-Dinitro-2-methylphenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Bromophenyl phenyl ether	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Chloro-3-methylphenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Chloroaniline	ND	U	1	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Chlorophenyl phenyl ether	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Nitroaniline	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	4-Nitrophenol	ND	U	5.1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Acenaphthene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Acenaphthylene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Anthracene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzo(a)anthracene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzo(a)pyrene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzo(b)fluoranthene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzo(g,h,i)perylene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzo(k)fluoranthene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzoic acid	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzyl alcohol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Benzyl butyl phthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	bis(2-Chloroethoxy)methane	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	bis(2-Chloroethyl)ether	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	bis(2-Chloroisopropyl)ether	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	bis(2-Ethylhexyl)phthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Carbazole	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Chrysene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Dibenz(a,h)anthracene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Dibenzofuran	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Diethylphthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Dimethylphthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Di-n-butylphthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Di-n-octylphthalate	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Fluoranthene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Fluorene	ND	U	1	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Hexachlorobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Hexachlorobutadiene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Hexachlorocyclopentadiene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Hexachloroethane	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Indeno(1,2,3-cd)pyrene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Isophorone	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Naphthalene	2.4	J	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Nitrobenzene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	N-Nitrosodimethylamine	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	N-Nitroso-di-n-propylamine	ND	U	0.82	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	N-Nitrosodiphenylamine	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Pentachlorophenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Phenanthrene	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Phenol	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8270C	Pyrene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	1,2,4-Trichlorobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	1,2-Dichlorobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	1,2-Diphenylhydrazine	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	1,3-Dichlorobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	1,4-Dichlorobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4,5-Trichlorophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4,6-Trichlorophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4-Dichlorophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4-Dimethylphenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4-Dinitrophenol	ND	U	10	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,4-Dinitrotoluene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2,6-Dinitrotoluene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Chloronaphthalene	ND	U	1	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Chlorophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Methylnaphthalene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Methylphenol (o-Cresol)	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Nitroaniline	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	2-Nitrophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	3&4-Methylphenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	3,3'-Dichlorobenzidine	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	3-Nitroaniline	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4,6-Dinitro-2-methylphenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Bromophenyl phenyl ether	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Chloro-3-methylphenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Chloroaniline	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Chlorophenyl phenyl ether	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Nitroaniline	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	4-Nitrophenol	ND	U	5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Acenaphthene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Acenaphthylene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Anthracene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzo(a)anthracene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzo(a)pyrene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzo(b)fluoranthene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzo(g,h,i)perylene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzo(k)fluoranthene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzoic acid	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzyl alcohol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Benzyl butyl phthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	bis(2-Chloroethoxy)methane	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	bis(2-Chloroethyl)ether	ND	U	1	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	bis(2-Chloroisopropyl)ether	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	bis(2-Ethylhexyl)phthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Carbazole	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Chrysene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Dibenz(a,h)anthracene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Dibenzofuran	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Diethylphthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Dimethylphthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Di-n-butylphthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Di-n-octylphthalate	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Fluoranthene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Fluorene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Hexachlorobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Hexachlorobutadiene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Hexachlorocyclopentadiene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Hexachloroethane	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Indeno(1,2,3-cd)pyrene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Isophorone	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Naphthalene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Nitrobenzene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	N-Nitrosodimethylamine	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	N-Nitroso-di-n-propylamine	ND	U	0.8	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	N-Nitrosodiphenylamine	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Pentachlorophenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Phenanthrene	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Phenol	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8270C	Pyrene	ND	U	1	ug/L

EXPLOSIVE COMPOUNDS

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results, Explosives
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	1,3,5-Trinitrobenzene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	1,3-Dinitrobenzene	ND	U	0.11	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	2,4,6-Trinitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	2,4-Dinitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	2,6-Dinitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	2-Nitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	3-Nitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	4-Nitrotoluene	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	HMX	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	Nitrobenzene	ND	U	0.1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	RDX	ND	U	0.16	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8330	Tetryl	ND	U	0.16	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	1,3,5-Trinitrobenzene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	1,3-Dinitrobenzene	ND	U	0.096	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	2,4,6-Trinitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	2,4-Dinitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	2,6-Dinitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	2-Nitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	3-Nitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	4-Nitrotoluene	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	HMX	ND	U	0.14	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	Nitrobenzene	ND	U	0.088	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	RDX	ND	U	0.14	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8330	Tetryl	ND	U	0.14	ug/L

PCBs

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results, PCBs
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1221 (Aroclor 1221)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1232 (Aroclor 1232)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1242 (Aroclor 1242)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1248 (Aroclor 1248)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1254 (Aroclor 1254)	ND	U	0.13	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW8082	PCB-1260 (Aroclor 1260)	ND	U	0.13	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1221 (Aroclor 1221)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1232 (Aroclor 1232)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1242 (Aroclor 1242)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1248 (Aroclor 1248)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1254 (Aroclor 1254)	ND	U	0.12	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW8082	PCB-1260 (Aroclor 1260)	ND	U	0.12	ug/L

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results, Metals
Acid Areas, Plum Brook Ordnance Works, OH

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Aluminum	ND	U	50	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Aluminum (total)	ND	U	50	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Antimony	ND	U	5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Antimony (total)	ND	U	5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Arsenic	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Arsenic (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Barium	860		5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Barium (total)	767		5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Beryllium	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Beryllium (total)	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Cadmium	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Cadmium (total)	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Calcium	74200		500	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Calcium (total)	66000		500	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Chromium	ND	U	2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Chromium (total)	ND	U	2	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Cobalt	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Cobalt (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Copper	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Copper (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Iron	ND	J	30	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Iron (total)	64.9	J	30	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Lead	ND	U	1.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Lead (total)	ND	U	1.5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Magnesium	42800		500	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Magnesium (total)	37800		500	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Manganese	43.4		3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Manganese (total)	38.8		3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Nickel	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Nickel (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Potassium	33600		500	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Potassium (total)	29600		500	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Selenium	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Selenium (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Silver	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Silver (total)	ND	U	1	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Sodium	19200		1000	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Sodium (total)	190000		1000	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Thallium	4.2	J	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Thallium (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Vanadium	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Vanadium (total)	ND	U	3	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Zinc	ND	J	5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW6010B	Zinc (total)	13.9	J	5	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW7470A	Mercury	ND	U	0.08	ug/L
AA3-BED-MW-003	PBOW-05-GW-AA3-BEDMW003-01B	01/30/2005	14:00	SW7470A	Mercury (total)	ND	U	0.08	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Aluminum	ND	U	50	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Aluminum (total)	68.4	J	50	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Antimony	ND	U	5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Antimony (total)	ND	U	5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Arsenic	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Arsenic (total)	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Barium	96.5	J	5	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Barium (total)	97.4	J	5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Beryllium	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Beryllium (total)	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Cadmium	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Cadmium (total)	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Calcium	17800		1000	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Calcium (total)	173000		1000	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Chromium	ND	U	2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Chromium (total)	ND	U	2	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Cobalt	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Cobalt (total)	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Copper	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Copper (total)	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Iron	ND	U	30	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Iron (total)	58.1	J	30	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Lead	ND	U	1.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Lead (total)	ND	U	1.5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Magnesium	57200		500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Magnesium (total)	57000		500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Manganese	299		3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Manganese (total)	299		3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Nickel	5.4	J	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Nickel (total)	5.1	J	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Potassium	1400	J	500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Potassium (total)	1420	J	500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Selenium	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Selenium (total)	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Silver	ND	U	1	ug/L

Location	QA Sample ID	Date	Time	Method	Analyte	QA Result		DL	Units
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Silver (total)	ND	U	1	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Sodium	37200		500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Sodium (total)	36800		500	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Thallium	3.1	J	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Thallium (total)	4.5	J	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Vanadium	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Vanadium (total)	ND	U	3	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Zinc	24.7		5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW6010B	Zinc (total)	25		5	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW7470A	Mercury	ND	U	0.08	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW7470A	Mercury (total)	0.125	J	0.08	ug/L
AA3-GW003	PBOW-05-GW-AA3-GW003-01B	01/25/2005	15:40	SW9012A	Cyanide	ND	U	5	ug/L

METALS

ATTACHMENT III – QA/QC DATA COMPARISON

Qualified Analytical Data - Groundwater Samples
QA vs Primary Results - All Methods
Acid Areas, Plum Brook Ordnance Works, OH

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Aluminum	ND	U	50	ug/L	ND	U	45.4	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Aluminum (total)	ND	U	50	ug/L	ND	U	45.4	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Antimony	ND	U	5	ug/L	ND	U	8.16	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Antimony (total)	ND	U	5	ug/L	ND	U	8.16	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Arsenic	ND	U	3	ug/L	ND	U	4.59	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Arsenic (total)	ND	U	3	ug/L	ND	U	4.59	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Barium	860		5	ug/L	806		0.693	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Barium (total)	767		5	ug/L	825		0.693	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Beryllium	ND	U	1	ug/L	0.152	J	0.109	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Beryllium (total)	ND	U	1	ug/L	ND	U	0.109	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Cadmium	ND	U	1	ug/L	ND	U	0.713	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Cadmium (total)	ND	U	1	ug/L	ND	U	0.713	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Calcium	74200		500	ug/L	76300		90.9	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Calcium (total)	66000		500	ug/L	73200		90.9	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Chromium	ND	U	2	ug/L	ND	U	0.236	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Chromium (total)	ND	U	2	ug/L	1.21	J	0.236	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Cobalt	ND	U	3	ug/L	ND	U	0.898	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Cobalt (total)	ND	U	3	ug/L	ND	U	0.898	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Copper	ND	U	3	ug/L	ND	U	2.55	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Copper (total)	ND	U	3	ug/L	2.65	J	2.55	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Iron	ND	J	30	ug/L	ND	U	22.9	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Iron (total)	64.9	J	30	ug/L	58.4	J	22.9	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Lead	ND	U	1.5	ug/L	ND	U	2.44	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Lead (total)	ND	U	1.5	ug/L	ND	U	2.44	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Magnesium	42800		500	ug/L	44600		38.5	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Magnesium (total)	37800		500	ug/L	43200		38.5	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Manganese	43.4		3	ug/L	41.9		0.419	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Manganese (total)	38.8		3	ug/L	41.1		0.419	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Nickel	ND	U	3	ug/L	ND	U	0.745	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Nickel (total)	ND	U	3	ug/L	ND	U	0.745	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Potassium	33600		500	ug/L	28600		175	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Potassium (total)	29600		500	ug/L	27900		175	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Selenium	ND	U	3	ug/L	ND	U	11.1	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Selenium (total)	ND	U	3	ug/L	ND	U	11.1	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Silver	ND	U	1	ug/L	ND	U	1.30	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Silver (total)	ND	U	1	ug/L	ND	U	1.30	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Sodium	19200		1000	ug/L	194000		49.3	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Sodium (total)	190000		1000	ug/L	187000		49.3	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Thallium	4.2	J	3	ug/L	ND	U	14.1	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Thallium (total)	ND	U	3	ug/L	ND	U	14.1	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Vanadium	ND	U	3	ug/L	ND	U	2.14	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Vanadium (total)	ND	U	3	ug/L	ND	U	2.14	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Zinc	ND	J	5	ug/L	ND	U	1.46	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW6010B	Zinc (total)	13.9	J	5	ug/L	11.8	J	1.46	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW7470A	Mercury	ND	U	0.08	ug/L	0.145	J	0.0584	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW7470A	Mercury (total)	ND	U	0.08	ug/L	ND	U	0.0584	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.13	ug/L	ND	U	3.17	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1221 (Aroclor 1221)	ND	U	0.13	ug/L	ND	U	9.43	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1232 (Aroclor 1232)	ND	U	0.13	ug/L	ND	U	4.59	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1242 (Aroclor 1242)	ND	U	0.13	ug/L	ND	U	6.98	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1248 (Aroclor 1248)	ND	U	0.13	ug/L	ND	U	9.39	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1254 (Aroclor 1254)	ND	U	0.13	ug/L	ND	U	1.41	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8082	PCB-1260 (Aroclor 1260)	ND	U	0.13	ug/L	ND	U	1.42	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1,1-Trichloroethane	ND	U	0.4	ug/L	ND	U	0.308	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/L	ND	U	0.428	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1,2-Trichloro-1,2,2-TFA	ND	U	0.5	ug/L	ND	U	0.680	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1,2-Trichloroethane	ND	U	0.4	ug/L	ND	U	0.348	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1-Dichloroethane	ND	U	0.5	ug/L	ND	U	0.293	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,1-Dichloroethene	ND	U	0.6	ug/L	ND	U	0.343	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2,3-Trichlorobenzene	ND	U	0.3	ug/L	ND	U	0.295	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2,4-Trichlorobenzene	ND	U	0.3	ug/L	ND	U	0.363	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2-Dibromo-3-chloropropane	ND	U	0.5	ug/L	ND	U	0.933	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/L	ND	U	0.315	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2-Dichlorobenzene	ND	U	0.2	ug/L	ND	U	0.200	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2-Dichloroethane	ND	U	0.3	ug/L	ND	U	0.273	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,2-Dichloropropane	ND	U	0.4	ug/L	ND	U	0.240	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,3-Dichlorobenzene	ND	U	0.3	ug/L	ND	U	0.233	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	1,4-Dichlorobenzene	ND	U	0.3	ug/L	ND	U	0.253	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	2-Butanone	ND	U	1	ug/L	ND	U	2.04	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	2-Hexanone	ND	U	1	ug/L	ND	U	0.468	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	4-Methyl-2-pentanone	ND	U	1	ug/L	ND	U	0.983	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Acetone	ND	U	2	ug/L	ND	U	4.33	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Benzene	38		0.3	ug/L	42.8		0.260	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Bromochloromethane	ND	U	0.4	ug/L	ND	U	0.398	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Bromodichloromethane	ND	U	0.3	ug/L	ND	U	0.353	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Bromoform	ND	U	0.4	ug/L	ND	U	0.248	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Bromomethane	ND	U	0.8	ug/L	ND	U	0.253	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Carbon Disulfide	ND	U	0.2	ug/L	0.715	J	0.295	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Carbon tetrachloride	ND	U	0.4	ug/L	ND	U	0.278	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Chlorobenzene	ND	U	0.2	ug/L	ND	U	0.288	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Chloroethane	ND	U	0.5	ug/L	ND	U	0.303	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Chloroform	ND	U	0.4	ug/L	ND	U	0.300	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Chloromethane	ND	U	0.5	ug/L	ND	U	0.355	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	cis-1,2-Dichloroethene	ND	U	0.4	ug/L	ND	U	0.248	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	cis-1,3-Dichloropropene	ND	U	0.3	ug/L	ND	U	0.260	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Cyclohexane	97		0.6	ug/L	96.0		0.250	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Dibromochloromethane	ND	U	0.3	ug/L	ND	U	0.219	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Dichlorodifluoromethane	ND	U	0.4	ug/L	ND	U	0.760	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Ethylbenzene	16		0.2	ug/L	15.6		0.410	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Isopropylbenzene (Cumene)	4.7		0.3	ug/L	4.72		0.253	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Methyl Acetate	ND	U	1	ug/L	ND	U	0.968	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Methylcyclohexane	53		0.5	ug/L	55.9		0.268	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Methylene Chloride	ND	U	0.9	ug/L	ND	U	0.320	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Styrene	ND	U	0.3	ug/L	ND	U	0.295	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.2	ug/L	ND	U	0.273	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Tetrachloroethene (PCE)	ND	U	0.3	ug/L	ND	U	0.353	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Toluene	26		0.3	ug/L	27.7		0.298	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	trans-1,2-Dichloroethene	ND	U	0.4	ug/L	ND	U	0.320	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	trans-1,3-Dichloropropene	ND	U	0.2	ug/L	ND	U	0.280	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Trichloroethene (TCE)	ND	U	0.4	ug/L	ND	U	0.408	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Trichlorofluoromethane	ND	U	0.5	ug/L	ND	U	0.463	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Vinyl chloride	ND	U	0.4	ug/L	ND	U	0.298	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8260B	Xylenes, Total	120		0.3	ug/L	132		0.768	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	1,2,4-Trichlorobenzene	ND	U	1	ug/L	ND	U	1.74	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	1,2-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.82	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	1,3-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.63	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	1,4-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.79	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4,5-Trichlorophenol	ND	U	1	ug/L	ND	U	5.39	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4,6-Trichlorophenol	ND	U	1	ug/L	ND	U	4.61	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4-Dichlorophenol	ND	U	1	ug/L	ND	U	4.42	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4-Dimethylphenol	ND	U	1	ug/L	ND	U	4.48	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4-Dinitrophenol	ND	U	10	ug/L	ND	U	4.64	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,4-Dinitrotoluene	ND	U	1	ug/L	ND	U	2.44	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2,6-Dinitrotoluene	ND	U	1	ug/L	ND	U	2.28	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Chloronaphthalene	ND	U	1	ug/L	ND	U	2.82	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Chlorophenol	ND	U	1	ug/L	ND	U	4.38	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Methylnaphthalene	2.6	J	1	ug/L	5.47	J	2.08	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Methylphenol (o-Cresol)	ND	U	1	ug/L	ND	U	4.18	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Nitroaniline	ND	U	1	ug/L	ND	U	3.06	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	2-Nitrophenol	ND	U	1	ug/L	ND	U	4.05	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	3&4-Methylphenol	ND	U	1	ug/L	ND	U	4.52	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	3,3'-Dichlorobenzidine	ND	U	1	ug/L	ND	U	7.25	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	3-Nitroaniline	ND	U	1	ug/L	ND	U	3.10	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4,6-Dinitro-2-methylphenol	ND	U	1	ug/L	ND	U	4.91	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Bromophenyl phenyl ether	ND	U	1	ug/L	ND	U	3.16	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Chloro-3-methylphenol	ND	U	1	ug/L	ND	U	4.49	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Chloroaniline	ND	U	1	ug/L	ND	U	2.64	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Chlorophenyl phenyl ether	ND	U	1	ug/L	ND	U	3.37	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Nitroaniline	ND	U	1	ug/L	ND	U	3.31	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	4-Nitrophenol	ND	U	5.1	ug/L	ND	U	4.57	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Acenaphthene	ND	U	1	ug/L	ND	U	0.665	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Acenaphthylene	ND	U	1	ug/L	ND	U	0.592	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Anthracene	ND	U	1	ug/L	ND	U	0.663	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzo(a)anthracene	ND	U	1	ug/L	ND	U	0.816	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzo(a)pyrene	ND	U	1	ug/L	ND	U	0.730	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzo(b)fluoranthene	ND	U	1	ug/L	ND	U	0.796	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzo(g,h,i)perylene	ND	U	1	ug/L	ND	U	0.671	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzo(k)fluoranthene	ND	U	1	ug/L	ND	U	0.701	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzoic acid	ND	U	1	ug/L	ND	U	6.40	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzyl alcohol	ND	U	1	ug/L	ND	U	2.65	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Benzyl butyl phthalate	ND	U	1	ug/L	ND	U	2.91	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	bis(2-Chloroethoxy)methane	ND	U	1	ug/L	ND	U	2.67	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	bis(2-Chloroethyl)ether	ND	U	1	ug/L	ND	U	2.46	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	bis(2-Chloroisopropyl)ether	ND	U	1	ug/L	ND	U	3.19	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	bis(2-Ethylhexyl)phthalate	ND	U	1	ug/L	ND	U	3.52	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Carbazole	ND	U	1	ug/L	ND	U	2.25	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Chrysene	ND	U	1	ug/L	ND	U	0.808	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Dibenz(a,h)anthracene	ND	U	1	ug/L	ND	U	0.717	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Dibenzofuran	ND	U	1	ug/L	ND	U	2.34	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Diethylphthalate	ND	U	1	ug/L	ND	U	2.39	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Dimethylphthalate	ND	U	1	ug/L	ND	U	3.19	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Di-n-butylphthalate	ND	U	1	ug/L	ND	U	3.23	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Di-n-octylphthalate	ND	U	1	ug/L	ND	U	2.68	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Fluoranthene	ND	U	1	ug/L	ND	U	0.760	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Fluorene	ND	U	1	ug/L	ND	U	0.754	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Hexachlorobenzene	ND	U	1	ug/L	ND	U	2.51	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Hexachlorobutadiene	ND	U	1	ug/L	ND	U	1.95	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Hexachlorocyclopentadiene	ND	U	1	ug/L	ND	U	1.58	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Hexachloroethane	ND	U	1	ug/L	ND	U	1.40	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Indeno(1,2,3-cd)pyrene	ND	U	1	ug/L	ND	U	0.755	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Isophorone	ND	U	1	ug/L	ND	U	2.07	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Naphthalene	2.4	J	1	ug/L	5.53	J	0.545	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Nitrobenzene	ND	U	1	ug/L	ND	U	2.08	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	N-Nitrosodimethylamine	ND	U	1	ug/L	ND	U	3.08	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	N-Nitroso-di-n-propylamine	ND	U	0.82	ug/L	ND	U	3.16	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	N-Nitrosodiphenylamine	ND	U	1	ug/L	ND	U	3.44	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Pentachlorophenol	ND	U	1	ug/L	ND	U	5.42	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Phenanthrene	ND	U	1	ug/L	ND	U	0.691	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Phenol	ND	U	1	ug/L	ND	U	4.31	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8270C	Pyrene	ND	U	1	ug/L	ND	U	0.730	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	1,3,5-Trinitrobenzene	ND	U	0.16	ug/L	ND	U	0.0484	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	1,3-Dinitrobenzene	ND	U	0.11	ug/L	ND	U	0.0657	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	2,4,6-Trinitrotoluene	ND	U	0.16	ug/L	ND	U	0.141	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	2,4-Dinitrotoluene	ND	U	0.16	ug/L	ND	U	0.105	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	2,6-Dinitrotoluene	ND	U	0.16	ug/L	ND	U	0.197	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	0.16	ug/L	ND	U	0.103	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	2-Nitrotoluene	ND	U	0.16	ug/L	ND	U	0.202	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	3-Nitrotoluene	ND	U	0.16	ug/L	ND	U	0.372	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	0.16	ug/L	ND	U	0.210	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	4-Nitrotoluene	ND	U	0.16	ug/L	ND	U	0.183	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	HMX	ND	U	0.16	ug/L	ND	U	0.0689	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	Nitrobenzene	ND	U	0.1	ug/L	ND	U	0.109	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	RDX	ND	U	0.16	ug/L	ND	U	0.0846	ug/L
AA3-BED-MW-003	01/30/2005	14:00	SW8330	Tetryl	ND	U	0.16	ug/L	ND	U	0.207	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Aluminum	ND	U	50	ug/L	ND	U	45.4	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Aluminum (total)	68.4	J	50	ug/L	ND	U	45.4	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Antimony	ND	U	5	ug/L	ND	U	8.16	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Antimony (total)	ND	U	5	ug/L	ND	U	8.16	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Arsenic	ND	U	3	ug/L	ND	U	4.59	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Arsenic (total)	ND	U	3	ug/L	ND	U	4.59	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Barium	96.5	J	5	ug/L	89.8		0.693	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Barium (total)	97.4	J	5	ug/L	92.9		0.693	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Beryllium	ND	U	1	ug/L	ND	U	0.109	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW6010B	Beryllium (total)	ND	U	1	ug/L	ND	U	0.109	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Cadmium	ND	U	1	ug/L	ND	U	0.713	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Cadmium (total)	ND	U	1	ug/L	ND	U	0.713	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Calcium	17800		1000	ug/L	164000		90.9	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Calcium (total)	173000		1000	ug/L	165000		90.9	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Chromium	ND	U	2	ug/L	0.409	J	0.236	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Chromium (total)	ND	U	2	ug/L	0.633	J	0.236	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Cobalt	ND	U	3	ug/L	2.79	J	0.898	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Cobalt (total)	ND	U	3	ug/L	2.60	J	0.898	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Copper	ND	U	3	ug/L	ND	U	2.55	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Copper (total)	ND	U	3	ug/L	ND	U	2.55	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Iron	ND	U	30	ug/L	39.9	J	22.9	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Iron (total)	58.1	J	30	ug/L	114	J	22.9	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Lead	ND	U	1.5	ug/L	ND	U	2.44	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Lead (total)	ND	U	1.5	ug/L	ND	U	2.44	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Magnesium	57200		500	ug/L	54700		38.5	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Magnesium (total)	57000		500	ug/L	55200		38.5	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Manganese	299		3	ug/L	295		0.419	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Manganese (total)	299		3	ug/L	324		0.419	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Nickel	5.4	J	3	ug/L	3.06	J	0.745	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Nickel (total)	5.1	J	3	ug/L	3.12	J	0.745	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Potassium	1400	J	500	ug/L	1040	J	175	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Potassium (total)	1420	J	500	ug/L	1220	J	175	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Selenium	ND	U	3	ug/L	ND	U	11.1	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Selenium (total)	ND	U	3	ug/L	ND	U	11.1	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Silver	ND	U	1	ug/L	ND	U	1.30	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Silver (total)	ND	U	1	ug/L	ND	U	1.30	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Sodium	37200		500	ug/L	36000		49.3	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW6010B	Sodium (total)	36800		500	ug/L	36300		49.3	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Thallium	3.1	J	3	ug/L	ND	U	14.1	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Thallium (total)	4.5	J	3	ug/L	ND	U	14.1	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Vanadium	ND	U	3	ug/L	ND	U	2.14	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Vanadium (total)	ND	U	3	ug/L	ND	U	2.14	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Zinc	24.7		5	ug/L	13.8	J	1.46	ug/L
AA3-GW003	01/25/2005	15:40	SW6010B	Zinc (total)	25		5	ug/L	14.8	J	1.46	ug/L
AA3-GW003	01/25/2005	15:40	SW7470A	Mercury	ND	U	0.08	ug/L	ND	U	0.0584	ug/L
AA3-GW003	01/25/2005	15:40	SW7470A	Mercury (total)	0.125	J	0.08	ug/L	ND	U	0.0584	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.12	ug/L	ND	U	0.629	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1221 (Aroclor 1221)	ND	U	0.12	ug/L	ND	U	1.87	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1232 (Aroclor 1232)	ND	U	0.12	ug/L	ND	U	0.910	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1242 (Aroclor 1242)	ND	U	0.12	ug/L	ND	U	1.38	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1248 (Aroclor 1248)	ND	U	0.12	ug/L	ND	U	1.86	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1254 (Aroclor 1254)	ND	U	0.12	ug/L	ND	U	0.279	ug/L
AA3-GW003	01/25/2005	15:40	SW8082	PCB-1260 (Aroclor 1260)	ND	U	0.12	ug/L	ND	U	0.282	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1,1-Trichloroethane	ND	U	0.4	ug/L	ND	U	0.123	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1,2,2-Tetrachloroethane	ND	U	0.4	ug/L	ND	U	0.171	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1,2-Trichloro-1,2,2-TFA	ND	U	0.5	ug/L	ND	U	0.272	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1,2-Trichloroethane	ND	U	0.4	ug/L	ND	U	0.139	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1-Dichloroethane	ND	U	0.5	ug/L	ND	U	0.117	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,1-Dichloroethene	ND	U	0.6	ug/L	ND	U	0.137	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2,3-Trichlorobenzene	ND	U	0.3	ug/L	ND	U	0.118	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2,4-Trichlorobenzene	ND	U	0.3	ug/L	ND	U	0.145	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2-Dibromo-3-chloropropane	ND	U	0.5	ug/L	ND	U	0.373	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2-Dibromoethane (EDB)	ND	U	0.5	ug/L	ND	U	0.126	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2-Dichlorobenzene	ND	U	0.2	ug/L	ND	U	0.0800	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,2-Dichloroethane	ND	U	0.3	ug/L	ND	U	0.109	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW8260B	1,2-Dichloropropane	ND	U	0.4	ug/L	ND	U	0.0961	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,3-Dichlorobenzene	ND	U	0.3	ug/L	ND	U	0.0933	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	1,4-Dichlorobenzene	ND	U	0.3	ug/L	ND	U	0.101	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	2-Butanone	ND	U	1	ug/L	ND	U	0.815	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	2-Hexanone	ND	U	1	ug/L	ND	U	0.187	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	4-Methyl-2-pentanone	ND	U	1	ug/L	ND	U	0.393	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Acetone	ND	U	2	ug/L	ND	U	1.73	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Benzene	ND	U	0.3	ug/L	ND	U	0.104	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Bromochloromethane	ND	U	0.4	ug/L	ND	U	0.159	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Bromodichloromethane	ND	U	0.3	ug/L	ND	U	0.141	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Bromoform	ND	U	0.4	ug/L	ND	U	0.0990	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Bromomethane	ND	U	0.8	ug/L	ND	U	0.101	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Carbon Disulfide	ND	U	0.2	ug/L	ND	U	0.118	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Carbon tetrachloride	ND	U	0.4	ug/L	ND	U	0.111	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Chlorobenzene	ND	U	0.2	ug/L	ND	U	0.115	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Chloroethane	ND	U	0.5	ug/L	ND	U	0.121	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Chloroform	ND	U	0.4	ug/L	ND	U	0.120	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Chloromethane	ND	U	0.5	ug/L	ND	U	0.142	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	cis-1,2-Dichloroethene	ND	U	0.4	ug/L	ND	U	0.0990	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	cis-1,3-Dichloropropene	ND	U	0.3	ug/L	ND	U	0.104	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Cyclohexane	ND	U	0.6	ug/L	ND	U	0.0999	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Dibromochloromethane	ND	U	0.3	ug/L	ND	U	0.0874	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Dichlorodifluoromethane	ND	U	0.4	ug/L	ND	U	0.304	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Ethylbenzene	ND	U	0.2	ug/L	ND	U	0.164	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Isopropylbenzene (Cumene)	ND	U	0.3	ug/L	ND	U	0.101	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Methyl Acetate	ND	U	1	ug/L	ND	U	0.387	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Methylcyclohexane	ND	U	0.5	ug/L	ND	U	0.107	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Methylene Chloride	ND	U	0.9	ug/L	ND	U	0.128	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW8260B	Styrene	ND	U	0.3	ug/L	ND	U	0.118	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.2	ug/L	ND	U	0.109	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Tetrachloroethene (PCE)	ND	U	0.3	ug/L	ND	U	0.141	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Toluene	ND	U	0.3	ug/L	ND	U	0.119	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	trans-1,2-Dichloroethene	ND	U	0.4	ug/L	ND	U	0.128	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	trans-1,3-Dichloropropene	ND	U	0.2	ug/L	ND	U	0.112	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Trichloroethene (TCE)	ND	U	0.4	ug/L	ND	U	0.163	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Trichlorofluoromethane	ND	U	0.5	ug/L	ND	U	0.185	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Vinyl chloride	ND	U	0.4	ug/L	ND	U	0.119	ug/L
AA3-GW003	01/25/2005	15:40	SW8260B	Xylenes, Total	ND	U	0.3	ug/L	ND	U	0.307	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	1,2,4-Trichlorobenzene	ND	U	1	ug/L	ND	U	1.74	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	1,2-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.82	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	1,3-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.63	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	1,4-Dichlorobenzene	ND	U	1	ug/L	ND	U	1.79	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4,5-Trichlorophenol	ND	U	1	ug/L	ND	U	5.39	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4,6-Trichlorophenol	ND	U	1	ug/L	ND	U	4.61	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4-Dichlorophenol	ND	U	1	ug/L	ND	U	4.42	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4-Dimethylphenol	ND	U	1	ug/L	ND	U	4.48	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4-Dinitrophenol	ND	U	10	ug/L	ND	U	4.64	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,4-Dinitrotoluene	ND	U	1	ug/L	ND	U	2.44	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2,6-Dinitrotoluene	ND	U	1	ug/L	ND	U	2.28	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Chloronaphthalene	ND	U	1	ug/L	ND	U	2.82	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Chlorophenol	ND	U	1	ug/L	ND	U	4.38	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Methylnaphthalene	ND	U	1	ug/L	ND	U	2.08	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Methylphenol (o-Cresol)	ND	U	1	ug/L	ND	U	4.18	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Nitroaniline	ND	U	1	ug/L	ND	U	3.06	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	2-Nitrophenol	ND	U	1	ug/L	ND	U	4.05	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	3&4-Methylphenol	ND	U	1	ug/L	ND	U	4.52	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW8270C	3,3'-Dichlorobenzidine	ND	U	1	ug/L	ND	U	7.25	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	3-Nitroaniline	ND	U	1	ug/L	ND	U	3.10	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4,6-Dinitro-2-methylphenol	ND	U	1	ug/L	ND	U	4.91	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Bromophenyl phenyl ether	ND	U	1	ug/L	ND	U	3.16	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Chloro-3-methylphenol	ND	U	1	ug/L	ND	U	4.49	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Chloroaniline	ND	U	1	ug/L	ND	U	2.64	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Chlorophenyl phenyl ether	ND	U	1	ug/L	ND	U	3.37	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Nitroaniline	ND	U	1	ug/L	ND	U	3.31	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	4-Nitrophenol	ND	U	5	ug/L	ND	U	4.57	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Acenaphthene	ND	U	1	ug/L	ND	U	0.665	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Acenaphthylene	ND	U	1	ug/L	ND	U	0.592	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Anthracene	ND	U	1	ug/L	ND	U	0.663	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzo(a)anthracene	ND	U	1	ug/L	ND	U	0.816	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzo(a)pyrene	ND	U	1	ug/L	ND	U	0.730	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzo(b)fluoranthene	ND	U	1	ug/L	ND	U	0.796	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzo(g,h,i)perylene	ND	U	1	ug/L	ND	U	0.671	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzo(k)fluoranthene	ND	U	1	ug/L	ND	U	0.701	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzoic acid	ND	U	1	ug/L	ND	U	6.40	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzyl alcohol	ND	U	1	ug/L	ND	U	2.65	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Benzyl butyl phthalate	ND	U	1	ug/L	ND	U	2.91	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	bis(2-Chloroethoxy)methane	ND	U	1	ug/L	ND	U	2.67	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	bis(2-Chloroethyl)ether	ND	U	1	ug/L	ND	U	2.46	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	bis(2-Chloroisopropyl)ether	ND	U	1	ug/L	ND	U	3.19	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	bis(2-Ethylhexyl)phthalate	ND	U	1	ug/L	ND	U	3.52	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Carbazole	ND	U	1	ug/L	ND	U	2.25	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Chrysene	ND	U	1	ug/L	ND	U	0.808	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Dibenz(a,h)anthracene	ND	U	1	ug/L	ND	U	0.717	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Dibenzofuran	ND	U	1	ug/L	ND	U	2.34	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW8270C	Diethylphthalate	ND	U	1	ug/L	ND	U	2.39	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Dimethylphthalate	ND	U	1	ug/L	ND	U	3.19	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Di-n-butylphthalate	ND	U	1	ug/L	ND	U	3.23	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Di-n-octylphthalate	ND	U	1	ug/L	ND	U	2.68	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Fluoranthene	ND	U	1	ug/L	ND	U	0.760	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Fluorene	ND	U	1	ug/L	ND	U	0.754	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Hexachlorobenzene	ND	U	1	ug/L	ND	U	2.51	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Hexachlorobutadiene	ND	U	1	ug/L	ND	U	1.95	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Hexachlorocyclopentadiene	ND	U	1	ug/L	ND	U	1.58	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Hexachloroethane	ND	U	1	ug/L	ND	U	1.40	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Indeno(1,2,3-cd)pyrene	ND	U	1	ug/L	ND	U	0.755	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Isophorone	ND	U	1	ug/L	ND	U	2.07	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Naphthalene	ND	U	1	ug/L	ND	U	0.545	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Nitrobenzene	ND	U	1	ug/L	ND	U	2.08	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	N-Nitrosodimethylamine	ND	U	1	ug/L	ND	U	3.08	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	N-Nitroso-di-n-propylamine	ND	U	0.8	ug/L	ND	U	3.16	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	N-Nitrosodiphenylamine	ND	U	1	ug/L	ND	U	3.44	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Pentachlorophenol	ND	U	1	ug/L	ND	U	5.42	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Phenanthrene	ND	U	1	ug/L	ND	U	0.691	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Phenol	ND	U	1	ug/L	ND	U	4.31	ug/L
AA3-GW003	01/25/2005	15:40	SW8270C	Pyrene	ND	U	1	ug/L	ND	U	0.730	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	1,3,5-Trinitrobenzene	ND	U	0.14	ug/L	ND	U	0.0475	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	1,3-Dinitrobenzene	ND	U	0.096	ug/L	ND	U	0.0645	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	2,4,6-Trinitrotoluene	ND	U	0.14	ug/L	ND	U	0.138	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	2,4-Dinitrotoluene	ND	U	0.14	ug/L	ND	U	0.103	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	2,6-Dinitrotoluene	ND	U	0.14	ug/L	ND	U	0.193	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	2-Amino-4,6-Dinitrotoluene	ND	U	0.14	ug/L	ND	U	0.101	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	2-Nitrotoluene	ND	U	0.14	ug/L	ND	U	0.198	ug/L

Location	Date	Time	Method	Analyte	QA Result		QA DL	Units	Primary Result		Prim DL	Units
AA3-GW003	01/25/2005	15:40	SW8330	3-Nitrotoluene	ND	U	0.14	ug/L	ND	U	0.365	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	4-Amino-2,6-Dinitrotoluene	ND	U	0.14	ug/L	ND	U	0.206	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	4-Nitrotoluene	ND	U	0.14	ug/L	ND	U	0.179	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	HMX	ND	U	0.14	ug/L	ND	U	0.0676	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	Nitrobenzene	ND	U	0.088	ug/L	ND	U	0.107	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	RDX	ND	U	0.14	ug/L	ND	U	0.0830	ug/L
AA3-GW003	01/25/2005	15:40	SW8330	Tetryl	ND	U	0.14	ug/L	ND	U	0.203	ug/L
AA3-GW003	01/25/2005	15:40	SW9012A	Cyanide	ND	U	5	ug/L	ND	U	0.0070	mg/L

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ATTACHMENT II QA DATA SUMMARY
ATTACHEMNT III DATA COMPARISON

ABBREVIATIONS AND ACRONYMS

CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
ISA	Internal Standard Area
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDL	Method Detection Limit
mg/L	milligram per Liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PAH	Polycyclic Aromatic Hydrocarbon
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TCL	Target Compound List
µg/L	microgram per Liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency

Introduction

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the surface water and sediment sampling event performed by Jacobs Engineering, Inc. at Acid Areas 2 and 3 at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio during May and June 2006. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of three surface water and three sediment QA samples that were collected in conjunction with the project Quality Control (QC) samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Sample Number Correlation. The QA data are tabulated in Attachment II, QA Data Summary. Data tables comparing the QC and QA data are presented in Attachment III, Data Comparison.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocol:

- *Test Methods for Evaluating Solid Waste,* SW-846, 3rd Edition, USEPA, November 1986, (SW-846)

Specific analytical methods used include the following:

- SW-846 8260B – volatile organic compounds by gas chromatography/mass spectrometry capillary column technique
- SW-846 8270C – semivolatile organic compounds
- SW-846 8270_PAH – polycyclic aromatic hydrocarbons (PAHs);
- SW-846 8330 – nitroaromatic compounds (referred to as explosives hereafter);
- SW-846 8082 – polychlorinated biphenyls (PCBs)
- SW864 6010B – total metals by inductively coupled argon plasma spectrophotometer (ICAP)
- SW846 6020 – total metals by inductively coupled argon plasma spectrophotometer/mass spectrometry (ICP/MS)
- SW846 7470A – mercury in water (manual cold-vapor technique)
- SW846 7471A -- mercury in solid or semisolid waste (manual cold-vapor technique)
- SW846 9014T – total and amenable cyanide (titrimetric and manual spectrophotometric determinative methods)

Analytical Laboratories

The following analytical laboratory was contracted to analyze the Primary/QC field sample for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115; Fax (615) 846-5426

The following analytical laboratory was contracted to analyze the QA field samples for this project:

GPL Laboraties, LLLP
7210A Corporate CT
Frederick, MD 21703
Phone: (301) 694-5310; Fax (301) 620-0731

Both laboratories have been validated by the United States Army Corps of Engineers (UASCE).

Data Evaluation Procedures

The quality of these data has been evaluated following procedures consistent with those included in the Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects,* 10 October 1997, the "Louisville Chemistry Guideline, Revision 5," Louisville District Environmental Engineering Branch, June 2002., the *"Department of Defense Quality Systems Manual for Environmental Laboratories, Final Version 3,"* DoD Environmental Data Quality Workgroup, January 2006, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The following data quality issues were addressed in this evaluation:

- Review chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review field QC blank data to detect contamination from outside sources;
- Review QC data to evaluate data reproducibility;
- Review laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates

- Assign appropriate qualifiers to useable data, qualify unusable data as rejected, if necessary; and

- Present data evaluation in terms of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

Data qualifiers were assigned to the analytical results as part of the data review process. Definitions of these data qualifiers, which are consistent with those used within the *Functional Guidelines* referenced above, are provided below.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is an estimate and my not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

B – The B flag is to be used for both organic and inorganic analyses when the analyte is found in the associated blank as well as the in the sample. The result is considered ND, and the reported value is considered to be an estimated CRQL.

JB - The analyte was detected in the sample at a value between the method detection limit and the method quantitation limit; the analyte was also detected in the associated blank. The associated numerical value is considered ND, and the reported value is considered to be an estimated CRQL.

UR - The analyte result was non-useable due to a QC non-conformance, and was rejected.

T – The analyte was detected between the method detection limit, but below the method quantitation limit. The value is considered an estimate.

I. QC DATA EVALUATION

The data evaluation of the QC data is summarized below. All analyses were run under SDGs Plumbrook S003 (sediment), S004 (sediment), W003 (surface water), and W004 (surface water).

A. Accuracy:

1) Polycyclic Aromatic Hydrocarbons

- Holding times were met for all sediment and surface water analyses.

- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses.
- The LCS %Rs were marginally low for several aqueous PAH compounds in several extraction batches, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were marginally low for naphthalene and 2-methylnaphthalene in all sediment batches, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- Surrogate recoveries were marginally low in several aqueous and sediment samples, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects)..
- All internal standard area responses (ISAs) and retention times were within control limits except for perylene-d12, which was below the lower control limit in samples PBOW-06-SD-AA2-SD04-A, PBOW-06-SD-AA2-SD07-D, PBOW-06-SD-AA2-SD18-D, and PBOW-06-SD-AA3-SD08-D, resulting in compounds associated with the internal standard be qualified as estimated (coded "J") for detects and non-usable (rejected) for non-detects..
- DFTPP Tune passed method acceptance criteria.
- The initial calibration was acceptable for all compounds in all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all compounds in all sediment and surface water analysis.

2) <u>Semi-Volatile Organic Compounds</u>

- Holding times were met for all sediment and surface water analyses except surface water samples PBOW-06-SW-AA2-SW15-A, PBOW-06-SW-AA2-SW16-A, and PBOW-06-SW-AA2-SW19-A, which were re-extracted outside of the recommended seven day hold time; all results for these three samples were qualified as estimated (coded "J" for detects, and "UJ" for non-detects).
- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses with the exception of low recoveries of benzoic acid and several other compounds in aqueous sample PBOW-06-SW-AA2-SW06-A; low recoveries of benzoic acid, 2,4-dinitrophenol, N-nitroso-dimethylamine, 4-nitroaniline, and phenol PBOW-06-SW-AA3-SW04-A; and low recoveries of benzoic acid in sediment sample PBOW-06-SD-AA2-SD-12A. Benzoic acid results in all samples and 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, phenol, and 2,4,5-trichlorophenol in sample PBOW-06-SW-AA2-SW06-A were qualified as non-usable (rejected); all other compound results in the associated parent samples were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were marginally low for several compounds in several sediment and surface water extraction batches. Associated sample compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were extremely low for benzoic acid in several sediment and surface water extraction batches. Associated sample non-detect benzoic acid results were qualified as non-usable (rejected).

- Surrogate recoveries for several sediment and surface water analyses were within the control criteria limits. Associated sample compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- All internal standard area responses (ISAs) and retention times for all sediment and surface water samples were within control limits.
- DFTPP Tune passed method acceptance criteria for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds in all sediment and surface water samples.
- The continuing calibration verification was acceptable for all compounds except for benzyl alcohol in one aqueous CCV, and 1,2,4-trichlorobenzene in another aqueous CCV. Non-detect sample results in associated samples were qualified as estimated (coded "UJ").

3) Volatile Organic Compounds

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses.
- The LCS %Rs were within control criteria limits with the exception of acetone in analytical batch. Results for acetone in associated samples were qualified as estimated (coded "J").
- Surrogate recoveries for all sediment and surface water analyses were within the control criteria limits.
- All internal standard area responses (ISAs) and retention times were within control limits for all sediment and surface water analyses.
- BFB Tune passed method acceptance criteria for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

4) Explosives

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for sediment and surface water analyses.
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- Surrogate recoveries for all sediment and surface water aanalyses were within the control limits.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.

- The continuing calibration verification was acceptable for all sediment and surface water analyses.

5) Polychlorinated Biphenyls

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for sediment and surface water analyses.
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- Surrogate recoveries for all sediment and surface water aanalyses were within the control limits.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

6) Total Metals and Cyanide

- Holding times were met for all analyses.
- All MS and MSD %Rs were within control criteria limits except for the antimony recoveries in sediment samples. All antimony results were qualified as estimated (coded "J").
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

B. Precision:

1) Polycyclic Aromatic Hydrocarbons

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits.

2) Semi-volatile Organic Compounds

All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits

3) Volatile Organic Compounds

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits

4) Explosives

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits
- Results for several detected compounds in sediment samples were qualified as estimated (coded "J") due high RPD between primary and confirmatory columns due to matrix interferences.

5) Polychlorinated Biphenyls

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits.

6) Total Metals and Cyanide

- All MS/MSD RPDs were within control criteria limits for sediment and surface water analyses.
- All matrix duplicate RPDs were within control criteria limits except for aluminum, arsenic, chromium, iron and manganese in sediment sample PBOW-06-SD-AA3-SD12-A and aluminum, chromium, iron, lead, magnesium, manganese, and zinc in sediment sample PBOW-06-SD-AA2-SD11-A. Associated detects in the respective extraction batches were qualified as estimated (coded "J").
- The serial dilution %Ds were within control criteria limits except for potassium in sediment sample PBOW-06-SD-AA3-SD12A. Potassium results in the associated extraction batch were qualified as estimated (coded "J").

C. Laboratory Contamination:

1) Polycyclic Aromatic Hydrocarbons

- Naphthalene was detected in one aqueous method blank. Naphthalene detects in the associated samples were qualified with a "B", indicating the sample results may be false positives.

2) Semi-volatile Organic Compounds

- Bis(2-ethylhexyl)phthalate and/or diethylphthalate were detected in one or more aqueous method blanks. Detects in associated samples were qualified with a "B", indicating the sample results may be false positives.

3) Volatile Organic Compounds

- Acetone and/or toluene were detected in one or more sediment method blank. Detects in associated samples were qualified with a "B", indicating the sample results may be false positives.

2) Explosives

- No contamination was found in any of the associated laboratory blanks.

3) Polychlorinated Biphenyls

- No contamination was found in any of the associated laboratory blanks.

4) Total Metals and Cyanide

- Mercury was detected in both sediment digestion blanks. Mercury results for all sediment samples except PBOW-06-SD-AA2-SD20-A were qualified with "B", indicating results may be false positives. The mercury concentration in PBOW-06-SD-AA2-SD20A was greater than 5x the blank concentration (adjusted for digestion volume and dry weight), so no qualifications were applied.

II. QA DATA EVALUATION

The data evaluation of the QA data is summarized below. All analyses were run under SDGs 605127-GPEG (surface water samples) and 606086-GPEG (sediment samples)

A. Accuracy:

1) Volatile Organic Compounds

- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate recoveries were within control limits except for Toluene-d8 in sample SW-AA2-SW10-B, which was below the laboratory lower limit but within QAPP limits. No qualifiers necessary.
  - Internal standard area responses (ISAs) and retention times were within control limits.
  - BFB tune passed method acceptance criteria.
  - Initial calibration was acceptable for all compounds except acetone, 2-butanone, t-butanol, and cyclohexanone (>30%RSD). No detects in associated field samples. No qualifiers necessary.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable except as follows:
    - Acetone (76%D). All field samples were non-detect and qualified as estimated (UJ).

        - t-butyl alcohol and 1,2-dibromo-3-chloropropane (>25%D). No detects in associated field samples. No qualifiers necessary.
- Sediment Samples
    - Holding times were met for all analyses.
    - MS and MSD samples were not analyzed for this method.
    - LCS recoveries were within control limits except for the following:
        - LCS sample BKS82217: acetone, bromomethane, and chloroethane had recoveries greater than the upper control limit, but within laboratory control limits. No detects in the associated field sample. No qualifiers necessary.
        - LCS sample BKS82225: 2-butanone, acetone, and bromomethane had recoveries greater than the upper control limit, but within laboratory control limits. No detects in associated field samples. No qualifiers necessary.
    - Surrogate recoveries were within control limits except for Toluene d8 in samples SD-AA2-SD18B-RE and SD-AA3-SD08B0RE, which were below the laboratory lower limit but within QAPP limits. No qualifiers necessary.
    - Internal standard area responses (ISAs) and retention times were within control limits.
    - BFB tune passed method acceptance criteria.
    - Initial calibration was acceptable for all compounds except acetone (>30%RSD). No detects in associated field samples. No qualifiers necessary.
    - Initial calibration verification was within acceptance criteria for all compounds.
    - Continuing calibration verification was acceptable except as follows:
        - 06/16/2006 Calibration:
            - Acetone (40.8%D) and bromomethane (24.2%D). No detects in associated field samples. No qualifiers necessary.
        - 06/19/2006 Calibration:
            - Bromomethane (29.7%D), chloroethane (26.7%D), and 2-butanone (30.8%D). No detects in associated field samples. No qualifiers necessary.
            - Acetone (60.0%D). No detects in associated field samples. Results were qualified as estimated (UJ).

2) Semivolatile Organic Compounds

- Surface Water Samples
    - Holding times were met for all analyses.
    - MS and MSD samples were not analyzed for this method.
    - LCS recoveries were within control limits except for 4-nitrophenol and pentachlorophenol which exceeded the upper control limit in both the LCS and the LCSD samples. No detects of acidic compounds in associated field samples. No qualifiers necessary.
    - Surrogate recoveries were within control limits except for the following:
        - p-terphenyl-d14 recovery was less than the lower control limit in sample SW-AA3-SW07-B. The following associated compounds in this sample were qualified as estimated (J/UJ).

- pyrene, butylbenzylphthalate, 3,3'-dichlorobenzidene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate), di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene

  - p-terphenyl-d14 recovery was less than the lower control limit in sample SW-AA2-SW10-B, but was within laboratory control limits. The following associated compounds in this sample were qualified as estimated (J/UJ).
    - pyrene, butylbenzylphthalate, 3,3'-dichlorobenzidene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate), di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene
  - 2,4,6-tribromophenol recovery was greater than the laboratory upper control limit, but within the QAPP control limits. No qualifiers necessary.

- All internal standard area responses (ISAs) and retention times were within control limits.
- DFTPP Tune passed method acceptance criteria.
- Initial calibration was acceptable for all compounds except as follows:
  - benzaldehyde (45%RSD). No detects in associated field samples. No qualifiers necessary.
  - 2,4-dinitrophenol (31.1%RSD). No detects in associated field samples. No qualifiers necessary.
  - 3,3'-dichlorobenzidene (36.3%RSD). No detects in associated field samples. No qualifiers necessary.
- Initial calibration verification was within acceptance criteria for all compounds except as follows:
  - 4-methylphenol and benzoic acid (>130%R). No detects in associated field samples. No qualifiers necessary.
  - 4-nitroaniline, carbazole, and hexachlorocyclopentadiene (60 – 80%R). Results were qualified as estimated (J/UJ).
  - 3-nitroanaline (<70%R). Associated field sample results were all non-detect and qualified as rejected (R).
- Continuing calibration verification was acceptable except as follows:
  - N-nitrosodiphenylamine (28.8%D). No detects in associated field samples. No qualifiers necessary.
  - Atrazine (26.5%D). No detects in associated field samples. No Qualifiers necessary.

- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for the following:
    - 2,4-dinitrotoluene and phenol were greater than the laboratory upper control limit but were within the QAPP control limits. No qualifiers necessary.

        - 2-nitrophenol was greater than the upper control limit. No detects in associated field samples. No qualifiers necessary.
    - LCS recoveries were within control limits except for the following:
        - 2-nitrophenol was greater than the upper control limit. No detects of acidic compounds in associated field samples. No qualifiers necessary.
    - Surrogate spike recoveries were within control limits except for the following:
        - nitrobenzene-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
        - 2,4,6-tribromophenol recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
        - phenol-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in samples SD-AA2-SD07B and SD-AA2-SD18B. No qualifiers necessary.
        - p-terphenyl-d14 recovery was greater than the upper control limit in sample SD-AA2-SD07B. The following associated detected compounds were qualified as estimated (J).
            - pyrene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate),
    - All internal standard area responses (ISAs) and retention times were within control limits.
    - DFTPP Tune passed method acceptance criteria.
    - Initial calibration was acceptable for all compounds except as follows:
        - benzaldehyde (42.5%RSD). No detects in associated field samples. No qualifiers necessary.
        - hexachlorocyclopentadiene (33.7%RSD). No detects in associated field samples. No qualifiers necessary.
        - 2,4-dinitrophenol (39.0%RSD). No detects in associated field samples. No qualifiers necessary.
        - 3,3'-dichlorobenzidene (36.3%RDS). No detects in associated field samples. No qualifiers necessary.
    - Initial calibration verification was within acceptance criteria for all compounds.
    - Continuing calibration verification was acceptable except as follows:
        - hexachlorocyclopentadiene (36.5%D).
        - 3-nitroaniline (36.5%D).
        - 4-nitrophenol (32.6%D).
        - 4-nitroaniline (44.3%D).
        - carbazole (32.1%D).
        - butylbenzylphthalate (27.1%D).
        - bis (2-ethylhexylphthalate) (29.6%D). Associated field sample detects were qualified as estimated (J).
        - atrazine (53.9%D). Associated field sample results were qualified as estimated (J/UJ).

3) <u>Polycyclic Aromatic Hydrocarbons</u>
    - Surface Water Samples

- Holding times were met for all analyses.
- MS and MSD samples were not analyzed for this method.
- LCS recoveries were within control limits.
- Surrogate spike recoveries were within control limits.
- All internal standard area responses (ISAs) and retention times were within control limits.
- DFTPP Tune passed method acceptance criteria.
- Initial calibration was acceptable for all compounds.
- Initial calibration verification was within acceptance criteria for all compounds.
- Continuing calibration verification was acceptable for all compounds.

- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for the following:
    - Benzo(a)pyrene (49%D) was less than the laboratory lower control limit but within QAPP control limits. No qualifiers necessary.
  - LCS recoveries were within control limits except for the following:
    - Acenaphthylene recover was greater than the laboratory upper control limit but within the QAPP control limits. No qualifiers necessary.
  - Surrogate spike recoveries were within control limits except for the following:
    - nitrobenzene-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
  - All internal standard area responses (ISAs) and retention times were within control limits.
  - DFTPP Tune passed method acceptance criteria.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.

4) Explosives

- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for nitrobenzene which exceeded the laboratory upper control limit but was within QAPP control limits. No qualifiers necessary.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.

- Initial calibration verification was within acceptance criteria for all compounds.
- Continuing calibration verification was acceptable for all compounds.

5) Polychlorinated Biphenyls
- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits except for the following:
    - tetrachloro-m-xylene was marginally low (38%) in both columns in sample SD-AA2-SD07B. Associated field sample results were qualified as estimated (J/UJ).
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.

6) Total Metals and Cyanide
- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits.
  - LCS recoveries were within control limits.
  - Initial calibration was acceptable for all analytes.
  - Initial calibration verification was within acceptance criteria for all analytes.
  - Continuing calibration verification was acceptable for all analytes.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD were analyzed on samples not from Plum Brook.
  - LCS recoveries were within control limits.
  - Initial calibration was acceptable for all analytes.
  - Initial calibration verification was within acceptance criteria for all analytes.
  - Continuing calibration verification was acceptable for all analytes.

B. Precision:

1) Volatile Organic Compounds
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.

- No LCSD samples were analyzed for this method.

- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits except the following. No records were qualified due to MS/MSD RPD exceedances.
    - 2-butanone (68%RPD)
    - 2-hexanone (113%RPD)
    - 4-methyl-2-pentanone (40%RPD)
  - No field duplicate samples were analyzed for this method.
  - No LCSD samples were analyzed for this method.

2) Semivolatile Organic Compounds
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - LCS/LCSD RPDs were within acceptable limits.

3) Polycyclic Aromatic Hydrocarbons
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
  - .

4) Explosives
- Surface Water Samples
  - MS/MSD RPD values within acceptable range.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.

5) Polychlorinated Biphenyls
- Surface Water Samples

- MS/MSD RPD values within acceptable range.
- No field duplicate samples were analyzed for this method.
- LCS/LCSD RPDs were within acceptable limits.

- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.

6) Total Metals and Cyanide
   - Surface Water Samples
     - MS/MSD RPD values within acceptable range.
     - No field duplicate samples were analyzed for this method.
     - No LCSD samples were analyzed for this method.
     - Serial dilution results were within limits except for the following:
       - Copper (206%). Sample concentration <50X IDL. No qualifiers necessary.
       - Silver (100%). Sample concentration <50X IDL. No qualifiers necessary.
       - Thallium (132%). Sample concentration <50X IDL. No qualifiers necessary.
       - Zinc (122%). Sample concentration <50X IDL. No qualifiers necessary.
   - Sediment Samples
     - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
     - No field duplicate samples were analyzed for this method.
     - No LCSD samples were analyzed for this method.
     - Serial dilution analyzed on samples not from Plum Brook.

C. Sensitivity

1) Volatile Organic Compounds
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

2) Semivolatile Organic Compounds
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

3) Polycyclic Aromatic Hydrocarbons
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples

- MDLs support sensitivity requirements.

4) Explosives
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

5) Polychlorinated Biphenyls
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

6) Total Metals and Cyanide
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

D. Laboratory Contamination:

1) Volatile Organic Compounds
   - Surface Water Samples
     - Acetone and methylene chloride were detected in the method blank.
       - Acetone: No detects in associated field samples. No qualifiers necessary.
       - Methylene chloride: Detected in all associated field samples. Results were qualified to indicate blank contamination (JB).
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

2) Semivolatile Organic Compounds
   - Surface Water Samples
     - No detected target compounds in associated laboratory blanks.
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

3) Polycyclic Aromatic Hydrocarbons
   - Surface Water Samples
     - No detected target compounds in associated laboratory blanks.
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

4) Explosives
   - Surface Water Samples

- No detected target compounds in associated laboratory blanks.
- Sediment Samples
  - No detected target compounds in associated laboratory blanks.

5) Polychlorinated Biphenyls
- Surface Water Samples
  - No detected target compounds in associated laboratory blanks.
- Sediment Samples
  - No detected target compounds in associated laboratory blanks.

6) Total Metals and Cyanide
- Surface Water Samples
  - Barium, calcium, cobalt, copper, magnesium, sodium, thallium and zinc were detected in laboratory blanks. The following records have been qualified to indicate blank contamination.
    - All field sample copper results were qualified (B/JB).
    - The thallium result for one field sample, SW-AA2-SW21, was qualified (JB).
    - Two zinc detections in field samples SW-AA2-SW10 and SW-AA2-SW21 were qualified (B).
- Sediment Samples
  - Cadmium and sodium were detected in laboratory blanks. The following records have been qualified to indicate blank contamination.
    - All field sample cadmium results were qualified (B/JB).
    - All field sample sodium results were qualified (B/JB).

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a data comparison of the QA and QC data was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
All	All	>5x difference when one result is < DL	>10x difference when one result is < DL
All	All	>3x difference when one result is < RL	>5x difference when one result is < RL
Water	All	>2x difference	>3x difference
Soil	VOCs only	>5x difference	>10x difference
Soil	Metals only	>2x difference	>3x difference
Soil	All except VOCs and metals	>4x difference	>5x difference

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Various factors can contribute to duplicate

disagreement, including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends ore extreme non-conformances exist, associated data were evaluated carefully to determine their validity. It should be noted that samples found in disagreement did not necessarily indicate an error had been made or inappropriate procedures used.

Attachment III presents tables that show a side-by-side comparison of the analytical results of the field QC and QA samples. A summary of the evaluation of this comparison is presented below.

A. Volatile Organic Compounds

- Surface Water Samples – no disagreements.
- Sediment Samples – one disagreement.
    - Methylcyclohexane was reported at a concentration of 10 ug/Kg in one primary laboratory sample. The corresponding QA sample was non-detect with an MDL of 1.9 ug/Kg and a PQL of 9.6 ug/Kg. The detected concentration is 5.26 times the non-detect MDL.

B. Semivolatile Organic Compounds

- Surface Water Samples – no disagreements.
- Sediment Samples – 1 disagreement.
    - Fluoranthene was reported in one primary laboratory sample at a concentration of 43 ug/Kg which is below the PQL of 84. The corresponding QA sample was reported at a concentration of 21 ug/Kg. The primary sample MDL and PQL are both greater than the QA sample reported concentration. The primary laboratory sample estimated concentration of 43 ug/Kg is only 2.0 time the QA sample concentration. If the estimated primary sample concentration is treated as a positive detection, there is no disagreement.

C. Polycyclic Aromatic Hydrocarbons

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

D. Explosives

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

E. Polychlorinated Biphenyls

- Surface Water Samples – no disagreements.
- Sediment Samples – 1 major disagreement.
    - PCB-1260 was reported in one primary laboratory sample at a concentration of 760 ug/Kg. The concentration in the corresponding QA sample was reported at

74 ug/Kg. The primary laboratory sample concentration is 10.3 times the reported QA laboratory sample concentration.

F. Total Metals

- Surface Water Samples – 4 disagreements, 3 major disagreements.
  - Cobalt was reported as not-detected in three primary laboratory samples with an MDL of 3.0 ug/L and a PQL of 12.5 ug/L. The corresponding QA samples reported detections of 0.43, 0.18, and 0.098 ug/L. The QA sample concentrations are all much lower than the primary laboratory MDL for cobalt. The primary laboratory analyzed cobalt by method SW6010 while the QA laboratory used method SW6020.
  - Iron was reported in two primary laboratory samples at concentrations of 307 and 102 ug/L. The corresponding QA sample reported concentrations of 971 and 284 ug/L respectively. The QA sample concentrations are 3.2 and 2.8 times the primary laboratory samples (major disagreement and disagreement). The primary laboratory analyzed iron by method SW6010 while the QA laboratory used method SW6020.
  - Manganese was reported in one primary laboratory sample at a concentration of 9.1 ug/L which is below the PQL of 15 ug/L. The corresponding QA sample concentration was reported at 60.5 ug/L. (major disagreement) The primary laboratory analyzed manganese by method SW6010 while the QA laboratory used method SW6020.
  - Thallium was reported as a non-detect in one primary laboratory sample with an MDL of 3.0 ug/L and a PQL of 10 ug/L. The corresponding QA sample concentration was reported at 0.3 ug/L which is much lower than the primary laboratory MDL. The primary laboratory analyzed thallium by method SW6010 while the QA laboratory used method SW6020.

- Sediment Samples – 2 major disagreements.
  - Cadmium was reported in two primary laboratory samples at concentrations of 0.44 and 0.51 ug/Kg which are below the PQLs of 1.3 and 1.7 ug/Kg. The corresponding QA samples were reported with concentrations of 0.11 and 0.15 ug/Kg which are both below the primary laboratory reporting limits of 0.27 and 0.34 ug/Kg.

G. Cyanide

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. Qualifiers were added to specific data results to indicate estimated concentrations when data results were not within specific validation criteria. All of the results were considered

usable except for 56 records that were qualified as rejected/non-detect due to laboratory QC problems. The following data were rejected:

- Semivolatile Organic Compounds – Sediment – Primary Laboratory
  - Benzoic acid (22 samples)
- Semivolatile Organic Compounds – Surface Water – Primary Laboratory
  - 2,4,5- Trichlorophenol (1 sample)
  - 2,4-Dinitrophenol (1 sample)
  - 4,6-Dinitro-2-methylphenol (1 sample)
  - 4-Nitrophenol (2 samples)
  - Benzoic acid (17 samples)
  - Pentachlorophenol (1 sample)
  - Phenol (1 sample)
- Semivolatile Organic Compounds – Surface Water – QA Laboratory
  - 3-Nitroaniline (3 samples)
- Polycyclic Aromatic Hydrocarbons – Sediment – Primary laboratory
  - Benzo(a)pyrene (1 sample)
  - Benzo(b)fluoranthane (1 sample)
  - Benzo(g,h,i)perylene (1 sample)
  - Benzo(k)fluoranthene (1 sample)
  - Dibenz(a,h)anthracene (2 samples)
  - Indeno(1,2,3-cd)pyrene (1 sample)

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. A total of 56 results (0.2%) were found to be unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

The disagreements between the primary and QA laboratory were minimal and were often associated with the analytical methodology used. In most cases, the MDLs and PQLs from both laboratories were under any action level or Region IX PRG values. The only exception is for thallium in surface water, where the action level of 0.24 µg/l was only achieved using method SW6020.

ATTACHEMNT I – SAMPLE CORRELATION

Plum Brook Acid Areas 2 and 3

ELAB Primary Laboratory and GPL QA Confirmation Laboratory Sample Cross Reference

Lab	Sample Date/Time	Location	Field Sample ID	Lab Sample_id	SDG	Method(s)
Sediment Samples						
Primary - ELAB	6/12/2006 10:35	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30DLN1	PLUMBROOKS004-	SW8082
Primary - ELAB	6/12/2006 10:35	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-004-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-011-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-015-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Primary - ELAB	6/12/2006 11:15	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32DLN1	PLUMBROOKS004-	SW8082
Primary - ELAB	6/12/2006 11:15	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-007-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-008-2/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-012-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-017-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Primary - ELAB	6/12/2006 08:40	AA3-SWSD-08	PBOW-06-SD-AA3-SD08-A	0606089-34N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-001-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-002-2/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-010-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-013-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Surface Water Samples						
Primary - ELAB	5/21/2006 11:00	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605288-19N1	PLUMBROOKW004-	SW8260
Primary - ELAB	5/21/2006 11:00	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605305-05N1	PLUMBROOKW004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-005-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-011-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-017-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-021-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-024-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-031-1/3N1	SDG605127-GPEG	SW8260B
Primary - ELAB	5/20/2006 12:20	AA2-SWSD-21	PBOW-06-SW-AA2-SW21-A	0605288-06N1	PLUMBROOKW003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-003-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-009-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-015-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-020-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-023-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-028-1/3N1	SDG605127-GPEG	SW8260B
Primary - ELAB	5/19/2006 14:20	AA3-SWSD-07	PBOW-06-SW-AA3-SW07-A	0605270-07N1	PLUMBROOKW003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-001-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-007-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-013-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-019-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-022-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-025-1/3N1	SDG605127-GPEG	SW8260B

ATTACHEMNT II – QA DATA SUMMARIES

Volatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	1.6 U	1.6 U	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	1.4 U	1.4 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.95 U	0.95 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	1.4 U	1.4 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	2 U	2 U	2 U
SW8260	1,2,4-Trichlorobenzene	ug/L	1.7 U	1.7 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	2.6 U	2.6 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.95 U	0.95 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.65 U	0.65 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.97 U	0.97 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4.2 U	4.2 U	4.2 U
SW8260	2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	2 U	2 U	2 U
SW8260	Acetone	ug/L	2.6 UJ	2.6 UJ	2.6 UJ
SW8260	Benzene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	Bromodichloromethane	ug/L	0.96 U	0.96 U	0.96 U
SW8260	Bromoform	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Bromomethane	ug/L	3.2 U	3.2 U	3.2 U
SW8260	Carbon Disulfide	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	2.1 U	2.1 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.81 U	0.81 U	0.81 U
SW8260	Chloroethane	ug/L	2.6 U	2.6 U	2.6 U
SW8260	Chloroform	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Chloromethane	ug/L	1.5 U	1.5 U	1.5 U
SW8260	Cyclohexane	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.49 U	0.49 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	1.8 U	1.8 U	1.8 U
SW8260	Ethylbenzene	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	1.3 U	1.3 U	1.3 U
SW8260	Methyl Acetate	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Methylcyclohexane	ug/L	1.8 U	1.8 U	1.8 U
SW8260	Methylene Chloride	ug/L	6.4 JB	5.6 JB	6.2 JB
SW8260	Styrene	ug/L	1 U	1 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.6 U	0.6 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	2.3 U	2.3 U	2.3 U
SW8260	Toluene	ug/L	1.1 U	1.1 U	1.1 U
SW8260	Trichloroethene (TCE)	ug/L	1.9 U	1.9 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	1.9 U	1.9 U	1.9 U

J - Estimated Value, U - Non-detection, ,jected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
SW8260	Vinyl chloride	ug/L	2.1 U	2.1 U	2.1 U
SW8260	cis-1,2-Dichloroethene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.96 U	0.96 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L	2.1 U	2.1 U	2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L	1.3 U	1.3 U	1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	1.5 U	1.5 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.87 U	0.87 U	0.87 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Semivolatile Organic Compounds				
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L	0.78 U	0.74 U	0.75 U
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 U	1 U	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	0.92 U	0.87 U	0.88 U
SW8270	2,4-Dichlorophenol	ug/L	1.8 U	1.7 U	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1.7 U	1.6 U	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	7.3 U	6.9 U	7 U
SW8270	2,4-Dinitrotoluene	ug/L	1.3 UJ	1.3 U	1.3 UJ
SW8270	2,6-Dinitrotoluene	ug/L	0.95 UJ	0.89 U	0.91 UJ
SW8270	2-Chloronaphthalene	ug/L	0.52 UJ	0.49 U	0.5 UJ
SW8270	2-Chlorophenol	ug/L	0.82 U	0.76 U	0.78 U
SW8270	2-Methylnaphthalene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.6 U	1.5 U	1.5 U
SW8270	2-Nitroaniline	ug/L	0.84 UJ	0.79 U	0.8 UJ
SW8270	2-Nitrophenol	ug/L	2.2 U	2.1 U	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	7 UJ	6.6 U	6.7 UJ
SW8270	3-Nitroaniline	ug/L	UR	UR	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	4.8 U	4.4 U	4.6 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1.4 UJ	1.3 U	1.4 UJ
SW8270	4-Chloro-3-methylphenol	ug/L	2 U	1.9 U	1.9 U
SW8270	4-Chloroaniline	ug/L	1.9 UJ	1.8 U	1.8 UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 UJ	0.97 U	0.99 UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	3 U	2.8 U	2.8 U
SW8270	4-Nitroaniline	ug/L	2.1 UJ	2 UJ	2 UJ
SW8270	4-Nitrophenol	ug/L	3.9 U	3.6 U	3.7 U
SW8270	Acenaphthene	ug/L	0.6 UJ	0.56 U	0.57 UJ
SW8270	Acenaphthylene	ug/L	0.56 UJ	0.53 U	0.54 UJ
SW8270	Acetophenone	ug/L	0.9 UJ	0.85 U	0.86 UJ
SW8270	Anthracene	ug/L	1.1 UJ	1 U	1 UJ
SW8270	Atrazine	ug/L	1.6 UJ	1.5 U	1.5 UJ
SW8270	Benzaldehyde	ug/L	3 UJ	2.8 U	2.8 UJ
SW8270	Benzo(a)anthracene	ug/L	0.96 UJ	0.9 U	0.92 UJ
SW8270	Benzo(a)pyrene	ug/L	0.61 UJ	0.57 U	0.58 UJ
SW8270	Benzo(b)fluoranthene	ug/L	0.66 UJ	0.62 U	0.64 UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1.5 UJ	1.4 U	1.4 UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 UJ	0.99 U	1 UJ
SW8270	Benzyl butyl phthalate	ug/L	0.97 UJ	0.91 U	0.93 UJ
SW8270	Biphenyl (Diphenyl)	ug/L	0.36 UJ	0.34 U	0.34 UJ
SW8270	Caprolactam	ug/L	1.6 UJ	1.6 U	1.6 U
SW8270	Carbazole	ug/L	1.4 UJ	1.3 UJ	1.4 UJ
SW8270	Chrysene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	Di-n-butylphthalate	ug/L	1.9 UJ	1.8 U	1.8 UJ
SW8270	Di-n-octylphthalate	ug/L	1.4 UJ	1.3 U	1.4 UJ

J - Estimated Value, U - Non-detection, acted, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
SW8270	Dibenz(a,h)anthracene	ug/L	1.5 UJ	1.4 U	1.4 UJ
SW8270	Dibenzofuran	ug/L	0.8 UJ	0.76 U	0.77 UJ
SW8270	Diethylphthalate	ug/L	3.7 UJ	3.4 U	3.5 UJ
SW8270	Dimethylphthalate	ug/L	3.4 UJ	3.2 U	3.2 UJ
SW8270	Fluoranthene	ug/L	1.4 UJ	1.3 U	1.4 UJ
SW8270	Fluorene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	Hexachlorobenzene	ug/L	1.2 UJ	1.2 U	1.2 UJ
SW8270	Hexachlorobutadiene	ug/L	0.54 UJ	0.51 U	0.52 UJ
SW8270	Hexachlorocyclopentadiene	ug/L	4.6 UJ	4.3 UJ	4.4 UJ
SW8270	Hexachloroethane	ug/L	0.47 UJ	0.44 U	0.45 UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.3 UJ	1.2 U	1.2 UJ
SW8270	Isophorone	ug/L	0.61 UJ	0.57 U	0.58 UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.79 UJ	0.74 U	0.76 UJ
SW8270	N-Nitrosodiphenylamine	ug/L	0.99 UJ	0.93 U	0.95 UJ
SW8270	Naphthalene	ug/L	0.48 UJ	0.45 U	0.46 UJ
SW8270	Nitrobenzene	ug/L	0.56 UJ	0.53 U	0.54 UJ
SW8270	Pentachlorophenol	ug/L	2.9 U	2.8 U	2.8 U
SW8270	Phenanthrene	ug/L	1.6 UJ	1.5 U	1.6 UJ
SW8270	Phenol	ug/L	1.3 U	1.2 U	1.3 U
SW8270	Pyrene	ug/L	0.67 UJ	0.63 U	0.65 UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	0.59 UJ	0.55 U	0.56 UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	0.86 UJ	0.81 U	0.82 UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	7.4 JB	6.5 JB	4.3 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Polyaromatic Hydrocarbon (PAH) Compounds				
SW8270 PAH	Acenaphthene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Acenaphthylene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Anthracene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.04 U	0.04 U	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.021 U	0.02 U	0.021 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.01 U	0.01 U	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Chrysene	ug/L	0.021 U	0.02 U	0.021 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.01 U	0.01 U	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.052 U	0.051 U	0.052 U
SW8270 PAH	Fluorene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.03 U	0.03 U	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Phenanthrene	ug/L	0.042 U	0.04 U	0.042 U
SW8270 PAH	Pyrene	ug/L	0.031 U	0.03 U	0.031 U

Polychlorinated Biphenyls (PCBs) in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.08 U	0.07 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.29 U	0.28 U	0.27 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.46 U	0.44 U	0.43 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.1 U	0.09 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.07 U	0.06 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.24 U	0.23 U	0.22 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.08 U	0.07 U	0.07 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.054 U	0.054 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.036 U	0.036 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.064 U	0.064 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.028 U	0.028 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.052 U	0.052 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.056 U	0.056 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.098 U	0.098 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.044 U	0.044 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.1 U	0.1 U	0.1 U
SW8330	HMX	ug/L	0.027 U	0.027 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.022 U	0.022 U	0.022 U
SW8330	RDX	ug/L	0.1 U	0.1 U	0.1 U
SW8330	Tetryl	ug/L	0.045 U	0.045 U	0.045 U

J - Estimated Value, U - Non-detection, . ,acted, B - Found in Blank

Metals in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Metals				
SW6020	Aluminum	ug/L	483	27.6	47.7
SW6020	Antimony	ug/L	0.13 U	0.13 U	0.13 U
SW6020	Arsenic	ug/L	1 U	1 U	1 U
SW6020	Barium	ug/L	36.3	33	34.8
SW6020	Beryllium	ug/L	0.028 U	0.028 U	0.028 U
SW6020	Cadmium	ug/L	0.17 U	0.17 U	0.17 U
SW6020	Calcium	ug/L	115000	103000	92900
SW6020	Chromium	ug/L	1.3 U	1.3 U	1.3 U
SW6020	Cobalt	ug/L	0.43	0.18	0.098
SW6020	Copper	ug/L	2.1 B	1.4 JB	1.6 JB
SW6020	Iron	ug/L	971	284	195
SW6020	Lead	ug/L	2.5	0.31 J	1.6
SW6020	Magnesium	ug/L	24800	23900	22500
SW6020	Manganese	ug/L	40.8	60.5	29.5
SW7470	Mercury	ug/L	0.062 U	0.062 U	0.062 U
SW6020	Nickel	ug/L	1.8	1.3	0.91
SW6020	Potassium	ug/L	1670	2220	406
SW6020	Selenium	ug/L	0.75 U	0.75 U	0.75 U
SW6020	Silver	ug/L	0.029 U	0.10 J	0.047 JB
SW6020	Sodium	ug/L	3880	3760	3060
SW6020	Thallium	ug/L	0.074 U	0.12 JB	0.3
SW6020	Vanadium	ug/L	2.5 U	2.5 U	2.5 U
SW6020	Zinc	ug/L	15.3 B	9.0 B	11

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Wet Chemistry				
SW9014	Cyanide	ug/L	5 U	5 U	5 U

Volatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/Kg	1.9 U	1.4 U	1.7 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	2.5 U	1.9 U	2.4 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	2 U	1.4 U	1.8 U
SW8260	1,1,2-Trichloroethane	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	1,1-Dichloroethane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	1,1-Dichloroethene	ug/Kg	1.8 U	1.4 U	1.7 U
SW8260	1,2,4-Trichlorobenzene	ug/Kg	4.7 U	3.5 U	4.4 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	1,2-Dichlorobenzene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	1,2-Dichloroethane	ug/Kg	2 U	1.4 U	1.8 U
SW8260	1,2-Dichloropropane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	1,3-Dichlorobenzene	ug/Kg	2.8 U	2 U	2.6 U
SW8260	1,4-Dichlorobenzene	ug/Kg	2.4 U	1.8 U	2.2 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	4.8 U	3.6 U	4.5 U
SW8260	2-Hexanone	ug/Kg	3 U	2.2 U	2.8 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	2.8 U	2 U	2.6 U
SW8260	Acetone	ug/Kg	5.6 UJ	4.2 UJ	5.2 UJ
SW8260	Benzene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	Bromodichloromethane	ug/Kg	1.8 U	1.3 U	1.7 U
SW8260	Bromoform	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Bromomethane	ug/Kg	2.2 U	1.6 U	2 U
SW8260	Carbon Disulfide	ug/Kg	1.2 U	0.92 U	1.2 U
SW8260	Carbon tetrachloride	ug/Kg	1.6 U	1.2 U	1.5 U
SW8260	Chlorobenzene	ug/Kg	2.2 U	1.7 U	2.1 U
SW8260	Chloroethane	ug/Kg	2.1 U	1.6 U	2 U
SW8260	Chloroform	ug/Kg	2.1 U	1.5 U	2 U
SW8260	Chloromethane	ug/Kg	2 U	1.5 U	1.8 U
SW8260	Cyclohexane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Dibromochloromethane	ug/Kg	1.9 U	1.4 U	1.8 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.8 U	1.3 U	1.7 U
SW8260	Ethylbenzene	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Methyl Acetate	ug/Kg	5.6 U	4.1 U	5.2 U
SW8260	Methylcyclohexane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Methylene Chloride	ug/Kg	5.3 J	1.7 U	2.2 U
SW8260	Styrene	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	2.2 U	1.6 U	2 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Toluene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	Trichloroethene (TCE)	ug/Kg	2.2 U	1.7 U	2.1 U
SW8260	Trichlorofluoromethane	ug/Kg	1.9 U	1.4 U	1.7 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
SW8260	Vinyl chloride	ug/Kg	2 U	1.4 U	1.8 U
SW8260	cis-1,2-Dichloroethene	ug/Kg	2 U	1.5 U	1.9 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	1.6 U	1.2 U	1.4 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg	4.9 U	3.6 U	4.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg	1.2 U	0.91 U	1.1 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	2 U	1.4 U	1.8 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	2.3 U	1.7 U	2.1 U

Semivolatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Semivolatile Organic Compounds				
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg	46 U	33 U	45 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	140 U	97 U	130 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	120 U	89 U	120 U
SW8270	2,4-Dichlorophenol	ug/Kg	82 U	60 U	80 U
SW8270	2,4-Dimethylphenol	ug/Kg	95 U	68 U	93 U
SW8270	2,4-Dinitrophenol	ug/Kg	310 U	220 U	300 U
SW8270	2,4-Dinitrotoluene	ug/Kg	56 U	300 JB	55 U
SW8270	2,6-Dinitrotoluene	ug/Kg	56 U	40 U	54 U
SW8270	2-Chloronaphthalene	ug/Kg	60 U	43 U	58 U
SW8270	2-Chlorophenol	ug/Kg	91 U	66 U	89 U
SW8270	2-Methylnaphthalene	ug/Kg	58 U	42 U	56 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	96 U	69 U	94 U
SW8270	2-Nitroaniline	ug/Kg	62 U	45 U	61 U
SW8270	2-Nitrophenol	ug/Kg	120 U	84 U	110 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	150 U	110 U	140 U
SW8270	3-Nitroaniline	ug/Kg	70 U	50 U	68 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	190 U	140 U	190 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	53 U	38 U	52 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	120 U	85 U	120 U
SW8270	4-Chloroaniline	ug/Kg	110 U	78 U	100 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	47 U	34 U	46 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	170 U	120 U	160 U
SW8270	4-Nitroaniline	ug/Kg	120 U	89 U	120 U
SW8270	4-Nitrophenol	ug/Kg	130 U	97 U	130 U
SW8270	Acenaphthene	ug/Kg	53 U	38 U	52 U
SW8270	Acenaphthylene	ug/Kg	47 U	34 U	46 U
SW8270	Acetophenone	ug/Kg	47 U	34 U	46 U
SW8270	Anthracene	ug/Kg	57 U	150 JB	56 U
SW8270	Atrazine	ug/Kg	130 UJ	97 UJ	130 UJ
SW8270	Benzaldehyde	ug/Kg	340 U	240 U	330 U
SW8270	Benzo(a)anthracene	ug/Kg	54 JB	800	34 U
SW8270	Benzo(a)pyrene	ug/Kg	37 U	730	36 U
SW8270	Benzo(b)fluoranthene	ug/Kg	30 U	940	29 U
SW8270	Benzo(g,h,i)perylene	ug/Kg	79 U	380 JB	77 U
SW8270	Benzo(k)fluoranthene	ug/Kg	27 U	430	26 U
SW8270	Benzyl butyl phthalate	ug/Kg	58 U	42 U	56 U
SW8270	Biphenyl (Diphenyl)	ug/Kg	58 U	42 U	57 U
SW8270	Caprolactam	ug/Kg	60 U	44 U	59 U
SW8270	Carbazole	ug/Kg	97 U	70 U	94 U
SW8270	Chrysene	ug/Kg	60 JB	630	34 U
SW8270	Di-n-butylphthalate	ug/Kg	120 JB	72 JB	270 JB
SW8270	Di-n-octylphthalate	ug/Kg	42 U	30 U	40 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
SW8270	Dibenz(a,h)anthracene	ug/Kg	65 U	110 JB	64 U
SW8270	Dibenzofuran	ug/Kg	53 U	38 U	52 U
SW8270	Diethylphthalate	ug/Kg	200 U	150 U	200 U
SW8270	Dimethylphthalate	ug/Kg	200 U	140 U	200 U
SW8270	Fluoranthene	ug/Kg	78 JB	1500	72 U
SW8270	Fluorene	ug/Kg	40 U	29 U	39 U
SW8270	Hexachlorobenzene	ug/Kg	51 U	37 U	50 U
SW8270	Hexachlorobutadiene	ug/Kg	52 U	38 U	51 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	580 U	420 U	570 U
SW8270	Hexachloroethane	ug/Kg	57 U	41 U	56 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	68 U	370 JB	66 U
SW8270	Isophorone	ug/Kg	41 U	30 U	40 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	39 U	28 U	38 U
SW8270	N-Nitrosodiphenylamine	ug/Kg	32 U	23 U	31 U
SW8270	Naphthalene	ug/Kg	44 U	32 U	43 U
SW8270	Nitrobenzene	ug/Kg	51 U	37 U	50 U
SW8270	Pentachlorophenol	ug/Kg	140 U	100 U	140 U
SW8270	Phenanthrene	ug/Kg	69 U	310 JB	67 U
SW8270	Phenol	ug/Kg	100 U	73 U	98 U
SW8270	Pyrene	ug/Kg	74 JB	1200	63 U
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	46 U	33 U	45 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	58 U	42 U	56 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	46 U	33 U	45 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	96 JB	150 JB	220 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Polyaromatic Hydrocarbon (PAH) Compounds				
SW8270 PAH	2-Methylnaphthalene	ug/Kg			
SW8270 PAH	Acenaphthene	ug/Kg	1.8 U	11	1.8 U
SW8270 PAH	Acenaphthylene	ug/Kg	24	72	1.2 U
SW8270 PAH	Anthracene	ug/Kg	22	140	1.7 U
SW8270 PAH	Benzo(a)anthracene	ug/Kg	74	450	8.7 U
SW8270 PAH	Benzo(a)pyrene	ug/Kg	66	400	8.1 JB
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	98	520	13
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	45	240	7.0 JB
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	34	210	7.0 JB
SW8270 PAH	Chrysene	ug/Kg	73	400	12
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	16	3.8 U	5.2 U
SW8270 PAH	Fluoranthene	ug/Kg	130	680	21
SW8270 PAH	Fluorene	ug/Kg	6.5 JB	19	1.7 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	45	240	6.4 JB
SW8270 PAH	Naphthalene	ug/Kg	1.2 U	31	1.2 U
SW8270 PAH	Phenanthrene	ug/Kg	38	280	12 J
SW8270 PAH	Pyrene	ug/Kg	100	600	17

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	2.1 U	15 U	2.1 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	0.059 U	0.43 U	0.058 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	18 U	130 U	17 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	8.2 U	59 U	8 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	12 U	90 U	12 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	13 U	92 U	12 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	74	1400	68

J - Estimated Value, U - Non-detection, ,acted, B - Found in Blank

Explosive Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/Kg	29 U	30 U	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	5.2 U	5.2 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	20 U	230	20 U
SW8330	2,4-Dinitrotoluene	ug/Kg	35 U	200	35 U
SW8330	2,6-Dinitrotoluene	ug/Kg	18 U	18 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	25 U	25 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	21 U	22 U	21 U
SW8330	3-Nitrotoluene	ug/Kg	55 U	55 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	15 U	15 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	89 U	90 U	90 U
SW8330	HMX	ug/Kg	29 U	70 JB	30 U
SW8330	Nitrobenzene	ug/Kg	16 U	16 U	27 JB
SW8330	RDX	ug/Kg	180 U	180 U	180 U
SW8330	Tetryl	ug/Kg	35 U	35 U	35 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Metals				
SW6010	Aluminum	mg/Kg	12400	10500	12200
SW6010	Antimony	mg/Kg	0.35 U	0.58 JB	0.52 JB
SW6010	Arsenic	mg/Kg	6.2	10	9.8
SW6010	Barium	mg/Kg	66.7	66.8	81.3
SW6010	Beryllium	mg/Kg	0.63	0.63	0.63
SW6010	Cadmium	mg/Kg	0.028 JB	0.11 B	0.15 B
SW6010	Calcium	mg/Kg	6470	3210	59500
SW6010	Chromium	mg/Kg	20	19.5	20.2
SW6010	Cobalt	mg/Kg	7.9	9.2	9.4
SW6010	Copper	mg/Kg	21.5	27	23.3
SW6010	Iron	mg/Kg	21900	29000	23800
SW6010	Lead	mg/Kg	70.1	61.6	23.3
SW6010	Magnesium	mg/Kg	3400	2250	16000
SW6010	Manganese	mg/Kg	162	131	391
SW7471	Mercury	mg/Kg	0.078	0.054	0.032 JB
SW6010	Nickel	mg/Kg	23.2	27	25.9
SW6010	Potassium	mg/Kg	1930	1420	2200
SW6010	Selenium	mg/Kg	1.9	1.4	1.9
SW6010	Silver	mg/Kg	0.07 U	0.043 U	0.07 U
SW6010	Sodium	mg/Kg	101 JB	65.2 JB	146 B
SW6010	Thallium	mg/Kg	0.97 U	1.2 JB	0.97 U
SW6010	Vanadium	mg/Kg	32.8	24.5	31.8
SW6010	Zinc	mg/Kg	75	117	81.1

J - Estimated Value, U - Non-detection, ı ,ected, B - Found in Blank

Cyanide in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Wet Chemistry				
SW9014	Cyanide	mg/Kg	0.24 U	0.19 U	0.24 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

ATTACHMENT III – QA/QC DATA COMPARISON

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/L	0.15 U	1.6 U	0.15 U	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.22 U	1.2 U	0.22 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.22 U	1.4 U	0.22 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.17 U	0.95 U	0.17 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	0.15 U	1.4 U	0.15 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	0.42 U	2 U	0.42 U	2 U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.16 U		0.16 U	
SW8260	1,2,4-Trichlorobenzene	ug/L	0.14 U	1.7 U	0.14 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.28 U	2.6 U	0.28 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.14 U	1.2 U	0.14 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	0.17 U	1.2 U	0.17 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.15 U	0.95 U	0.15 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.18 U	0.65 U	0.18 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.21 U	0.97 U	0.21 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	0.12 U	1 U	0.12 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1.2 U	4.2 U	1.2 U	4.2 U
SW8260	2-Hexanone	ug/L	0.83 U	2.5 U	0.83 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1.4 U	2 U	1.4 U	2 U
SW8260	Acetone	ug/L	1.1 U	2.6 UJ	1.1 U	2.6 UJ
SW8260	Benzene	ug/L	0.11 U	1.2 U	0.11 U	1.2 U
SW8260	Bromochloromethane	ug/L	0.31 U		0.31 U	
SW8260	Bromodichloromethane	ug/L	0.24 U	0.96 U	0.24 U	0.96 U
SW8260	Bromoform	ug/L	0.24 U	1.4 U	0.24 U	1.4 U
SW8260	Bromomethane	ug/L	0.33 U	3.2 U	0.33 U	3.2 U
SW8260	Carbon Disulfide	ug/L	0.13 U	1.4 U	0.13 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	0.14 U	2.1 U	0.14 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.28 U	0.81 U	0.28 U	0.81 U
SW8260	Chloroethane	ug/L	0.38 U	2.6 U	0.38 U	2.6 U
SW8260	Chloroform	ug/L	0.15 U	1.6 U	0.15 U	1.6 U
SW8260	Chloromethane	ug/L	0.18 U	1.5 U	0.18 U	1.5 U
SW8260	Cyclohexane	ug/L	0.18 U	1.6 U	0.18 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.2 U	0.49 U	0.2 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	0.24 U	1.8 U	0.24 U	1.8 U
SW8260	Ethylbenzene	ug/L	0.14 U	1.4 U	0.14 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.25 U	1.3 U	0.25 U	1.3 U
SW8260	Methyl Acetate	ug/L	0.87 U	1.6 U	0.87 U	1.6 U
SW8260	Methylcyclohexane	ug/L	0.2 U	1.8 U	0.2 U	1.8 U
SW8260	Methylene Chloride	ug/L	0.26 U	6.4 JB	0.26 U	5.6 JB
SW8260	Styrene	ug/L	0.22 U	1 U	0.22 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.17 U	0.6 U	0.17 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	0.14 U	2.3 U	0.14 U	2.3 U
SW8260	Toluene	ug/L	0.18 U	1.1 U	0.18 U	1.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/L	0.28 U	1.9 U	0.28 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	0.15 U	1.9 U	0.15 U	1.9 U
SW8260	Vinyl chloride	ug/L	0.19 U	2.1 U	0.19 U	2.1 U
SW8260	Xylenes, Total	ug/L	0.21 U		0.21 U	
SW8260	cis-1,2-Dichloroethene	ug/L	0.44 U	1.2 U	0.44 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.13 U	0.96 U	0.13 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L		2.1 U		2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L		1.3 U		1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 U	1.5 U	0.4 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.22 U	0.87 U	0.22 U	0.87 U

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds			
SW8260	1,1,1-Trichloroethane	ug/L	0.6 J	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.22 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.22 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.17 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	0.15 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	0.42 U	2 U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.16 U	
SW8260	1,2,4-Trichlorobenzene	ug/L	0.14 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.28 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.14 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	0.17 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.15 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.18 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.21 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	0.12 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1.2 U	4.2 U
SW8260	2-Hexanone	ug/L	0.83 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1.4 U	2 U
SW8260	Acetone	ug/L	1.1 U	2.6 UJ
SW8260	Benzene	ug/L	0.11 U	1.2 U
SW8260	Bromochloromethane	ug/L	0.31 U	
SW8260	Bromodichloromethane	ug/L	0.24 U	0.96 U
SW8260	Bromoform	ug/L	0.24 U	1.4 U
SW8260	Bromomethane	ug/L	0.33 U	3.2 U
SW8260	Carbon Disulfide	ug/L	0.13 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	0.14 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.28 U	0.81 U
SW8260	Chloroethane	ug/L	0.38 U	2.6 U
SW8260	Chloroform	ug/L	0.15 U	1.6 U
SW8260	Chloromethane	ug/L	0.18 U	1.5 U
SW8260	Cyclohexane	ug/L	0.18 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.2 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	0.24 U	1.8 U
SW8260	Ethylbenzene	ug/L	0.14 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.25 U	1.3 U
SW8260	Methyl Acetate	ug/L	0.87 U	1.6 U
SW8260	Methylcyclohexane	ug/L	0.2 U	1.8 U
SW8260	Methylene Chloride	ug/L	0.26 U	6.2 JB
SW8260	Styrene	ug/L	0.22 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.17 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	0.14 U	2.3 U
SW8260	Toluene	ug/L	0.18 U	1.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/L	0.28 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	0.15 U	1.9 U
SW8260	Vinyl chloride	ug/L	0.19 U	2.1 U
SW8260	Xylenes, Total	ug/L	0.21 U	
SW8260	cis-1,2-Dichloroethene	ug/L	0.44 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.13 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L		2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L		1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.22 U	0.87 U

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds					
SW8270	1,2,4-Trichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	1,2-Dichlorobenzene	ug/L	1.1 U		1 U	
SW8270	1,2-Diphenylhydrazine	ug/L	1.1 U		1 U	
SW8270	1,3-Dichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	1,4-Dichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L		0.78 U		0.74 U
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 UJ	1.1 U	1 UJ	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	1.1 UJ	0.92 U	1 UJ	0.87 U
SW8270	2,4-Dichlorophenol	ug/L	1.1 UJ	1.8 U	1 UJ	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1.1 UJ	1.7 U	1 UJ	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	11 UJ	7.3 U	10 UJ	6.9 U
SW8270	2,4-Dinitrotoluene	ug/L	1.1 U	1.3 UJ	1 U	1.3 U
SW8270	2,6-Dinitrotoluene	ug/L	1.1 U	0.95 UJ	1 U	0.89 U
SW8270	2-Chloronaphthalene	ug/L	1.1 U	0.52 UJ	1 U	0.49 U
SW8270	2-Chlorophenol	ug/L	1.1 UJ	0.82 U	1 UJ	0.76 U
SW8270	2-Methylnaphthalene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.1 UJ	1.6 U	1 UJ	1.5 U
SW8270	2-Nitroaniline	ug/L	1.1 U	0.84 UJ	1 U	0.79 U
SW8270	2-Nitrophenol	ug/L	1.1 UJ	2.2 U	1 UJ	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	1.1 U	7 UJ	1 U	6.6 U
SW8270	3-Methylphenol	ug/L	1.1 UJ		1 UJ	
SW8270	3-Nitroaniline	ug/L	1.1 U	UR	1 U	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1.1 UJ	4.8 U	1 UJ	4.4 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	4-Chloro-3-methylphenol	ug/L	1.1 UJ	2 U	1 UJ	1.9 U
SW8270	4-Chloroaniline	ug/L	1.1 U	1.9 UJ	1 U	1.8 U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1.1 U	1 UJ	1 U	0.97 U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1.1 UJ	3 U	1 UJ	2.8 U
SW8270	4-Nitroaniline	ug/L	1.1 U	2.1 UJ	1 U	2 UJ
SW8270	4-Nitrophenol	ug/L	5.4 UJ	3.9 U	5 UJ	3.6 U
SW8270	Acenaphthene	ug/L	1.1 U	0.6 UJ	1 U	0.56 U
SW8270	Acenaphthylene	ug/L	1.1 U	0.56 UJ	1 U	0.53 U
SW8270	Acetophenone	ug/L		0.9 UJ		0.85 U
SW8270	Anthracene	ug/L	1.1 U	1.1 UJ	1 U	1 U
SW8270	Atrazine	ug/L		1.6 UJ		1.5 U
SW8270	Benzaldehyde	ug/L		3 UJ		2.8 U
SW8270	Benzo(a)anthracene	ug/L	1.1 U	0.96 UJ	1 U	0.9 U
SW8270	Benzo(a)pyrene	ug/L	1.1 U	0.61 UJ	1 U	0.57 U
SW8270	Benzo(b)fluoranthene	ug/L	1.1 U	0.66 UJ	1 U	0.62 U
SW8270	Benzo(g,h,i)perylene	ug/L	1.1 U	1.5 UJ	1 U	1.4 U
SW8270	Benzo(k)fluoranthene	ug/L	1.1 U	1 UJ	1 U	0.99 U
SW8270	Benzoic acid	ug/L	UR		1 UJ	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/L	1.1 U		1 UJ	
SW8270	Benzyl butyl phthalate	ug/L	1.1 U	0.97 UJ	1 U	0.91 U
SW8270	Biphenyl (Diphenyl)	ug/L		0.36 UJ		0.34 U
SW8270	Caprolactam	ug/L		1.6 UJ		1.6 U
SW8270	Carbazole	ug/L	1.1 U	1.4 UJ	1 U	1.3 UJ
SW8270	Chrysene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	Di-n-butylphthalate	ug/L	1.1 U	1.9 UJ	1 U	1.8 U
SW8270	Di-n-octylphthalate	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	Dibenz(a,h)anthracene	ug/L	1.1 U	1.5 UJ	1 U	1.4 U
SW8270	Dibenzofuran	ug/L	1.1 U	0.8 UJ	1 U	0.76 U
SW8270	Diethylphthalate	ug/L	1.1 U	3.7 UJ	1 U	3.4 U
SW8270	Dimethylphthalate	ug/L	1.1 U	3.4 UJ	1 U	3.2 U
SW8270	Fluoranthene	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	Fluorene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	Hexachlorobenzene	ug/L	1.1 U	1.2 UJ	1 U	1.2 U
SW8270	Hexachlorobutadiene	ug/L	1.1 UJ	0.54 UJ	1 U	0.51 U
SW8270	Hexachlorocyclopentadiene	ug/L	1.1 UJ	4.6 UJ	1 U	4.3 UJ
SW8270	Hexachloroethane	ug/L	1.1 UJ	0.47 UJ	1 U	0.44 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.1 U	1.3 UJ	1 U	1.2 U
SW8270	Isophorone	ug/L	1.1 U	0.61 UJ	1 U	0.57 U
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.87 U	0.79 UJ	0.81 U	0.74 U
SW8270	N-Nitrosodimethylamine	ug/L	1.1 UJ		1 U	
SW8270	N-Nitrosodiphenylamine	ug/L	1.1 U	0.99 UJ	1 U	0.93 U
SW8270	Naphthalene	ug/L	1.1 U	0.48 UJ	1 U	0.45 U
SW8270	Nitrobenzene	ug/L	1.1 U	0.56 UJ	1 U	0.53 U
SW8270	Pentachlorophenol	ug/L	1.1 UJ	2.9 U	1 UJ	2.8 U
SW8270	Phenanthrene	ug/L	1.1 U	1.6 UJ	1 U	1.5 U
SW8270	Phenol	ug/L	1.1 UJ	1.3 U	1 UJ	1.2 U
SW8270	Pyrene	ug/L	1.1 U	0.67 UJ	1 U	0.63 U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1.1 U	0.59 UJ	1 U	0.55 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1.1 U	0.86 UJ	1 U	0.81 U
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	2.2 JB	7.4 JB	2 JB	6.5 JB

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds			
SW8270	1,2,4-Trichlorobenzene	ug/L	1 U	
SW8270	1,2-Dichlorobenzene	ug/L	1 U	
SW8270	1,2-Diphenylhydrazine	ug/L	1 U	
SW8270	1,3-Dichlorobenzene	ug/L	1 U	
SW8270	1,4-Dichlorobenzene	ug/L	1 U	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L		0.75 U
SW8270	2,4,5-Trichlorophenol	ug/L	1 UJ	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	1 UJ	0.88 U
SW8270	2,4-Dichlorophenol	ug/L	1 UJ	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1 UJ	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	10 UJ	7 U
SW8270	2,4-Dinitrotoluene	ug/L	1 U	1.3 UJ
SW8270	2,6-Dinitrotoluene	ug/L	1 U	0.91 UJ
SW8270	2-Chloronaphthalene	ug/L	1 U	0.5 UJ
SW8270	2-Chlorophenol	ug/L	1 UJ	0.78 U
SW8270	2-Methylnaphthalene	ug/L	1 U	0.75 UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 UJ	1.5 U
SW8270	2-Nitroaniline	ug/L	1 U	0.8 UJ
SW8270	2-Nitrophenol	ug/L	1 UJ	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	1 U	6.7 UJ
SW8270	3-Methylphenol	ug/L	1 UJ	
SW8270	3-Nitroaniline	ug/L	1 U	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 UJ	4.6 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1 U	1.4 UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1 UJ	1.9 U
SW8270	4-Chloroaniline	ug/L	1 U	1.8 UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 U	0.99 UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 UJ	2.8 U
SW8270	4-Nitroaniline	ug/L	1 U	2 UJ
SW8270	4-Nitrophenol	ug/L	5.2 UJ	3.7 U
SW8270	Acenaphthene	ug/L	1 U	0.57 UJ
SW8270	Acenaphthylene	ug/L	1 U	0.54 UJ
SW8270	Acetophenone	ug/L		0.86 UJ
SW8270	Anthracene	ug/L	1 U	1 UJ
SW8270	Atrazine	ug/L		1.5 UJ
SW8270	Benzaldehyde	ug/L		2.8 UJ
SW8270	Benzo(a)anthracene	ug/L	1 U	0.92 UJ
SW8270	Benzo(a)pyrene	ug/L	1 U	0.58 UJ
SW8270	Benzo(b)fluoranthene	ug/L	1 U	0.64 UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1 U	1.4 UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 U	1 UJ
SW8270	Benzoic acid	ug/L	1 UJ	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/L	1 U	
SW8270	Benzyl butyl phthalate	ug/L	1 U	0.93 UJ
SW8270	Biphenyl (Diphenyl)	ug/L		0.34 UJ
SW8270	Caprolactam	ug/L		1.6 U
SW8270	Carbazole	ug/L	1 U	1.4 UJ
SW8270	Chrysene	ug/L	1 U	0.75 UJ
SW8270	Di-n-butylphthalate	ug/L	1 U	1.8 UJ
SW8270	Di-n-octylphthalate	ug/L	1 U	1.4 UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1 U	1.4 UJ
SW8270	Dibenzofuran	ug/L	1 U	0.77 UJ
SW8270	Diethylphthalate	ug/L	1 U	3.5 UJ
SW8270	Dimethylphthalate	ug/L	1 U	3.2 UJ
SW8270	Fluoranthene	ug/L	1 U	1.4 UJ
SW8270	Fluorene	ug/L	1 U	0.75 UJ
SW8270	Hexachlorobenzene	ug/L	1 U	1.2 UJ
SW8270	Hexachlorobutadiene	ug/L	1 U	0.52 UJ
SW8270	Hexachlorocyclopentadiene	ug/L	1 U	4.4 UJ
SW8270	Hexachloroethane	ug/L	1 U	0.45 UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 U	1.2 UJ
SW8270	Isophorone	ug/L	1 U	0.58 UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.83 U	0.76 UJ
SW8270	N-Nitrosodimethylamine	ug/L	1 U	
SW8270	N-Nitrosodiphenylamine	ug/L	1 U	0.95 UJ
SW8270	Naphthalene	ug/L	1 U	0.46 UJ
SW8270	Nitrobenzene	ug/L	1 U	0.54 UJ
SW8270	Pentachlorophenol	ug/L	1 UJ	2.8 U
SW8270	Phenanthrene	ug/L	1 U	1.6 UJ
SW8270	Phenol	ug/L	1 UJ	1.3 U
SW8270	Pyrene	ug/L	1 U	0.65 UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 U	0.56 UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 U	0.82 UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 U	0.75 UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	2 JB	4.3 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds					
SW8270 PAH	1-Methylnaphthalene	ug/L	0.011 UJ		0.01 U	
SW8270 PAH	2-Methylnaphthalene	ug/L	0.017 UJ		0.016 U	
SW8270 PAH	Acenaphthene	ug/L	0.011 UJ	0.031 U	0.01 U	0.03 U
SW8270 PAH	Acenaphthylene	ug/L	0.009 UJ	0.031 U	0.0087 U	0.03 U
SW8270 PAH	Anthracene	ug/L	0.01 UJ	0.031 U	0.0097 U	0.03 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.011 UJ	0.04 U	0.011 U	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.01 UJ	0.021 U	0.0097 U	0.02 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.017 UJ	0.01 U	0.016 U	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.014 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.014 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Chrysene	ug/L	0.0096 UJ	0.021 U	0.0092 U	0.02 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.013 UJ	0.01 U	0.012 U	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.012 UJ	0.052 U	0.012 U	0.051 U
SW8270 PAH	Fluorene	ug/L	0.013 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.019 UJ	0.03 U	0.018 U	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.029 JB	0.031 U	0.044 J	0.03 U
SW8270 PAH	Phenanthrene	ug/L	0.015 UJ	0.042 U	0.014 U	0.04 U
SW8270 PAH	Pyrene	ug/L	0.011 UJ	0.031 U	0.011 U	0.03 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds			
SW8270 PAH	1-Methylnaphthalene	ug/L	0.01 UJ	
SW8270 PAH	2-Methylnaphthalene	ug/L	0.016 UJ	
SW8270 PAH	Acenaphthene	ug/L	0.01 UJ	0.031 U
SW8270 PAH	Acenaphthylene	ug/L	0.0088 UJ	0.031 U
SW8270 PAH	Anthracene	ug/L	0.0098 UJ	0.031 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.011 UJ	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.0098 UJ	0.021 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.016 UJ	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Chrysene	ug/L	0.0093 UJ	0.021 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.012 UJ	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.012 UJ	0.052 U
SW8270 PAH	Fluorene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.019 UJ	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.034 J	0.031 U
SW8270 PAH	Phenanthrene	ug/L	0.014 UJ	0.042 U
SW8270 PAH	Pyrene	ug/L	0.011 UJ	0.031 U

J - Estimated Value, U - Non-detection, . . .ejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 U	0.08 U	0.13 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 U	0.29 U	0.13 U	0.28 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 U	0.46 U	0.13 U	0.44 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 U	0.1 U	0.13 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 U	0.07 U	0.13 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 U	0.24 U	0.13 U	0.23 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 U	0.08 U	0.13 U	0.07 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)			
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 U	0.27 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 U	0.43 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 U	0.22 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 U	0.07 U

Explosive Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.096 U	0.054 U	0.086 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.096 U	0.036 U	0.086 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.096 U	0.064 U	0.086 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 U	0.028 U	0.11 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 U	0.052 U	0.11 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 U	0.056 U	0.13 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.096 U	0.098 U	0.086 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U	0.13 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.096 U	0.044 U	0.086 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.096 U	0.1 U	0.086 U	0.1 U
SW8330	HMX	ug/L	0.096 U	0.027 U	0.086 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.1 U	0.022 U	0.095 U	0.022 U
SW8330	RDX	ug/L	0.096 U	0.1 U	0.086 U	0.1 U
SW8330	Tetryl	ug/L	0.096 U	0.045 U	0.086 U	0.045 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives			
SW8330	1,3,5-Trinitrobenzene	ug/L	0.095 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.095 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.095 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.095 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.095 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.095 U	0.1 U
SW8330	HMX	ug/L	0.095 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.1 U	0.022 U
SW8330	RDX	ug/L	0.095 U	0.1 U
SW8330	Tetryl	ug/L	0.095 U	0.045 U

J - Estimated Value, U - Non-detection, ı ,ɔcted, B - Found in Blank

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals					
SW6010	Aluminum	ug/L	146 J		100 U	
SW6020	Aluminum	ug/L		483		27.6
SW6010	Antimony	ug/L	5 U		5 U	
SW6020	Antimony	ug/L		0.13 U		0.13 U
SW6010	Arsenic	ug/L	3 U		3 U	
SW6020	Arsenic	ug/L		1 U		1 U
SW6010	Barium	ug/L	34.1 J		35.2 J	
SW6020	Barium	ug/L		36.3		33
SW6010	Beryllium	ug/L	1 U		1 U	
SW6020	Beryllium	ug/L		0.028 U		0.028 U
SW6010	Cadmium	ug/L	1 U		1 U	
SW6020	Cadmium	ug/L		0.17 U		0.17 U
SW6010	Calcium	ug/L	119000		106000	
SW6020	Calcium	ug/L		115000		103000
SW6010	Chromium	ug/L	2 U		2 U	
SW6020	Chromium	ug/L		1.3 U		1.3 U
SW6010	Cobalt	ug/L	3 U		3 U	
SW6020	Cobalt	ug/L		0.43		0.18
SW6010	Copper	ug/L	4 U		4 U	
SW6020	Copper	ug/L		2.1 B		1.4 JB
SW6010	Iron	ug/L	307		102	
SW6020	Iron	ug/L		971		284
SW6010	Lead	ug/L	1.5 U		1.5 U	
SW6020	Lead	ug/L		2.5		0.31 J
SW6010	Magnesium	ug/L	24700		23200	
SW6020	Magnesium	ug/L		24800		23900
SW6010	Manganese	ug/L	31.6		9.1 J	
SW6020	Manganese	ug/L		40.8		60.5
SW7470	Mercury	ug/L	0.08 U	0.062 U	0.08 U	0.062 U
SW6010	Nickel	ug/L	3 U		3 U	
SW6020	Nickel	ug/L		1.8		1.3
SW6010	Potassium	ug/L	1780 J		1960 J	
SW6020	Potassium	ug/L		1670		2220
SW6010	Selenium	ug/L	3 U		3 U	
SW6020	Selenium	ug/L		0.75 U		0.75 U
SW6010	Silver	ug/L	1 U		1 U	
SW6020	Silver	ug/L		0.029 U		0.10 J
SW6010	Sodium	ug/L	4350		3780	
SW6020	Sodium	ug/L		3880		3760
SW6010	Thallium	ug/L	3 U		3 U	
SW6020	Thallium	ug/L		0.074 U		0.12 JB
SW6010	Vanadium	ug/L	3 U		3 U	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Surface Waters

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

		Location	AA2-SWSD-10	AA2-SWSD-10	AA2-SWSD-21	AA2-SWSD-21
		Samp. Num.	PBOW-06-SW-AA2-SW10-A	PBOW.06.SW.AA2.SW10.B	PBOW-06-SW-AA2-SW21-A	PBOW.06.SW.AA2.SW21.B
		Date	05/21/2006	05/21/2006	05/20/2006	05/20/2006
		Depth	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.
Method	Analyte	Units	Primary ELAB Result	Confirmation GPL QA Result	Primary ELAB Result	Confirmation GPL QA Result
SW6020	Vanadium	ug/L		2.5 U		2.5 U
SW6010	Zinc	ug/L	5 U		5 U	
SW6020	Zinc	ug/L		15.3 B		9.0 B

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals			
SW6010	Aluminum	ug/L	100 U	
SW6020	Aluminum	ug/L		47.7
SW6010	Antimony	ug/L	5 U	
SW6020	Antimony	ug/L		0.13 U
SW6010	Arsenic	ug/L	3 U	
SW6020	Arsenic	ug/L		1 U
SW6010	Barium	ug/L	33.4 J	
SW6020	Barium	ug/L		34.8
SW6010	Beryllium	ug/L	1 U	
SW6020	Beryllium	ug/L		0.028 U
SW6010	Cadmium	ug/L	1 U	
SW6020	Cadmium	ug/L		0.17 U
SW6010	Calcium	ug/L	94900	
SW6020	Calcium	ug/L		92900
SW6010	Chromium	ug/L	2 U	
SW6020	Chromium	ug/L		1.3 U
SW6010	Cobalt	ug/L	3 U	
SW6020	Cobalt	ug/L		0.098
SW6010	Copper	ug/L	4 U	
SW6020	Copper	ug/L		1.6 JB
SW6010	Iron	ug/L	185	
SW6020	Iron	ug/L		195
SW6010	Lead	ug/L	1.5 U	
SW6020	Lead	ug/L		1.6
SW6010	Magnesium	ug/L	21000	
SW6020	Magnesium	ug/L		22500
SW6010	Manganese	ug/L	29.9	
SW6020	Manganese	ug/L		29.5
SW7470	Mercury	ug/L	0.08 U	0.062 U
SW6010	Nickel	ug/L	3 U	
SW6020	Nickel	ug/L		0.91
SW6010	Potassium	ug/L	500 U	
SW6020	Potassium	ug/L		406
SW6010	Selenium	ug/L	3 U	
SW6020	Selenium	ug/L		0.75 U
SW6010	Silver	ug/L	1 U	
SW6020	Silver	ug/L		0.047 JB
SW6010	Sodium	ug/L	3150	
SW6020	Sodium	ug/L		3060
SW6010	Thallium	ug/L	3 U	
SW6020	Thallium	ug/L		0.3

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW6020	Vanadium	ug/L		2.5 U
SW6010	Zinc	ug/L	5 U	
SW6020	Zinc	ug/L		11

Cyanide in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry					
SW9012	Cyanide	ug/L	5 U		5 U	
SW9014	Cyanide	ug/L		5 U		5 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry			
SW9012	Cyanide	ug/L	5 U	
SW9014	Cyanide	ug/L		5 U

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/Kg	1.4 U	1.9 U	1.3 U	1.4 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	0.68 U	2.5 U	0.6 U	1.9 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	0.87 U	2 U	0.77 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/Kg	0.55 U	2.6 U	0.49 U	1.9 U
SW8260	1,1-Dichloroethane	ug/Kg	0.85 U	2 U	0.76 U	1.5 U
SW8260	1,1-Dichloroethene	ug/Kg	1.9 U	1.8 U	1.7 U	1.4 U
SW8260	1,2,3-Trichlorobenzene	ug/Kg	0.66 U		0.59 U	
SW8260	1,2,4-Trichlorobenzene	ug/Kg	0.28 U	4.7 U	0.25 U	3.5 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	1.9 U	2.6 U	1.7 U	1.9 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	0.68 U	2.3 U	0.6 U	1.7 U
SW8260	1,2-Dichlorobenzene	ug/Kg	0.58 U	2.3 U	0.52 U	1.7 U
SW8260	1,2-Dichloroethane	ug/Kg	0.73 U	2 U	0.64 U	1.4 U
SW8260	1,2-Dichloropropane	ug/Kg	0.73 U	2 U	0.64 U	1.5 U
SW8260	1,3-Dichlorobenzene	ug/Kg	1.3 U	2.8 U	1.2 U	2 U
SW8260	1,4-Dichlorobenzene	ug/Kg	0.87 U	2.4 U	0.77 U	1.8 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	9.7 J	4.8 U	6.4 J	3.6 U
SW8260	2-Hexanone	ug/Kg	3.6 U	3 U	3.2 U	2.2 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.92 U	2.8 U	0.81 U	2 U
SW8260	Acetone	ug/Kg	75 J	5.6 UJ	54 J	4.2 UJ
SW8260	Benzene	ug/Kg	0.74 U	2.3 U	0.66 U	1.7 U
SW8260	Bromochloromethane	ug/Kg	0.66 U		0.59 U	
SW8260	Bromodichloromethane	ug/Kg	0.47 U	1.8 U	0.42 U	1.3 U
SW8260	Bromoform	ug/Kg	1.6 U	2 U	1.4 U	1.5 U
SW8260	Bromomethane	ug/Kg	1.1 U	2.2 U	1 U	1.6 U
SW8260	Carbon Disulfide	ug/Kg	2.1 J	1.2 U	1.8 U	0.92 U
SW8260	Carbon tetrachloride	ug/Kg	1.4 U	1.6 U	1.2 U	1.2 U
SW8260	Chlorobenzene	ug/Kg	3.9 U	2.2 U	3.5 U	1.7 U
SW8260	Chloroethane	ug/Kg	1.7 U	2.1 U	1.5 U	1.6 U
SW8260	Chloroform	ug/Kg	0.87 U	2.1 U	0.77 U	1.5 U
SW8260	Chloromethane	ug/Kg	0.82 U	2 U	0.73 U	1.5 U
SW8260	Cyclohexane	ug/Kg	0.85 U	2 U	1 J	1.5 U
SW8260	Dibromochloromethane	ug/Kg	0.54 U	1.9 U	0.48 U	1.4 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.7 U	1.8 U	1.5 U	1.3 U
SW8260	Ethylbenzene	ug/Kg	1.2 U	2.6 U	1 U	1.9 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	1.4 U	2.7 U	1.2 U	2 U
SW8260	Methyl Acetate	ug/Kg	2.5 U	5.6 U	2.2 U	4.1 U
SW8260	Methylcyclohexane	ug/Kg	0.47 U	2 U	0.42 U	1.5 U
SW8260	Methylene Chloride	ug/Kg	0.98 U	5.3 J	0.87 U	1.7 U
SW8260	Styrene	ug/Kg	0.55 U	2.7 U	0.49 U	2 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.5 U	2.2 U	0.45 U	1.6 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	1.5 U	2.7 U	1.4 U	2 U
SW8260	Toluene	ug/Kg	1.4 U	2.3 U	1.2 U	1.7 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

		Location	AA2-SWSD-07	AA2-SWSD-07	AA2-SWSD-18	AA2-SWSD-18
		Samp. Num.	PBOW-06-SD-AA2-SD07-A	PBOW.06.SD.AA2.SD07.B	PBOW-06-SD-AA2-SD18-A	PBOW.06.SD.AA2.SD18.B
		Date	06/12/2006	06/12/2006	06/12/2006	06/12/2006
		Depth	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.
Method	Analyte	Units	Primary ELAB Result	Confirmation GPL QA Result	Primary ELAB Result	Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/Kg	1.3 U	2.2 U	1.2 U	1.7 U
SW8260	Trichlorofluoromethane	ug/Kg	1.5 U	1.9 U	1.3 U	1.4 U
SW8260	Vinyl chloride	ug/Kg	1.7 U	2 U	1.5 U	1.4 U
SW8260	Xylenes, Total	ug/Kg	1.1 U		0.98 U	
SW8260	cis-1,2-Dichloroethene	ug/Kg	1.9 U	2 U	1.7 U	1.5 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	0.79 U	1.6 U	0.7 U	1.2 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg		4.9 U		3.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg		1.2 U		0.91 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	1.7 U	2 U	1.5 U	1.4 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	0.5 U	2.3 U	0.45 U	1.7 U

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds			
SW8260	1,1,1-Trichloroethane	ug/Kg	1.4 U	1.7 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	0.67 U	2.4 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	0.86 U	1.8 U
SW8260	1,1,2-Trichloroethane	ug/Kg	0.54 U	2.4 U
SW8260	1,1-Dichloroethane	ug/Kg	0.84 U	1.9 U
SW8260	1,1-Dichloroethene	ug/Kg	1.9 U	1.7 U
SW8260	1,2,3-Trichlorobenzene	ug/Kg	0.65 U	
SW8260	1,2,4-Trichlorobenzene	ug/Kg	0.28 U	4.4 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	1.9 U	2.4 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	0.67 U	2.1 U
SW8260	1,2-Dichlorobenzene	ug/Kg	0.58 U	2.1 U
SW8260	1,2-Dichloroethane	ug/Kg	0.72 U	1.8 U
SW8260	1,2-Dichloropropane	ug/Kg	0.72 U	1.9 U
SW8260	1,3-Dichlorobenzene	ug/Kg	1.3 U	2.6 U
SW8260	1,4-Dichlorobenzene	ug/Kg	0.86 U	2.2 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	2.2 U	4.5 U
SW8260	2-Hexanone	ug/Kg	3.6 U	2.8 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.9 U	2.6 U
SW8260	Acetone	ug/Kg	14 J	5.2 UJ
SW8260	Benzene	ug/Kg	2.4 J	2.1 U
SW8260	Bromochloromethane	ug/Kg	0.65 U	
SW8260	Bromodichloromethane	ug/Kg	0.47 U	1.7 U
SW8260	Bromoform	ug/Kg	1.6 U	1.9 U
SW8260	Bromomethane	ug/Kg	1.1 U	2 U
SW8260	Carbon Disulfide	ug/Kg	2 U	1.2 U
SW8260	Carbon tetrachloride	ug/Kg	1.4 U	1.5 U
SW8260	Chlorobenzene	ug/Kg	3.9 U	2.1 U
SW8260	Chloroethane	ug/Kg	1.7 U	2 U
SW8260	Chloroform	ug/Kg	0.86 U	2 U
SW8260	Chloromethane	ug/Kg	0.81 U	1.8 U
SW8260	Cyclohexane	ug/Kg	7.8 J	1.9 U
SW8260	Dibromochloromethane	ug/Kg	0.53 U	1.8 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.7 U	1.7 U
SW8260	Ethylbenzene	ug/Kg	1.2 U	2.4 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	1.4 U	2.5 U
SW8260	Methyl Acetate	ug/Kg	2.5 U	5.2 U
SW8260	Methylcyclohexane	ug/Kg	10	1.9 U
SW8260	Methylene Chloride	ug/Kg	0.97 U	2.2 U
SW8260	Styrene	ug/Kg	0.54 U	2.5 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.5 U	2 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	1.5 U	2.5 U
SW8260	Toluene	ug/Kg	3.2 JB	2.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/Kg	1.3 U	2.1 U
SW8260	Trichlorofluoromethane	ug/Kg	1.5 U	1.7 U
SW8260	Vinyl chloride	ug/Kg	1.7 U	1.8 U
SW8260	Xylenes, Total	ug/Kg	1.1 U	
SW8260	cis-1,2-Dichloroethene	ug/Kg	1.9 U	1.9 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	0.78 U	1.4 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg		4.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg		1.1 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	1.7 U	1.8 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	0.5 U	2.1 U

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds					
SW8270	1,2,4-Trichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,2-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,2-Diphenylhydrazine	ug/Kg	160 UJ		130 UJ	
SW8270	1,3-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,4-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg		46 U		33 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	160 U	140 U	130 UJ	97 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	160 UJ	120 U	130 UJ	89 U
SW8270	2,4-Dichlorophenol	ug/Kg	160 UJ	82 U	130 UJ	60 U
SW8270	2,4-Dimethylphenol	ug/Kg	160 UJ	95 U	130 UJ	68 U
SW8270	2,4-Dinitrophenol	ug/Kg	160 UJ	310 U	130 UJ	220 U
SW8270	2,4-Dinitrotoluene	ug/Kg	160 UJ	56 U	560 J	300 JB
SW8270	2,6-Dinitrotoluene	ug/Kg	160 UJ	56 U	130 UJ	40 U
SW8270	2-Chloronaphthalene	ug/Kg	160 UJ	60 U	130 UJ	43 U
SW8270	2-Chlorophenol	ug/Kg	160 UJ	91 U	130 UJ	66 U
SW8270	2-Methylnaphthalene	ug/Kg	63 UJ	58 U	54 J	42 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	160 UJ	96 U	130 UJ	69 U
SW8270	2-Nitroaniline	ug/Kg	160 UJ	62 U	130 UJ	45 U
SW8270	2-Nitrophenol	ug/Kg	160 UJ	120 U	130 UJ	84 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	240 UJ	150 U	200 UJ	110 U
SW8270	3-Methylphenol	ug/Kg	160 U		130 UJ	
SW8270	3-Nitroaniline	ug/Kg	160 UJ	70 U	130 UJ	50 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	160 UJ	190 U	130 UJ	140 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	160 UJ	53 U	130 UJ	38 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	160 U	120 U	130 UJ	85 U
SW8270	4-Chloroaniline	ug/Kg	160 UJ	110 U	130 UJ	78 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	160 UJ	47 U	130 UJ	34 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	160 U	170 U	130 UJ	120 U
SW8270	4-Nitroaniline	ug/Kg	160 UJ	120 U	130 UJ	89 U
SW8270	4-Nitrophenol	ug/Kg	160 U	130 U	130 UJ	97 U
SW8270	Acenaphthene	ug/Kg	63 UJ	53 U	52 UJ	38 U
SW8270	Acenaphthylene	ug/Kg	63 UJ	47 U	52 UJ	34 U
SW8270	Acetophenone	ug/Kg		47 U		34 U
SW8270	Anthracene	ug/Kg	63 UJ	57 U	70 J	150 JB
SW8270	Atrazine	ug/Kg		130 UJ		97 UJ
SW8270	Benzaldehyde	ug/Kg		340 U		240 U
SW8270	Benzo(a)anthracene	ug/Kg	81 J	54 JB	490 J	800
SW8270	Benzo(a)pyrene	ug/Kg	63 UJ	37 U	580 J	730
SW8270	Benzo(b)fluoranthene	ug/Kg	63 UJ	30 U	620 J	940
SW8270	Benzo(g,h,i)perylene	ug/Kg	63 UJ	79 U	160 J	380 JB
SW8270	Benzo(k)fluoranthene	ug/Kg	63 UJ	27 U	570 J	430
SW8270	Benzoic acid	ug/Kg	220 J		UR	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/Kg	160 UJ		130 UJ	
SW8270	Benzyl butyl phthalate	ug/Kg	160 UJ	58 U	130 UJ	42 U
SW8270	Biphenyl (Diphenyl)	ug/Kg		58 U		42 U
SW8270	Caprolactam	ug/Kg		60 U		44 U
SW8270	Carbazole	ug/Kg	63 UJ	97 U	52 UJ	70 U
SW8270	Chrysene	ug/Kg	81 J	60 JB	530 J	630
SW8270	Di-n-butylphthalate	ug/Kg	160 UJ	120 JB	130 UJ	72 JB
SW8270	Di-n-octylphthalate	ug/Kg	160 UJ	42 U	130 UJ	30 U
SW8270	Dibenz(a,h)anthracene	ug/Kg	63 UJ	65 U	52 UJ	110 JB
SW8270	Dibenzofuran	ug/Kg	160 UJ	53 U	130 UJ	38 U
SW8270	Diethylphthalate	ug/Kg	160 UJ	200 U	130 UJ	150 U
SW8270	Dimethylphthalate	ug/Kg	160 UJ	200 U	130 UJ	140 U
SW8270	Fluoranthene	ug/Kg	120 J	78 JB	800 J	1500
SW8270	Fluorene	ug/Kg	63 UJ	40 U	52 UJ	29 U
SW8270	Hexachlorobenzene	ug/Kg	160 UJ	51 U	130 UJ	37 U
SW8270	Hexachlorobutadiene	ug/Kg	160 UJ	52 U	130 UJ	38 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	160 UJ	580 U	130 UJ	420 U
SW8270	Hexachloroethane	ug/Kg	160 UJ	57 U	130 UJ	41 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	63 UJ	68 U	230 J	370 JB
SW8270	Isophorone	ug/Kg	160 UJ	41 U	130 UJ	30 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	160 UJ	39 U	130 UJ	28 U
SW8270	N-Nitrosodimethylamine	ug/Kg	160 UJ		130 UJ	
SW8270	N-Nitrosodiphenylamine	ug/Kg	160 UJ	32 U	130 UJ	23 U
SW8270	Naphthalene	ug/Kg	63 UJ	44 U	52 UJ	32 U
SW8270	Nitrobenzene	ug/Kg	160 UJ	51 U	130 UJ	37 U
SW8270	Pentachlorophenol	ug/Kg	160 UJ	140 U	130 UJ	100 U
SW8270	Phenanthrene	ug/Kg	63 UJ	69 U	230 J	310 JB
SW8270	Phenol	ug/Kg	160 UJ	100 U	130 UJ	73 U
SW8270	Pyrene	ug/Kg	110 J	74 JB	780 J	1200
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	160 UJ	46 U	130 UJ	33 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	160 UJ	58 U	130 UJ	42 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	160 UJ	46 U	130 UJ	33 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	160 UJ	96 JB	130 UJ	150 JB

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds			
SW8270	1,2,4-Trichlorobenzene	ug/Kg	170 UJ	
SW8270	1,2-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	1,2-Diphenylhydrazine	ug/Kg	170 UJ	
SW8270	1,3-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	1,4-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg		45 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	170 U	130 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	170 UJ	120 U
SW8270	2,4-Dichlorophenol	ug/Kg	170 UJ	80 U
SW8270	2,4-Dimethylphenol	ug/Kg	170 UJ	93 U
SW8270	2,4-Dinitrophenol	ug/Kg	170 UJ	300 U
SW8270	2,4-Dinitrotoluene	ug/Kg	170 UJ	55 U
SW8270	2,6-Dinitrotoluene	ug/Kg	170 UJ	54 U
SW8270	2-Chloronaphthalene	ug/Kg	170 UJ	58 U
SW8270	2-Chlorophenol	ug/Kg	170 UJ	89 U
SW8270	2-Methylnaphthalene	ug/Kg	67 UJ	56 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	170 UJ	94 U
SW8270	2-Nitroaniline	ug/Kg	170 UJ	61 U
SW8270	2-Nitrophenol	ug/Kg	170 UJ	110 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	250 UJ	140 U
SW8270	3-Methylphenol	ug/Kg	170 U	
SW8270	3-Nitroaniline	ug/Kg	170 UJ	68 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	170 UJ	190 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	170 UJ	52 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	170 U	120 U
SW8270	4-Chloroaniline	ug/Kg	170 UJ	100 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	170 UJ	46 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	170 U	160 U
SW8270	4-Nitroaniline	ug/Kg	170 UJ	120 U
SW8270	4-Nitrophenol	ug/Kg	170 U	130 U
SW8270	Acenaphthene	ug/Kg	67 UJ	52 U
SW8270	Acenaphthylene	ug/Kg	67 UJ	46 U
SW8270	Acetophenone	ug/Kg		46 U
SW8270	Anthracene	ug/Kg	67 UJ	56 U
SW8270	Atrazine	ug/Kg		130 UJ
SW8270	Benzaldehyde	ug/Kg		330 U
SW8270	Benzo(a)anthracene	ug/Kg	67 UJ	34 U
SW8270	Benzo(a)pyrene	ug/Kg	67 UJ	36 U
SW8270	Benzo(b)fluoranthene	ug/Kg	67 UJ	29 U
SW8270	Benzo(g,h,i)perylene	ug/Kg	67 UJ	77 U
SW8270	Benzo(k)fluoranthene	ug/Kg	67 UJ	26 U
SW8270	Benzoic acid	ug/Kg	UR	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/Kg	170 UJ	
SW8270	Benzyl butyl phthalate	ug/Kg	170 UJ	56 U
SW8270	Biphenyl (Diphenyl)	ug/Kg		57 U
SW8270	Caprolactam	ug/Kg		59 U
SW8270	Carbazole	ug/Kg	67 UJ	94 U
SW8270	Chrysene	ug/Kg	67 UJ	34 U
SW8270	Di-n-butylphthalate	ug/Kg	170 UJ	270 JB
SW8270	Di-n-octylphthalate	ug/Kg	170 UJ	40 U
SW8270	Dibenz(a,h)anthracene	ug/Kg	67 UJ	64 U
SW8270	Dibenzofuran	ug/Kg	170 UJ	52 U
SW8270	Diethylphthalate	ug/Kg	170 UJ	200 U
SW8270	Dimethylphthalate	ug/Kg	170 UJ	200 U
SW8270	Fluoranthene	ug/Kg	67 UJ	72 U
SW8270	Fluorene	ug/Kg	67 UJ	39 U
SW8270	Hexachlorobenzene	ug/Kg	170 UJ	50 U
SW8270	Hexachlorobutadiene	ug/Kg	170 UJ	51 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	170 UJ	570 U
SW8270	Hexachloroethane	ug/Kg	170 UJ	56 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	67 UJ	66 U
SW8270	Isophorone	ug/Kg	170 UJ	40 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	170 UJ	38 U
SW8270	N-Nitrosodimethylamine	ug/Kg	170 UJ	
SW8270	N-Nitrosodiphenylamine	ug/Kg	170 UJ	31 U
SW8270	Naphthalene	ug/Kg	67 UJ	43 U
SW8270	Nitrobenzene	ug/Kg	170 UJ	50 U
SW8270	Pentachlorophenol	ug/Kg	170 UJ	140 U
SW8270	Phenanthrene	ug/Kg	67 UJ	67 U
SW8270	Phenol	ug/Kg	170 UJ	98 U
SW8270	Pyrene	ug/Kg	67 UJ	63 U
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	170 UJ	45 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	170 UJ	56 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	170 UJ	45 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	170 UJ	220 JB

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds					
SW8270 PAH	2-Methylnaphthalene	ug/Kg	32 UJ		60 J	
SW8270 PAH	Acenaphthene	ug/Kg	32 UJ	1.8 U	26 UJ	11
SW8270 PAH	Acenaphthylene	ug/Kg	32 UJ	24	48 J	72
SW8270 PAH	Anthracene	ug/Kg	32 UJ	22	75 J	140
SW8270 PAH	Benzo(a)anthracene	ug/Kg	74 J	74	460 J	450
SW8270 PAH	Benzo(a)pyrene	ug/Kg	32 UJ	66	550 J	400
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	94 J	98	610 J	520
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	32 UJ	45	180 J	240
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	57 J	34	490 J	210
SW8270 PAH	Chrysene	ug/Kg	81 J	73	520 J	400
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	32 UJ	16	26 UJ	3.8 U
SW8270 PAH	Fluoranthene	ug/Kg	120 J	130	790 J	680
SW8270 PAH	Fluorene	ug/Kg	32 UJ	6.5 JB	26 UJ	19
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	32 UJ	45	220 J	240
SW8270 PAH	Naphthalene	ug/Kg	32 UJ	1.2 U	26 UJ	31
SW8270 PAH	Phenanthrene	ug/Kg	32 UJ	38	240 J	280
SW8270 PAH	Pyrene	ug/Kg	120 J	100	760 J	600

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds			
SW8270 PAH	2-Methylnaphthalene	ug/Kg	34 UJ	
SW8270 PAH	Acenaphthene	ug/Kg	34 UJ	1.8 U
SW8270 PAH	Acenaphthylene	ug/Kg	34 UJ	1.2 U
SW8270 PAH	Anthracene	ug/Kg	34 UJ	1.7 U
SW8270 PAH	Benzo(a)anthracene	ug/Kg	34 UJ	8.7 U
SW8270 PAH	Benzo(a)pyrene	ug/Kg	34 UJ	8.1 JB
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	34 UJ	13
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	34 UJ	7.0 JB
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	34 UJ	7.0 JB
SW8270 PAH	Chrysene	ug/Kg	34 UJ	12
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	34 UJ	5.2 U
SW8270 PAH	Fluoranthene	ug/Kg	43 J	21
SW8270 PAH	Fluorene	ug/Kg	34 UJ	1.7 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	34 UJ	6.4 JB
SW8270 PAH	Naphthalene	ug/Kg	34 UJ	1.2 U
SW8270 PAH	Phenanthrene	ug/Kg	34 UJ	12 J
SW8270 PAH	Pyrene	ug/Kg	34 UJ	17

Polychlorinated Biphenyls (PCBs) in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	6.2 U	2.1 U	5.4 U	15 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	6.2 U	0.059 U	5.4 U	0.43 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	6.2 U	18 U	5.4 U	130 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	6.2 U	8.2 U	5.4 U	59 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	6.2 U	12 U	5.4 U	90 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	6.2 U	13 U	5.4 U	92 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	760	74	1900	1400

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)			
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	7 U	2.1 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	7 U	0.058 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	7 U	17 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	7 U	8 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	7 U	12 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	7 U	12 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	130	68

J - Estimated Value, U - Non-detection, , ,ected, B - Found in Blank

Explosive Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/Kg	87 U	29 U	160 J	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	87 U	5.2 U	74 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	87 U	20 U	94 J	230
SW8330	2,4-Dinitrotoluene	ug/Kg	110 U	35 U	320	200
SW8330	2,6-Dinitrotoluene	ug/Kg	110 U	18 U	96 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	130 U	25 U	110 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	87 U	21 U	74 U	22 U
SW8330	3-Nitrotoluene	ug/Kg	130 U	55 U	110 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	87 U	15 U	74 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	87 U	89 U	74 U	90 U
SW8330	HMX	ug/Kg	87 U	29 U	160 J	70 JB
SW8330	Nitrobenzene	ug/Kg	96 U	16 U	81 U	16 U
SW8330	RDX	ug/Kg	87 U	180 U	74 U	180 U
SW8330	Tetryl	ug/Kg	87 U	35 U	74 U	35 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives			
SW8330	1,3,5-Trinitrobenzene	ug/Kg	91 U	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	91 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	91 U	20 U
SW8330	2,4-Dinitrotoluene	ug/Kg	120 U	35 U
SW8330	2,6-Dinitrotoluene	ug/Kg	120 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	140 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	91 U	21 U
SW8330	3-Nitrotoluene	ug/Kg	140 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	91 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	91 U	90 U
SW8330	HMX	ug/Kg	120 J	30 U
SW8330	Nitrobenzene	ug/Kg	100 U	27 JB
SW8330	RDX	ug/Kg	98 J	180 U
SW8330	Tetryl	ug/Kg	91 U	35 U

J - Estimated Value, U - Non-detection, ı ;cted, B - Found in Blank

Metals in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals					
SW6010	Aluminum	mg/Kg	9680 J	12400	7430 J	10500
SW6010	Antimony	mg/Kg	3.1 UJ	0.35 U	2.7 UJ	0.58 JB
SW6010	Arsenic	mg/Kg	5.3	6.2	10.1	10
SW6010	Barium	mg/Kg	57.9 J	66.7	66.2	66.8
SW6010	Beryllium	mg/Kg	0.65 J	0.63	0.56 J	0.63
SW6010	Cadmium	mg/Kg	0.31 U	0.028 JB	0.44 J	0.11 B
SW6010	Calcium	mg/Kg	5360	6470	3930	3210
SW6010	Chromium	mg/Kg	16.2 J	20	12.8 J	19.5
SW6010	Cobalt	mg/Kg	6.8 J	7.9	9.1 J	9.2
SW6010	Copper	mg/Kg	22.4	21.5	20.8	27
SW6010	Iron	mg/Kg	17400 J	21900	23400 J	29000
SW6010	Lead	mg/Kg	65.9 J	70.1	47.9 J	61.6
SW6010	Magnesium	mg/Kg	2650 J	3400	1990 J	2250
SW6010	Manganese	mg/Kg	105 J	162	187 J	131
SW7471	Mercury	mg/Kg	0.051 B	0.078	0.049 B	0.054
SW6010	Nickel	mg/Kg	21.2	23.2	21.9	27
SW6010	Potassium	mg/Kg	1060 J	1930	859 J	1420
SW6010	Selenium	mg/Kg	0.92 U	1.9	0.8 U	1.4
SW6010	Silver	mg/Kg	0.31 U	0.07 U	0.27 U	0.043 U
SW6010	Sodium	mg/Kg	307 U	101 JB	267 U	65.2 JB
SW6010	Thallium	mg/Kg	0.38 U	0.97 U	0.33 U	1.2 JB
SW6010	Vanadium	mg/Kg	24.8	32.8	18.1	24.5
SW6010	Zinc	mg/Kg	59.8 J	75	94.4 J	117

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals			
SW6010	Aluminum	mg/Kg	9040 J	12200
SW6010	Antimony	mg/Kg	3.4 UJ	0.52 JB
SW6010	Arsenic	mg/Kg	12.7	9.8
SW6010	Barium	mg/Kg	68.8	81.3
SW6010	Beryllium	mg/Kg	0.6 J	0.63
SW6010	Cadmium	mg/Kg	0.51 J	0.15 B
SW6010	Calcium	mg/Kg	56600	59500
SW6010	Chromium	mg/Kg	15.3 J	20.2
SW6010	Cobalt	mg/Kg	9.8 J	9.4
SW6010	Copper	mg/Kg	24.6	23.3
SW6010	Iron	mg/Kg	23000 J	23800
SW6010	Lead	mg/Kg	22.1 J	23.3
SW6010	Magnesium	mg/Kg	15200 J	16000
SW6010	Manganese	mg/Kg	388 J	391
SW7471	Mercury	mg/Kg	0.028 JB	0.032 JB
SW6010	Nickel	mg/Kg	26	25.9
SW6010	Potassium	mg/Kg	1200 J	2200
SW6010	Selenium	mg/Kg	1 U	1.9
SW6010	Silver	mg/Kg	0.34 U	0.07 U
SW6010	Sodium	mg/Kg	336 U	146 B
SW6010	Thallium	mg/Kg	0.42 U	0.97 U
SW6010	Vanadium	mg/Kg	22.4	31.8
SW6010	Zinc	mg/Kg	76.1 J	81.1

J - Estimated Value, U - Non-detection, ,ected, B - Found in Blank

Cyanide in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry					
SW9012	Cyanide	mg/Kg	0.29 J		0.2 J	
SW9014	Cyanide	mg/Kg		0.24 U		0.19 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry			
SW9012	Cyanide	mg/Kg	0.22 U	
SW9014	Cyanide	mg/Kg		0.24 U

J - Estimated Value, U - Non-detection, , ,ected, B - Found in Blank

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ABBREVIATIONS AND ACRONYMS

CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
ISA	Internal Standard Area
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDL	Method Detection Limit
mg/L	milligram per Liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PAH	Polycyclic Aromatic Hydrocarbon
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TCL	Target Compound List
µg/L	microgram per Liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency

Introduction

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the surface water and sediment sampling event performed by Jacobs Engineering, Inc. at Acid Areas 2 and 3 at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio during May and June 2006. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of three surface water and three sediment QA samples that were collected in conjunction with the project Quality Control (QC) samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Sample Number Correlation. The QA data are tabulated in Attachment II, QA Data Summary. Data tables comparing the QC and QA data are presented in Attachment III, Data Comparison.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocol:

- *Test Methods for Evaluating Solid Waste,* SW-846, 3rd Edition, USEPA, November 1986, (SW-846)

Specific analytical methods used include the following:

- SW-846 8260B – volatile organic compounds by gas chromatography/mass spectrometry capillary column technique
- SW-846 8270C – semivolatile organic compounds
- SW-846 8270_PAH – polycyclic aromatic hydrocarbons (PAHs);
- SW-846 8330 – nitroaromatic compounds (referred to as explosives hereafter);
- SW-846 8082 – polychlorinated biphenyls (PCBs)
- SW864 6010B – total metals by inductively coupled argon plasma spectrophotometer (ICAP)
- SW846 6020 – total metals by inductively coupled argon plasma spectrophotometer/mass spectrometry (ICP/MS)
- SW846 7470A – mercury in water (manual cold-vapor technique)
- SW846 7471A -- mercury in solid or semisolid waste (manual cold-vapor technique)
- SW846 9014T – total and amenable cyanide (titrimetric and manual spectrophotometric determinative methods)

Analytical Laboratories

The following analytical laboratory was contracted to analyze the Primary/QC field sample for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115; Fax (615) 846-5426

The following analytical laboratory was contracted to analyze the QA field samples for this project:

GPL Laboraties, LLLP
7210A Corporate CT
Frederick, MD 21703
Phone: (301) 694-5310; Fax (301) 620-0731

Both laboratories have been validated by the United States Army Corps of Engineers (UASCE).

Data Evaluation Procedures

The quality of these data has been evaluated following procedures consistent with those included in the Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects,* 10 October 1997, the "Louisville Chemistry Guideline, Revision 5," Louisville District Environmental Engineering Branch, June 2002., the *"Department of Defense Quality Systems Manual for Environmental Laboratories, Final Version 3,"* DoD Environmental Data Quality Workgroup, January 2006, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The following data quality issues were addressed in this evaluation:

- Review chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review field QC blank data to detect contamination from outside sources;
- Review QC data to evaluate data reproducibility;
- Review laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates

- Assign appropriate qualifiers to useable data, qualify unusable data as rejected, if necessary; and

- Present data evaluation in terms of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

Data qualifiers were assigned to the analytical results as part of the data review process. Definitions of these data qualifiers, which are consistent with those used within the *Functional Guidelines* referenced above, are provided below.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is an estimate and my not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

B – The B flag is to be used for both organic and inorganic analyses when the analyte is found in the associated blank as well as the in the sample. The result is considered ND, and the reported value is considered to be an estimated CRQL.

JB - The analyte was detected in the sample at a value between the method detection limit and the method quantitation limit; the analyte was also detected in the associated blank. The associated numerical value is considered ND, and the reported value is considered to be an estimated CRQL.

UR - The analyte result was non-useable due to a QC non-conformance, and was rejected.

T – The analyte was detected between the method detection limit, but below the method quantitation limit. The value is considered an estimate.

I. QC DATA EVALUATION

The data evaluation of the QC data is summarized below. All analyses were run under SDGs Plumbrook S003 (sediment), S004 (sediment), W003 (surface water), and W004 (surface water).

A. Accuracy:

1) Polycyclic Aromatic Hydrocarbons

- Holding times were met for all sediment and surface water analyses.

- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses.
- The LCS %Rs were marginally low for several aqueous PAH compounds in several extraction batches, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were marginally low for naphthalene and 2-methylnaphthalene in all sediment batches, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- Surrogate recoveries were marginally low in several aqueous and sediment samples, resulting in the compounds being qualified as estimated (coded "J" for detects and "UJ" for non-detects)..
- All internal standard area responses (ISAs) and retention times were within control limits except for perylene-d12, which was below the lower control limit in samples PBOW-06-SD-AA2-SD04-A, PBOW-06-SD-AA2-SD07-D, PBOW-06-SD-AA2-SD18-D, and PBOW-06-SD-AA3-SD08-D, resulting in compounds associated with the internal standard be qualified as estimated (coded "J") for detects and non-usable (rejected) for non-detects..
- DFTPP Tune passed method acceptance criteria.
- The initial calibration was acceptable for all compounds in all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all compounds in all sediment and surface water analysis.

2) <u>Semi-Volatile Organic Compounds</u>

- Holding times were met for all sediment and surface water analyses except surface water samples PBOW-06-SW-AA2-SW15-A, PBOW-06-SW-AA2-SW16-A, and PBOW-06-SW-AA2-SW19-A, which were re-extracted outside of the recommended seven day hold time; all results for these three samples were qualified as estimated (coded "J" for detects, and "UJ" for non-detects).
- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses with the exception of low recoveries of benzoic acid and several other compounds in aqueous sample PBOW-06-SW-AA2-SW06-A; low recoveries of benzoic acid, 2,4-dinitrophenol, N-nitroso-dimethylamine, 4-nitroaniline, and phenol PBOW-06-SW-AA3-SW04-A; and low recoveries of benzoic acid in sediment sample PBOW-06-SD-AA2-SD-12A. Benzoic acid results in all samples and 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, phenol, and 2,4,5-trichlorophenol in sample PBOW-06-SW-AA2-SW06-A were qualified as non-usable (rejected); all other compound results in the associated parent samples were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were marginally low for several compounds in several sediment and surface water extraction batches. Associated sample compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- The LCS %Rs were extremely low for benzoic acid in several sediment and surface water extraction batches. Associated sample non-detect benzoic acid results were qualified as non-usable (rejected).

- Surrogate recoveries for several sediment and surface water analyses were within the control criteria limits. Associated sample compound results were qualified as estimated (coded "J" for detects and "UJ" for non-detects).
- All internal standard area responses (ISAs) and retention times for all sediment and surface water samples were within control limits.
- DFTPP Tune passed method acceptance criteria for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds in all sediment and surface water samples.
- The continuing calibration verification was acceptable for all compounds except for benzyl alcohol in one aqueous CCV, and 1,2,4-trichlorobenzene in another aqueous CCV. Non-detect sample results in associated samples were qualified as estimated (coded "UJ").

3) Volatile Organic Compounds

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for both sediment and surface water analyses.
- The LCS %Rs were within control criteria limits with the exception of acetone in analytical batch. Results for acetone in associated samples were qualified as estimated (coded "J").
- Surrogate recoveries for all sediment and surface water analyses were within the control criteria limits.
- All internal standard area responses (ISAs) and retention times were within control limits for all sediment and surface water analyses.
- BFB Tune passed method acceptance criteria for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

4) Explosives

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for sediment and surface water analyses.
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- Surrogate recoveries for all sediment and surface water aanalyses were within the control limits.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.

- The continuing calibration verification was acceptable for all sediment and surface water analyses.

5) Polychlorinated Biphenyls

- Holding times were met for all sediment and surface water analyses.
- All MS and MSD %Rs were within control criteria limits for sediment and surface water analyses.
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- Surrogate recoveries for all sediment and surface water aanalyses were within the control limits.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

6) Total Metals and Cyanide

- Holding times were met for all analyses.
- All MS and MSD %Rs were within control criteria limits except for the antimony recoveries in sediment samples. All antimony results were qualified as estimated (coded "J").
- The LCS %Rs were within control criteria limits for all sediment and surface water analyses.
- The initial calibration was acceptable for all compounds for all sediment and surface water analyses.
- The continuing calibration verification was acceptable for all sediment and surface water analyses.

B. Precision:

1) Polycyclic Aromatic Hydrocarbons

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits.

2) Semi-volatile Organic Compounds

All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits

3) Volatile Organic Compounds

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits

4) Explosives

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits
- Results for several detected compounds in sediment samples were qualified as estimated (coded "J") due high RPD between primary and confirmatory columns due to matrix interferences.

5) Polychlorinated Biphenyls

- All MS/MSD RPDs for sediment and surface water analyses were within control criteria limits.

6) Total Metals and Cyanide

- All MS/MSD RPDs were within control criteria limits for sediment and surface water analyses.
- All matrix duplicate RPDs were within control criteria limits except for aluminum, arsenic, chromium, iron and manganese in sediment sample PBOW-06-SD-AA3-SD12-A and aluminum, chromium, iron, lead, magnesium, manganese, and zinc in sediment sample PBOW-06-SD-AA2-SD11-A. Associated detects in the respective extraction batches were qualified as estimated (coded "J").
- The serial dilution %Ds were within control criteria limits except for potassium in sediment sample PBOW-06-SD-AA3-SD12A. Potassium results in the associated extraction batch were qualified as estimated (coded "J").

C. Laboratory Contamination:

1) Polycyclic Aromatic Hydrocarbons

- Naphthalene was detected in one aqueous method blank. Naphthalene detects in the associated samples were qualified with a "B", indicating the sample results may be false positives.

2) Semi-volatile Organic Compounds

- Bis(2-ethylhexyl)phthalate and/or diethylphthalate were detected in one or more aqueous method blanks. Detects in associated samples were qualified with a "B", indicating the sample results may be false positives.

3) Volatile Organic Compounds

- Acetone and/or toluene were detected in one or more sediment method blank. Detects in associated samples were qualified with a "B", indicating the sample results may be false positives.

2) Explosives

- No contamination was found in any of the associated laboratory blanks.

3) Polychlorinated Biphenyls

- No contamination was found in any of the associated laboratory blanks.

4) Total Metals and Cyanide

- Mercury was detected in both sediment digestion blanks. Mercury results for all sediment samples except PBOW-06-SD-AA2-SD20-A were qualified with "B", indicating results may be false positives. The mercury concentration in PBOW-06-SD-AA2-SD20A was greater than 5x the blank concentration (adjusted for digestion volume and dry weight), so no qualifications were applied.

II. QA DATA EVALUATION

The data evaluation of the QA data is summarized below. All analyses were run under SDGs 605127-GPEG (surface water samples) and 606086-GPEG (sediment samples)

A. Accuracy:

1) Volatile Organic Compounds

- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate recoveries were within control limits except for Toluene-d8 in sample SW-AA2-SW10-B, which was below the laboratory lower limit but within QAPP limits. No qualifiers necessary.
  - Internal standard area responses (ISAs) and retention times were within control limits.
  - BFB tune passed method acceptance criteria.
  - Initial calibration was acceptable for all compounds except acetone, 2-butanone, t-butanol, and cyclohexanone (>30%RSD). No detects in associated field samples. No qualifiers necessary.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable except as follows:
    - Acetone (76%D). All field samples were non-detect and qualified as estimated (UJ).

        - t-butyl alcohol and 1,2-dibromo-3-chloropropane (>25%D). No detects in associated field samples. No qualifiers necessary.
- Sediment Samples
    - Holding times were met for all analyses.
    - MS and MSD samples were not analyzed for this method.
    - LCS recoveries were within control limits except for the following:
        - LCS sample BKS82217: acetone, bromomethane, and chloroethane had recoveries greater than the upper control limit, but within laboratory control limits. No detects in the associated field sample. No qualifiers necessary.
        - LCS sample BKS82225: 2-butanone, acetone, and bromomethane had recoveries greater than the upper control limit, but within laboratory control limits. No detects in associated field samples. No qualifiers necessary.
    - Surrogate recoveries were within control limits except for Toluene d8 in samples SD-AA2-SD18B-RE and SD-AA3-SD08B0RE, which were below the laboratory lower limit but within QAPP limits. No qualifiers necessary.
    - Internal standard area responses (ISAs) and retention times were within control limits.
    - BFB tune passed method acceptance criteria.
    - Initial calibration was acceptable for all compounds except acetone (>30%RSD). No detects in associated field samples. No qualifiers necessary.
    - Initial calibration verification was within acceptance criteria for all compounds.
    - Continuing calibration verification was acceptable except as follows:
        - 06/16/2006 Calibration:
            - Acetone (40.8%D) and bromomethane (24.2%D). No detects in associated field samples. No qualifiers necessary.
        - 06/19/2006 Calibration:
            - Bromomethane (29.7%D), chloroethane (26.7%D), and 2-butanone (30.8%D). No detects in associated field samples. No qualifiers necessary.
            - Acetone (60.0%D). No detects in associated field samples. Results were qualified as estimated (UJ).

2) Semivolatile Organic Compounds

- Surface Water Samples
    - Holding times were met for all analyses.
    - MS and MSD samples were not analyzed for this method.
    - LCS recoveries were within control limits except for 4-nitrophenol and pentachlorophenol which exceeded the upper control limit in both the LCS and the LCSD samples. No detects of acidic compounds in associated field samples. No qualifiers necessary.
    - Surrogate recoveries were within control limits except for the following:
        - p-terphenyl-d14 recovery was less than the lower control limit in sample SW-AA3-SW07-B. The following associated compounds in this sample were qualified as estimated (J/UJ).

- pyrene, butylbenzylphthalate, 3,3'-dichlorobenzidene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate), di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene

  - p-terphenyl-d14 recovery was less than the lower control limit in sample SW-AA2-SW10-B, but was within laboratory control limits. The following associated compounds in this sample were qualified as estimated (J/UJ).
    - pyrene, butylbenzylphthalate, 3,3'-dichlorobenzidene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate), di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene
  - 2,4,6-tribromophenol recovery was greater than the laboratory upper control limit, but within the QAPP control limits. No qualifiers necessary.

- All internal standard area responses (ISAs) and retention times were within control limits.
- DFTPP Tune passed method acceptance criteria.
- Initial calibration was acceptable for all compounds except as follows:
  - benzaldehyde (45%RSD). No detects in associated field samples. No qualifiers necessary.
  - 2,4-dinitrophenol (31.1%RSD). No detects in associated field samples. No qualifiers necessary.
  - 3,3'-dichlorobenzidene (36.3%RSD). No detects in associated field samples. No qualifiers necessary.
- Initial calibration verification was within acceptance criteria for all compounds except as follows:
  - 4-methylphenol and benzoic acid (>130%R). No detects in associated field samples. No qualifiers necessary.
  - 4-nitroaniline, carbazole, and hexachlorocyclopentadiene (60 – 80%R). Results were qualified as estimated (J/UJ).
  - 3-nitroanaline (<70%R). Associated field sample results were all non-detect and qualified as rejected (R).
- Continuing calibration verification was acceptable except as follows:
  - N-nitrosodiphenylamine (28.8%D). No detects in associated field samples. No qualifiers necessary.
  - Atrazine (26.5%D). No detects in associated field samples. No Qualifiers necessary.

- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for the following:
    - 2,4-dinitrotoluene and phenol were greater than the laboratory upper control limit but were within the QAPP control limits. No qualifiers necessary.

        - 2-nitrophenol was greater than the upper control limit. No detects in associated field samples. No qualifiers necessary.
    - LCS recoveries were within control limits except for the following:
        - 2-nitrophenol was greater than the upper control limit. No detects of acidic compounds in associated field samples. No qualifiers necessary.
    - Surrogate spike recoveries were within control limits except for the following:
        - nitrobenzene-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
        - 2,4,6-tribromophenol recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
        - phenol-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in samples SD-AA2-SD07B and SD-AA2-SD18B. No qualifiers necessary.
        - p-terphenyl-d14 recovery was greater than the upper control limit in sample SD-AA2-SD07B. The following associated detected compounds were qualified as estimated (J).
            - pyrene, benzo(a)anthracene, chrysene, bis(2-ethylhexylphthalate),
    - All internal standard area responses (ISAs) and retention times were within control limits.
    - DFTPP Tune passed method acceptance criteria.
    - Initial calibration was acceptable for all compounds except as follows:
        - benzaldehyde (42.5%RSD). No detects in associated field samples. No qualifiers necessary.
        - hexachlorocyclopentadiene (33.7%RSD). No detects in associated field samples. No qualifiers necessary.
        - 2,4-dinitrophenol (39.0%RSD). No detects in associated field samples. No qualifiers necessary.
        - 3,3'-dichlorobenzidene (36.3%RDS). No detects in associated field samples. No qualifiers necessary.
    - Initial calibration verification was within acceptance criteria for all compounds.
    - Continuing calibration verification was acceptable except as follows:
        - hexachlorocyclopentadiene (36.5%D).
        - 3-nitroaniline (36.5%D).
        - 4-nitrophenol (32.6%D).
        - 4-nitroaniline (44.3%D).
        - carbazole (32.1%D).
        - butylbenzylphthalate (27.1%D).
        - bis (2-ethylhexylphthalate) (29.6%D). Associated field sample detects were qualified as estimated (J).
        - atrazine (53.9%D). Associated field sample results were qualified as estimated (J/UJ).

3) <u>Polycyclic Aromatic Hydrocarbons</u>
    - Surface Water Samples

- Holding times were met for all analyses.
- MS and MSD samples were not analyzed for this method.
- LCS recoveries were within control limits.
- Surrogate spike recoveries were within control limits.
- All internal standard area responses (ISAs) and retention times were within control limits.
- DFTPP Tune passed method acceptance criteria.
- Initial calibration was acceptable for all compounds.
- Initial calibration verification was within acceptance criteria for all compounds.
- Continuing calibration verification was acceptable for all compounds.

- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for the following:
    - Benzo(a)pyrene (49%D) was less than the laboratory lower control limit but within QAPP control limits. No qualifiers necessary.
  - LCS recoveries were within control limits except for the following:
    - Acenaphthylene recover was greater than the laboratory upper control limit but within the QAPP control limits. No qualifiers necessary.
  - Surrogate spike recoveries were within control limits except for the following:
    - nitrobenzene-d5 recovery was greater than the laboratory upper control limit but within QAPP control limits in sample SD-AA2-SD07B. No qualifiers necessary.
  - All internal standard area responses (ISAs) and retention times were within control limits.
  - DFTPP Tune passed method acceptance criteria.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.

4) Explosives

- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits except for nitrobenzene which exceeded the laboratory upper control limit but was within QAPP control limits. No qualifiers necessary.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.

- Initial calibration verification was within acceptance criteria for all compounds.
- Continuing calibration verification was acceptable for all compounds.

5) Polychlorinated Biphenyls
- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD samples were not analyzed for this method.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits.
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits.
  - LCS recoveries were within control limits.
  - Surrogate spike recoveries were within control limits except for the following:
    - tetrachloro-m-xylene was marginally low (38%) in both columns in sample SD-AA2-SD07B. Associated field sample results were qualified as estimated (J/UJ).
  - Initial calibration was acceptable for all compounds.
  - Initial calibration verification was within acceptance criteria for all compounds.
  - Continuing calibration verification was acceptable for all compounds.

6) Total Metals and Cyanide
- Surface Water Samples
  - Holding times were met for all analyses.
  - MS and MSD recoveries were within control limits.
  - LCS recoveries were within control limits.
  - Initial calibration was acceptable for all analytes.
  - Initial calibration verification was within acceptance criteria for all analytes.
  - Continuing calibration verification was acceptable for all analytes.
- Sediment Samples
  - Holding times were met for all analyses.
  - MS and MSD were analyzed on samples not from Plum Brook.
  - LCS recoveries were within control limits.
  - Initial calibration was acceptable for all analytes.
  - Initial calibration verification was within acceptance criteria for all analytes.
  - Continuing calibration verification was acceptable for all analytes.

B. Precision:

1) Volatile Organic Compounds
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.

- No LCSD samples were analyzed for this method.

- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits except the following. No records were qualified due to MS/MSD RPD exceedances.
    - 2-butanone (68%RPD)
    - 2-hexanone (113%RPD)
    - 4-methyl-2-pentanone (40%RPD)
  - No field duplicate samples were analyzed for this method.
  - No LCSD samples were analyzed for this method.

2) Semivolatile Organic Compounds
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - LCS/LCSD RPDs were within acceptable limits.

3) Polycyclic Aromatic Hydrocarbons
- Surface Water Samples
  - No MS/MSD samples were analyzed for this method.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
  - .

4) Explosives
- Surface Water Samples
  - MS/MSD RPD values within acceptable range.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.
- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.

5) Polychlorinated Biphenyls
- Surface Water Samples

- MS/MSD RPD values within acceptable range.
- No field duplicate samples were analyzed for this method.
- LCS/LCSD RPDs were within acceptable limits.

- Sediment Samples
  - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
  - No field duplicate samples were analyzed for this method.
  - LCS/LCSD RPDs were within acceptable limits.

6) Total Metals and Cyanide
   - Surface Water Samples
     - MS/MSD RPD values within acceptable range.
     - No field duplicate samples were analyzed for this method.
     - No LCSD samples were analyzed for this method.
     - Serial dilution results were within limits except for the following:
       - Copper (206%). Sample concentration <50X IDL. No qualifiers necessary.
       - Silver (100%). Sample concentration <50X IDL. No qualifiers necessary.
       - Thallium (132%). Sample concentration <50X IDL. No qualifiers necessary.
       - Zinc (122%). Sample concentration <50X IDL. No qualifiers necessary.
   - Sediment Samples
     - MS and MSD were analyzed on samples not from Plum Brook. All RPDs were within acceptable limits.
     - No field duplicate samples were analyzed for this method.
     - No LCSD samples were analyzed for this method.
     - Serial dilution analyzed on samples not from Plum Brook.

C. Sensitivity

1) Volatile Organic Compounds
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

2) Semivolatile Organic Compounds
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

3) Polycyclic Aromatic Hydrocarbons
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples

- MDLs support sensitivity requirements.

4) Explosives
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

5) Polychlorinated Biphenyls
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

6) Total Metals and Cyanide
   - Surface Water Samples
     - MDLs support sensitivity requirements.
   - Sediment Samples
     - MDLs support sensitivity requirements.

D. Laboratory Contamination:

1) Volatile Organic Compounds
   - Surface Water Samples
     - Acetone and methylene chloride were detected in the method blank.
       - Acetone: No detects in associated field samples. No qualifiers necessary.
       - Methylene chloride: Detected in all associated field samples. Results were qualified to indicate blank contamination (JB).
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

2) Semivolatile Organic Compounds
   - Surface Water Samples
     - No detected target compounds in associated laboratory blanks.
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

3) Polycyclic Aromatic Hydrocarbons
   - Surface Water Samples
     - No detected target compounds in associated laboratory blanks.
   - Sediment Samples
     - No detected target compounds in associated laboratory blanks.

4) Explosives
   - Surface Water Samples

- No detected target compounds in associated laboratory blanks.
- Sediment Samples
  - No detected target compounds in associated laboratory blanks.

5) Polychlorinated Biphenyls
- Surface Water Samples
  - No detected target compounds in associated laboratory blanks.
- Sediment Samples
  - No detected target compounds in associated laboratory blanks.

6) Total Metals and Cyanide
- Surface Water Samples
  - Barium, calcium, cobalt, copper, magnesium, sodium, thallium and zinc were detected in laboratory blanks. The following records have been qualified to indicate blank contamination.
    - All field sample copper results were qualified (B/JB).
    - The thallium result for one field sample, SW-AA2-SW21, was qualified (JB).
    - Two zinc detections in field samples SW-AA2-SW10 and SW-AA2-SW21 were qualified (B).
- Sediment Samples
  - Cadmium and sodium were detected in laboratory blanks. The following records have been qualified to indicate blank contamination.
    - All field sample cadmium results were qualified (B/JB).
    - All field sample sodium results were qualified (B/JB).

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a data comparison of the QA and QC data was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
All	All	>5x difference when one result is < DL	>10x difference when one result is < DL
All	All	>3x difference when one result is < RL	>5x difference when one result is < RL
Water	All	>2x difference	>3x difference
Soil	VOCs only	>5x difference	>10x difference
Soil	Metals only	>2x difference	>3x difference
Soil	All except VOCs and metals	>4x difference	>5x difference

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Various factors can contribute to duplicate

disagreement, including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends ore extreme non-conformances exist, associated data were evaluated carefully to determine their validity. It should be noted that samples found in disagreement did not necessarily indicate an error had been made or inappropriate procedures used.

Attachment III presents tables that show a side-by-side comparison of the analytical results of the field QC and QA samples. A summary of the evaluation of this comparison is presented below.

A. Volatile Organic Compounds

- Surface Water Samples – no disagreements.
- Sediment Samples – one disagreement.
    - Methylcyclohexane was reported at a concentration of 10 ug/Kg in one primary laboratory sample. The corresponding QA sample was non-detect with an MDL of 1.9 ug/Kg and a PQL of 9.6 ug/Kg. The detected concentration is 5.26 times the non-detect MDL.

B. Semivolatile Organic Compounds

- Surface Water Samples – no disagreements.
- Sediment Samples – 1 disagreement.
    - Fluoranthene was reported in one primary laboratory sample at a concentration of 43 ug/Kg which is below the PQL of 84. The corresponding QA sample was reported at a concentration of 21 ug/Kg. The primary sample MDL and PQL are both greater than the QA sample reported concentration. The primary laboratory sample estimated concentration of 43 ug/Kg is only 2.0 time the QA sample concentration. If the estimated primary sample concentration is treated as a positive detection, there is no disagreement.

C. Polycyclic Aromatic Hydrocarbons

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

D. Explosives

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

E. Polychlorinated Biphenyls

- Surface Water Samples – no disagreements.
- Sediment Samples – 1 major disagreement.
    - PCB-1260 was reported in one primary laboratory sample at a concentration of 760 ug/Kg. The concentration in the corresponding QA sample was reported at

74 ug/Kg. The primary laboratory sample concentration is 10.3 times the reported QA laboratory sample concentration.

F. Total Metals

- Surface Water Samples – 4 disagreements, 3 major disagreements.
  - Cobalt was reported as not-detected in three primary laboratory samples with an MDL of 3.0 ug/L and a PQL of 12.5 ug/L. The corresponding QA samples reported detections of 0.43, 0.18, and 0.098 ug/L. The QA sample concentrations are all much lower than the primary laboratory MDL for cobalt. The primary laboratory analyzed cobalt by method SW6010 while the QA laboratory used method SW6020.
  - Iron was reported in two primary laboratory samples at concentrations of 307 and 102 ug/L. The corresponding QA sample reported concentrations of 971 and 284 ug/L respectively. The QA sample concentrations are 3.2 and 2.8 times the primary laboratory samples (major disagreement and disagreement). The primary laboratory analyzed iron by method SW6010 while the QA laboratory used method SW6020.
  - Manganese was reported in one primary laboratory sample at a concentration of 9.1 ug/L which is below the PQL of 15 ug/L. The corresponding QA sample concentration was reported at 60.5 ug/L. (major disagreement) The primary laboratory analyzed manganese by method SW6010 while the QA laboratory used method SW6020.
  - Thallium was reported as a non-detect in one primary laboratory sample with an MDL of 3.0 ug/L and a PQL of 10 ug/L. The corresponding QA sample concentration was reported at 0.3 ug/L which is much lower than the primary laboratory MDL. The primary laboratory analyzed thallium by method SW6010 while the QA laboratory used method SW6020.

- Sediment Samples – 2 major disagreements.
  - Cadmium was reported in two primary laboratory samples at concentrations of 0.44 and 0.51 ug/Kg which are below the PQLs of 1.3 and 1.7 ug/Kg. The corresponding QA samples were reported with concentrations of 0.11 and 0.15 ug/Kg which are both below the primary laboratory reporting limits of 0.27 and 0.34 ug/Kg.

G. Cyanide

- Surface Water Samples – no disagreements.
- Sediment Samples – no disagreements.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. Qualifiers were added to specific data results to indicate estimated concentrations when data results were not within specific validation criteria. All of the results were considered

usable except for 56 records that were qualified as rejected/non-detect due to laboratory QC problems. The following data were rejected:

- Semivolatile Organic Compounds – Sediment – Primary Laboratory
  - Benzoic acid (22 samples)
- Semivolatile Organic Compounds – Surface Water – Primary Laboratory
  - 2,4,5- Trichlorophenol (1 sample)
  - 2,4-Dinitrophenol (1 sample)
  - 4,6-Dinitro-2-methylphenol (1 sample)
  - 4-Nitrophenol (2 samples)
  - Benzoic acid (17 samples)
  - Pentachlorophenol (1 sample)
  - Phenol (1 sample)
- Semivolatile Organic Compounds – Surface Water – QA Laboratory
  - 3-Nitroaniline (3 samples)
- Polycyclic Aromatic Hydrocarbons – Sediment – Primary laboratory
  - Benzo(a)pyrene (1 sample)
  - Benzo(b)fluoranthane (1 sample)
  - Benzo(g,h,i)perylene (1 sample)
  - Benzo(k)fluoranthene (1 sample)
  - Dibenz(a,h)anthracene (2 samples)
  - Indeno(1,2,3-cd)pyrene (1 sample)

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. A total of 56 results (0.2%) were found to be unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

The disagreements between the primary and QA laboratory were minimal and were often associated with the analytical methodology used. In most cases, the MDLs and PQLs from both laboratories were under any action level or Region IX PRG values. The only exception is for thallium in surface water, where the action level of 0.24 µg/l was only achieved using method SW6020.

ATTACHEMNT I – SAMPLE CORRELATION

Plum Brook Acid Areas 2 and 3

ELAB Primary Laboratory and GPL QA Confirmation Laboratory Sample Cross Reference

Lab	Sample Date/Time	Location	Field Sample ID	Lab Sample_id	SDG	Method(s)
Sediment Samples						
Primary - ELAB	6/12/2006 10:35	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30DLN1	PLUMBROOKS004-	SW8082
Primary - ELAB	6/12/2006 10:35	AA2-SWSD-07	PBOW-06-SD-AA2-SD07-A	0606089-30N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-004-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-011-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 10:35	AA2-SWSD-07	PBOW.06.SD.AA2.SD07.B	606086-002-015-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Primary - ELAB	6/12/2006 11:15	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32DLN1	PLUMBROOKS004-	SW8082
Primary - ELAB	6/12/2006 11:15	AA2-SWSD-18	PBOW-06-SD-AA2-SD18-A	0606089-32N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-007-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-008-2/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-012-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 11:15	AA2-SWSD-18	PBOW.06.SD.AA2.SD18.B	606086-003-017-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Primary - ELAB	6/12/2006 08:40	AA3-SWSD-08	PBOW-06-SD-AA3-SD08-A	0606089-34N1	PLUMBROOKS004-	SW6010, SW7471, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-001-1/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-002-2/3N1	SDG606086-GPEG	SW8260B
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-010-1/1N1	SDG606086-GPEG	CLP_SOLIDS, SW6010B, SW7471A, SW9014T
Confirmation - GPL	6/12/2006 08:40	AA3-SWSD-08	PBOW.06.SD.AA3.SD08.B	606086-001-013-1/2N1	SDG606086-GPEG	SW8082, SW8270C, SW8270_PAH, SW8330
Surface Water Samples						
Primary - ELAB	5/21/2006 11:00	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605288-19N1	PLUMBROOKW004-	SW8260
Primary - ELAB	5/21/2006 11:00	AA2-SWSD-10	PBOW-06-SW-AA2-SW10-A	0605305-05N1	PLUMBROOKW004-	SW6010, SW7470, SW8082, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-005-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-011-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-017-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-021-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-024-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	1/3/1900 11:00	AA2-SWSD-10	PBOW.06.SW.AA2.SW10.B	605127-004-031-1/3N1	SDG605127-GPEG	SW8260B
Primary - ELAB	5/20/2006 12:20	AA2-SWSD-21	PBOW-06-SW-AA2-SW21-A	0605288-06N1	PLUMBROOKW003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-003-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-009-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-015-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-020-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-023-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	5/20/2006 12:20	AA2-SWSD-21	PBOW.06.SW.AA2.SW21.B	605127-003-028-1/3N1	SDG605127-GPEG	SW8260B
Primary - ELAB	5/19/2006 14:20	AA3-SWSD-07	PBOW-06-SW-AA3-SW07-A	0605270-07N1	PLUMBROOKW003-	SW6010, SW7470, SW8082, SW8260, SW8270, SW8270_PAH, SW8330, SW9012
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-001-1/2N1	SDG605127-GPEG	SW8270C, SW8270_PAH
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-007-1/2N1	SDG605127-GPEG	SW8082
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-013-1/2N1	SDG605127-GPEG	SW8330
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-019-1/1N1	SDG605127-GPEG	SW6020, SW7470A
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-022-1/1N1	SDG605127-GPEG	SW9014T
Confirmation - GPL	5/21/2006 14:20	AA3-SWSD-07	PBOW.06.SW.AA3.SW07.B	605127-001-025-1/3N1	SDG605127-GPEG	SW8260B

ATTACHEMNT II – QA DATA SUMMARIES

Volatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/L	1.6 U	1.6 U	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	1.4 U	1.4 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.95 U	0.95 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	1.4 U	1.4 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	2 U	2 U	2 U
SW8260	1,2,4-Trichlorobenzene	ug/L	1.7 U	1.7 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	2.6 U	2.6 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.95 U	0.95 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.65 U	0.65 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.97 U	0.97 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	4.2 U	4.2 U	4.2 U
SW8260	2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	2 U	2 U	2 U
SW8260	Acetone	ug/L	2.6 UJ	2.6 UJ	2.6 UJ
SW8260	Benzene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	Bromodichloromethane	ug/L	0.96 U	0.96 U	0.96 U
SW8260	Bromoform	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Bromomethane	ug/L	3.2 U	3.2 U	3.2 U
SW8260	Carbon Disulfide	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	2.1 U	2.1 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.81 U	0.81 U	0.81 U
SW8260	Chloroethane	ug/L	2.6 U	2.6 U	2.6 U
SW8260	Chloroform	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Chloromethane	ug/L	1.5 U	1.5 U	1.5 U
SW8260	Cyclohexane	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.49 U	0.49 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	1.8 U	1.8 U	1.8 U
SW8260	Ethylbenzene	ug/L	1.4 U	1.4 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	1.3 U	1.3 U	1.3 U
SW8260	Methyl Acetate	ug/L	1.6 U	1.6 U	1.6 U
SW8260	Methylcyclohexane	ug/L	1.8 U	1.8 U	1.8 U
SW8260	Methylene Chloride	ug/L	6.4 JB	5.6 JB	6.2 JB
SW8260	Styrene	ug/L	1 U	1 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.6 U	0.6 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	2.3 U	2.3 U	2.3 U
SW8260	Toluene	ug/L	1.1 U	1.1 U	1.1 U
SW8260	Trichloroethene (TCE)	ug/L	1.9 U	1.9 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	1.9 U	1.9 U	1.9 U

J - Estimated Value, U - Non-detection, ,jected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
SW8260	Vinyl chloride	ug/L	2.1 U	2.1 U	2.1 U
SW8260	cis-1,2-Dichloroethene	ug/L	1.2 U	1.2 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.96 U	0.96 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L	2.1 U	2.1 U	2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L	1.3 U	1.3 U	1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	1.5 U	1.5 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.87 U	0.87 U	0.87 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Semivolatile Organic Compounds				
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L	0.78 U	0.74 U	0.75 U
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 U	1 U	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	0.92 U	0.87 U	0.88 U
SW8270	2,4-Dichlorophenol	ug/L	1.8 U	1.7 U	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1.7 U	1.6 U	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	7.3 U	6.9 U	7 U
SW8270	2,4-Dinitrotoluene	ug/L	1.3 UJ	1.3 U	1.3 UJ
SW8270	2,6-Dinitrotoluene	ug/L	0.95 UJ	0.89 U	0.91 UJ
SW8270	2-Chloronaphthalene	ug/L	0.52 UJ	0.49 U	0.5 UJ
SW8270	2-Chlorophenol	ug/L	0.82 U	0.76 U	0.78 U
SW8270	2-Methylnaphthalene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.6 U	1.5 U	1.5 U
SW8270	2-Nitroaniline	ug/L	0.84 UJ	0.79 U	0.8 UJ
SW8270	2-Nitrophenol	ug/L	2.2 U	2.1 U	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	7 UJ	6.6 U	6.7 UJ
SW8270	3-Nitroaniline	ug/L	UR	UR	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	4.8 U	4.4 U	4.6 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1.4 UJ	1.3 U	1.4 UJ
SW8270	4-Chloro-3-methylphenol	ug/L	2 U	1.9 U	1.9 U
SW8270	4-Chloroaniline	ug/L	1.9 UJ	1.8 U	1.8 UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 UJ	0.97 U	0.99 UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	3 U	2.8 U	2.8 U
SW8270	4-Nitroaniline	ug/L	2.1 UJ	2 UJ	2 UJ
SW8270	4-Nitrophenol	ug/L	3.9 U	3.6 U	3.7 U
SW8270	Acenaphthene	ug/L	0.6 UJ	0.56 U	0.57 UJ
SW8270	Acenaphthylene	ug/L	0.56 UJ	0.53 U	0.54 UJ
SW8270	Acetophenone	ug/L	0.9 UJ	0.85 U	0.86 UJ
SW8270	Anthracene	ug/L	1.1 UJ	1 U	1 UJ
SW8270	Atrazine	ug/L	1.6 UJ	1.5 U	1.5 UJ
SW8270	Benzaldehyde	ug/L	3 UJ	2.8 U	2.8 UJ
SW8270	Benzo(a)anthracene	ug/L	0.96 UJ	0.9 U	0.92 UJ
SW8270	Benzo(a)pyrene	ug/L	0.61 UJ	0.57 U	0.58 UJ
SW8270	Benzo(b)fluoranthene	ug/L	0.66 UJ	0.62 U	0.64 UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1.5 UJ	1.4 U	1.4 UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 UJ	0.99 U	1 UJ
SW8270	Benzyl butyl phthalate	ug/L	0.97 UJ	0.91 U	0.93 UJ
SW8270	Biphenyl (Diphenyl)	ug/L	0.36 UJ	0.34 U	0.34 UJ
SW8270	Caprolactam	ug/L	1.6 UJ	1.6 U	1.6 U
SW8270	Carbazole	ug/L	1.4 UJ	1.3 UJ	1.4 UJ
SW8270	Chrysene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	Di-n-butylphthalate	ug/L	1.9 UJ	1.8 U	1.8 UJ
SW8270	Di-n-octylphthalate	ug/L	1.4 UJ	1.3 U	1.4 UJ

J - Estimated Value, U - Non-detection, acted, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
SW8270	Dibenz(a,h)anthracene	ug/L	1.5 UJ	1.4 U	1.4 UJ
SW8270	Dibenzofuran	ug/L	0.8 UJ	0.76 U	0.77 UJ
SW8270	Diethylphthalate	ug/L	3.7 UJ	3.4 U	3.5 UJ
SW8270	Dimethylphthalate	ug/L	3.4 UJ	3.2 U	3.2 UJ
SW8270	Fluoranthene	ug/L	1.4 UJ	1.3 U	1.4 UJ
SW8270	Fluorene	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	Hexachlorobenzene	ug/L	1.2 UJ	1.2 U	1.2 UJ
SW8270	Hexachlorobutadiene	ug/L	0.54 UJ	0.51 U	0.52 UJ
SW8270	Hexachlorocyclopentadiene	ug/L	4.6 UJ	4.3 UJ	4.4 UJ
SW8270	Hexachloroethane	ug/L	0.47 UJ	0.44 U	0.45 UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.3 UJ	1.2 U	1.2 UJ
SW8270	Isophorone	ug/L	0.61 UJ	0.57 U	0.58 UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.79 UJ	0.74 U	0.76 UJ
SW8270	N-Nitrosodiphenylamine	ug/L	0.99 UJ	0.93 U	0.95 UJ
SW8270	Naphthalene	ug/L	0.48 UJ	0.45 U	0.46 UJ
SW8270	Nitrobenzene	ug/L	0.56 UJ	0.53 U	0.54 UJ
SW8270	Pentachlorophenol	ug/L	2.9 U	2.8 U	2.8 U
SW8270	Phenanthrene	ug/L	1.6 UJ	1.5 U	1.6 UJ
SW8270	Phenol	ug/L	1.3 U	1.2 U	1.3 U
SW8270	Pyrene	ug/L	0.67 UJ	0.63 U	0.65 UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	0.59 UJ	0.55 U	0.56 UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	0.86 UJ	0.81 U	0.82 UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	0.78 UJ	0.74 U	0.75 UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	7.4 JB	6.5 JB	4.3 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Polyaromatic Hydrocarbon (PAH) Compounds				
SW8270 PAH	Acenaphthene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Acenaphthylene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Anthracene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.04 U	0.04 U	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.021 U	0.02 U	0.021 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.01 U	0.01 U	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Chrysene	ug/L	0.021 U	0.02 U	0.021 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.01 U	0.01 U	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.052 U	0.051 U	0.052 U
SW8270 PAH	Fluorene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.03 U	0.03 U	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.031 U	0.03 U	0.031 U
SW8270 PAH	Phenanthrene	ug/L	0.042 U	0.04 U	0.042 U
SW8270 PAH	Pyrene	ug/L	0.031 U	0.03 U	0.031 U

Polychlorinated Biphenyls (PCBs) in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.08 U	0.07 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.29 U	0.28 U	0.27 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.46 U	0.44 U	0.43 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.1 U	0.09 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.07 U	0.06 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.24 U	0.23 U	0.22 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.08 U	0.07 U	0.07 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/L	0.054 U	0.054 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.036 U	0.036 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.064 U	0.064 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.028 U	0.028 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.052 U	0.052 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.056 U	0.056 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.098 U	0.098 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.044 U	0.044 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.1 U	0.1 U	0.1 U
SW8330	HMX	ug/L	0.027 U	0.027 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.022 U	0.022 U	0.022 U
SW8330	RDX	ug/L	0.1 U	0.1 U	0.1 U
SW8330	Tetryl	ug/L	0.045 U	0.045 U	0.045 U

J - Estimated Value, U - Non-detection, . ,acted, B - Found in Blank

Metals in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Metals				
SW6020	Aluminum	ug/L	483	27.6	47.7
SW6020	Antimony	ug/L	0.13 U	0.13 U	0.13 U
SW6020	Arsenic	ug/L	1 U	1 U	1 U
SW6020	Barium	ug/L	36.3	33	34.8
SW6020	Beryllium	ug/L	0.028 U	0.028 U	0.028 U
SW6020	Cadmium	ug/L	0.17 U	0.17 U	0.17 U
SW6020	Calcium	ug/L	115000	103000	92900
SW6020	Chromium	ug/L	1.3 U	1.3 U	1.3 U
SW6020	Cobalt	ug/L	0.43	0.18	0.098
SW6020	Copper	ug/L	2.1 B	1.4 JB	1.6 JB
SW6020	Iron	ug/L	971	284	195
SW6020	Lead	ug/L	2.5	0.31 J	1.6
SW6020	Magnesium	ug/L	24800	23900	22500
SW6020	Manganese	ug/L	40.8	60.5	29.5
SW7470	Mercury	ug/L	0.062 U	0.062 U	0.062 U
SW6020	Nickel	ug/L	1.8	1.3	0.91
SW6020	Potassium	ug/L	1670	2220	406
SW6020	Selenium	ug/L	0.75 U	0.75 U	0.75 U
SW6020	Silver	ug/L	0.029 U	0.10 J	0.047 JB
SW6020	Sodium	ug/L	3880	3760	3060
SW6020	Thallium	ug/L	0.074 U	0.12 JB	0.3
SW6020	Vanadium	ug/L	2.5 U	2.5 U	2.5 U
SW6020	Zinc	ug/L	15.3 B	9.0 B	11

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Surface Waters
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Result
	Wet Chemistry				
SW9014	Cyanide	ug/L	5 U	5 U	5 U

Volatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Volatile Organic Compounds				
SW8260	1,1,1-Trichloroethane	ug/Kg	1.9 U	1.4 U	1.7 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	2.5 U	1.9 U	2.4 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	2 U	1.4 U	1.8 U
SW8260	1,1,2-Trichloroethane	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	1,1-Dichloroethane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	1,1-Dichloroethene	ug/Kg	1.8 U	1.4 U	1.7 U
SW8260	1,2,4-Trichlorobenzene	ug/Kg	4.7 U	3.5 U	4.4 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	1,2-Dichlorobenzene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	1,2-Dichloroethane	ug/Kg	2 U	1.4 U	1.8 U
SW8260	1,2-Dichloropropane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	1,3-Dichlorobenzene	ug/Kg	2.8 U	2 U	2.6 U
SW8260	1,4-Dichlorobenzene	ug/Kg	2.4 U	1.8 U	2.2 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	4.8 U	3.6 U	4.5 U
SW8260	2-Hexanone	ug/Kg	3 U	2.2 U	2.8 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	2.8 U	2 U	2.6 U
SW8260	Acetone	ug/Kg	5.6 UJ	4.2 UJ	5.2 UJ
SW8260	Benzene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	Bromodichloromethane	ug/Kg	1.8 U	1.3 U	1.7 U
SW8260	Bromoform	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Bromomethane	ug/Kg	2.2 U	1.6 U	2 U
SW8260	Carbon Disulfide	ug/Kg	1.2 U	0.92 U	1.2 U
SW8260	Carbon tetrachloride	ug/Kg	1.6 U	1.2 U	1.5 U
SW8260	Chlorobenzene	ug/Kg	2.2 U	1.7 U	2.1 U
SW8260	Chloroethane	ug/Kg	2.1 U	1.6 U	2 U
SW8260	Chloroform	ug/Kg	2.1 U	1.5 U	2 U
SW8260	Chloromethane	ug/Kg	2 U	1.5 U	1.8 U
SW8260	Cyclohexane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Dibromochloromethane	ug/Kg	1.9 U	1.4 U	1.8 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.8 U	1.3 U	1.7 U
SW8260	Ethylbenzene	ug/Kg	2.6 U	1.9 U	2.4 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Methyl Acetate	ug/Kg	5.6 U	4.1 U	5.2 U
SW8260	Methylcyclohexane	ug/Kg	2 U	1.5 U	1.9 U
SW8260	Methylene Chloride	ug/Kg	5.3 J	1.7 U	2.2 U
SW8260	Styrene	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	2.2 U	1.6 U	2 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	2.7 U	2 U	2.5 U
SW8260	Toluene	ug/Kg	2.3 U	1.7 U	2.1 U
SW8260	Trichloroethene (TCE)	ug/Kg	2.2 U	1.7 U	2.1 U
SW8260	Trichlorofluoromethane	ug/Kg	1.9 U	1.4 U	1.7 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
SW8260	Vinyl chloride	ug/Kg	2 U	1.4 U	1.8 U
SW8260	cis-1,2-Dichloroethene	ug/Kg	2 U	1.5 U	1.9 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	1.6 U	1.2 U	1.4 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg	4.9 U	3.6 U	4.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg	1.2 U	0.91 U	1.1 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	2 U	1.4 U	1.8 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	2.3 U	1.7 U	2.1 U

Semivolatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Semivolatile Organic Compounds				
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg	46 U	33 U	45 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	140 U	97 U	130 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	120 U	89 U	120 U
SW8270	2,4-Dichlorophenol	ug/Kg	82 U	60 U	80 U
SW8270	2,4-Dimethylphenol	ug/Kg	95 U	68 U	93 U
SW8270	2,4-Dinitrophenol	ug/Kg	310 U	220 U	300 U
SW8270	2,4-Dinitrotoluene	ug/Kg	56 U	300 JB	55 U
SW8270	2,6-Dinitrotoluene	ug/Kg	56 U	40 U	54 U
SW8270	2-Chloronaphthalene	ug/Kg	60 U	43 U	58 U
SW8270	2-Chlorophenol	ug/Kg	91 U	66 U	89 U
SW8270	2-Methylnaphthalene	ug/Kg	58 U	42 U	56 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	96 U	69 U	94 U
SW8270	2-Nitroaniline	ug/Kg	62 U	45 U	61 U
SW8270	2-Nitrophenol	ug/Kg	120 U	84 U	110 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	150 U	110 U	140 U
SW8270	3-Nitroaniline	ug/Kg	70 U	50 U	68 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	190 U	140 U	190 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	53 U	38 U	52 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	120 U	85 U	120 U
SW8270	4-Chloroaniline	ug/Kg	110 U	78 U	100 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	47 U	34 U	46 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	170 U	120 U	160 U
SW8270	4-Nitroaniline	ug/Kg	120 U	89 U	120 U
SW8270	4-Nitrophenol	ug/Kg	130 U	97 U	130 U
SW8270	Acenaphthene	ug/Kg	53 U	38 U	52 U
SW8270	Acenaphthylene	ug/Kg	47 U	34 U	46 U
SW8270	Acetophenone	ug/Kg	47 U	34 U	46 U
SW8270	Anthracene	ug/Kg	57 U	150 JB	56 U
SW8270	Atrazine	ug/Kg	130 UJ	97 UJ	130 UJ
SW8270	Benzaldehyde	ug/Kg	340 U	240 U	330 U
SW8270	Benzo(a)anthracene	ug/Kg	54 JB	800	34 U
SW8270	Benzo(a)pyrene	ug/Kg	37 U	730	36 U
SW8270	Benzo(b)fluoranthene	ug/Kg	30 U	940	29 U
SW8270	Benzo(g,h,i)perylene	ug/Kg	79 U	380 JB	77 U
SW8270	Benzo(k)fluoranthene	ug/Kg	27 U	430	26 U
SW8270	Benzyl butyl phthalate	ug/Kg	58 U	42 U	56 U
SW8270	Biphenyl (Diphenyl)	ug/Kg	58 U	42 U	57 U
SW8270	Caprolactam	ug/Kg	60 U	44 U	59 U
SW8270	Carbazole	ug/Kg	97 U	70 U	94 U
SW8270	Chrysene	ug/Kg	60 JB	630	34 U
SW8270	Di-n-butylphthalate	ug/Kg	120 JB	72 JB	270 JB
SW8270	Di-n-octylphthalate	ug/Kg	42 U	30 U	40 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
SW8270	Dibenz(a,h)anthracene	ug/Kg	65 U	110 JB	64 U
SW8270	Dibenzofuran	ug/Kg	53 U	38 U	52 U
SW8270	Diethylphthalate	ug/Kg	200 U	150 U	200 U
SW8270	Dimethylphthalate	ug/Kg	200 U	140 U	200 U
SW8270	Fluoranthene	ug/Kg	78 JB	1500	72 U
SW8270	Fluorene	ug/Kg	40 U	29 U	39 U
SW8270	Hexachlorobenzene	ug/Kg	51 U	37 U	50 U
SW8270	Hexachlorobutadiene	ug/Kg	52 U	38 U	51 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	580 U	420 U	570 U
SW8270	Hexachloroethane	ug/Kg	57 U	41 U	56 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	68 U	370 JB	66 U
SW8270	Isophorone	ug/Kg	41 U	30 U	40 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	39 U	28 U	38 U
SW8270	N-Nitrosodiphenylamine	ug/Kg	32 U	23 U	31 U
SW8270	Naphthalene	ug/Kg	44 U	32 U	43 U
SW8270	Nitrobenzene	ug/Kg	51 U	37 U	50 U
SW8270	Pentachlorophenol	ug/Kg	140 U	100 U	140 U
SW8270	Phenanthrene	ug/Kg	69 U	310 JB	67 U
SW8270	Phenol	ug/Kg	100 U	73 U	98 U
SW8270	Pyrene	ug/Kg	74 JB	1200	63 U
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	46 U	33 U	45 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	58 U	42 U	56 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	46 U	33 U	45 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	96 JB	150 JB	220 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Polyaromatic Hydrocarbon (PAH) Compounds				
SW8270 PAH	2-Methylnaphthalene	ug/Kg			
SW8270 PAH	Acenaphthene	ug/Kg	1.8 U	11	1.8 U
SW8270 PAH	Acenaphthylene	ug/Kg	24	72	1.2 U
SW8270 PAH	Anthracene	ug/Kg	22	140	1.7 U
SW8270 PAH	Benzo(a)anthracene	ug/Kg	74	450	8.7 U
SW8270 PAH	Benzo(a)pyrene	ug/Kg	66	400	8.1 JB
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	98	520	13
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	45	240	7.0 JB
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	34	210	7.0 JB
SW8270 PAH	Chrysene	ug/Kg	73	400	12
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	16	3.8 U	5.2 U
SW8270 PAH	Fluoranthene	ug/Kg	130	680	21
SW8270 PAH	Fluorene	ug/Kg	6.5 JB	19	1.7 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	45	240	6.4 JB
SW8270 PAH	Naphthalene	ug/Kg	1.2 U	31	1.2 U
SW8270 PAH	Phenanthrene	ug/Kg	38	280	12 J
SW8270 PAH	Pyrene	ug/Kg	100	600	17

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Polychlorinated Biphenyls (PCBs)				
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	2.1 U	15 U	2.1 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	0.059 U	0.43 U	0.058 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	18 U	130 U	17 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	8.2 U	59 U	8 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	12 U	90 U	12 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	13 U	92 U	12 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	74	1400	68

J - Estimated Value, U - Non-detection, ,acted, B - Found in Blank

Explosive Compounds in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Explosives				
SW8330	1,3,5-Trinitrobenzene	ug/Kg	29 U	30 U	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	5.2 U	5.2 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	20 U	230	20 U
SW8330	2,4-Dinitrotoluene	ug/Kg	35 U	200	35 U
SW8330	2,6-Dinitrotoluene	ug/Kg	18 U	18 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	25 U	25 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	21 U	22 U	21 U
SW8330	3-Nitrotoluene	ug/Kg	55 U	55 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	15 U	15 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	89 U	90 U	90 U
SW8330	HMX	ug/Kg	29 U	70 JB	30 U
SW8330	Nitrobenzene	ug/Kg	16 U	16 U	27 JB
SW8330	RDX	ug/Kg	180 U	180 U	180 U
SW8330	Tetryl	ug/Kg	35 U	35 U	35 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Metals				
SW6010	Aluminum	mg/Kg	12400	10500	12200
SW6010	Antimony	mg/Kg	0.35 U	0.58 JB	0.52 JB
SW6010	Arsenic	mg/Kg	6.2	10	9.8
SW6010	Barium	mg/Kg	66.7	66.8	81.3
SW6010	Beryllium	mg/Kg	0.63	0.63	0.63
SW6010	Cadmium	mg/Kg	0.028 JB	0.11 B	0.15 B
SW6010	Calcium	mg/Kg	6470	3210	59500
SW6010	Chromium	mg/Kg	20	19.5	20.2
SW6010	Cobalt	mg/Kg	7.9	9.2	9.4
SW6010	Copper	mg/Kg	21.5	27	23.3
SW6010	Iron	mg/Kg	21900	29000	23800
SW6010	Lead	mg/Kg	70.1	61.6	23.3
SW6010	Magnesium	mg/Kg	3400	2250	16000
SW6010	Manganese	mg/Kg	162	131	391
SW7471	Mercury	mg/Kg	0.078	0.054	0.032 JB
SW6010	Nickel	mg/Kg	23.2	27	25.9
SW6010	Potassium	mg/Kg	1930	1420	2200
SW6010	Selenium	mg/Kg	1.9	1.4	1.9
SW6010	Silver	mg/Kg	0.07 U	0.043 U	0.07 U
SW6010	Sodium	mg/Kg	101 JB	65.2 JB	146 B
SW6010	Thallium	mg/Kg	0.97 U	1.2 JB	0.97 U
SW6010	Vanadium	mg/Kg	32.8	24.5	31.8
SW6010	Zinc	mg/Kg	75	117	81.1

J - Estimated Value, U - Non-detection, ı ,ected, B - Found in Blank

Cyanide in Sediments
GPL QA Confirmation Laboratory

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Result
	Wet Chemistry				
SW9014	Cyanide	mg/Kg	0.24 U	0.19 U	0.24 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

ATTACHMENT III – QA/QC DATA COMPARISON

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/L	0.15 U	1.6 U	0.15 U	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.22 U	1.2 U	0.22 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.22 U	1.4 U	0.22 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.17 U	0.95 U	0.17 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	0.15 U	1.4 U	0.15 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	0.42 U	2 U	0.42 U	2 U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.16 U		0.16 U	
SW8260	1,2,4-Trichlorobenzene	ug/L	0.14 U	1.7 U	0.14 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.28 U	2.6 U	0.28 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.14 U	1.2 U	0.14 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	0.17 U	1.2 U	0.17 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.15 U	0.95 U	0.15 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.18 U	0.65 U	0.18 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.21 U	0.97 U	0.21 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	0.12 U	1 U	0.12 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1.2 U	4.2 U	1.2 U	4.2 U
SW8260	2-Hexanone	ug/L	0.83 U	2.5 U	0.83 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1.4 U	2 U	1.4 U	2 U
SW8260	Acetone	ug/L	1.1 U	2.6 UJ	1.1 U	2.6 UJ
SW8260	Benzene	ug/L	0.11 U	1.2 U	0.11 U	1.2 U
SW8260	Bromochloromethane	ug/L	0.31 U		0.31 U	
SW8260	Bromodichloromethane	ug/L	0.24 U	0.96 U	0.24 U	0.96 U
SW8260	Bromoform	ug/L	0.24 U	1.4 U	0.24 U	1.4 U
SW8260	Bromomethane	ug/L	0.33 U	3.2 U	0.33 U	3.2 U
SW8260	Carbon Disulfide	ug/L	0.13 U	1.4 U	0.13 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	0.14 U	2.1 U	0.14 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.28 U	0.81 U	0.28 U	0.81 U
SW8260	Chloroethane	ug/L	0.38 U	2.6 U	0.38 U	2.6 U
SW8260	Chloroform	ug/L	0.15 U	1.6 U	0.15 U	1.6 U
SW8260	Chloromethane	ug/L	0.18 U	1.5 U	0.18 U	1.5 U
SW8260	Cyclohexane	ug/L	0.18 U	1.6 U	0.18 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.2 U	0.49 U	0.2 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	0.24 U	1.8 U	0.24 U	1.8 U
SW8260	Ethylbenzene	ug/L	0.14 U	1.4 U	0.14 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.25 U	1.3 U	0.25 U	1.3 U
SW8260	Methyl Acetate	ug/L	0.87 U	1.6 U	0.87 U	1.6 U
SW8260	Methylcyclohexane	ug/L	0.2 U	1.8 U	0.2 U	1.8 U
SW8260	Methylene Chloride	ug/L	0.26 U	6.4 JB	0.26 U	5.6 JB
SW8260	Styrene	ug/L	0.22 U	1 U	0.22 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.17 U	0.6 U	0.17 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	0.14 U	2.3 U	0.14 U	2.3 U
SW8260	Toluene	ug/L	0.18 U	1.1 U	0.18 U	1.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/L	0.28 U	1.9 U	0.28 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	0.15 U	1.9 U	0.15 U	1.9 U
SW8260	Vinyl chloride	ug/L	0.19 U	2.1 U	0.19 U	2.1 U
SW8260	Xylenes, Total	ug/L	0.21 U		0.21 U	
SW8260	cis-1,2-Dichloroethene	ug/L	0.44 U	1.2 U	0.44 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.13 U	0.96 U	0.13 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L		2.1 U		2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L		1.3 U		1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 U	1.5 U	0.4 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.22 U	0.87 U	0.22 U	0.87 U

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds			
SW8260	1,1,1-Trichloroethane	ug/L	0.6 J	1.6 U
SW8260	1,1,2,2-Tetrachloroethane	ug/L	0.22 U	1.2 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	0.22 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/L	0.17 U	0.95 U
SW8260	1,1-Dichloroethane	ug/L	0.15 U	1.4 U
SW8260	1,1-Dichloroethene	ug/L	0.42 U	2 U
SW8260	1,2,3-Trichlorobenzene	ug/L	0.16 U	
SW8260	1,2,4-Trichlorobenzene	ug/L	0.14 U	1.7 U
SW8260	1,2-Dibromo-3-chloropropane	ug/L	0.28 U	2.6 U
SW8260	1,2-Dibromoethane (EDB)	ug/L	0.14 U	1.2 U
SW8260	1,2-Dichlorobenzene	ug/L	0.17 U	1.2 U
SW8260	1,2-Dichloroethane	ug/L	0.15 U	0.95 U
SW8260	1,2-Dichloropropane	ug/L	0.18 U	0.65 U
SW8260	1,3-Dichlorobenzene	ug/L	0.21 U	0.97 U
SW8260	1,4-Dichlorobenzene	ug/L	0.12 U	1 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/L	1.2 U	4.2 U
SW8260	2-Hexanone	ug/L	0.83 U	2.5 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1.4 U	2 U
SW8260	Acetone	ug/L	1.1 U	2.6 UJ
SW8260	Benzene	ug/L	0.11 U	1.2 U
SW8260	Bromochloromethane	ug/L	0.31 U	
SW8260	Bromodichloromethane	ug/L	0.24 U	0.96 U
SW8260	Bromoform	ug/L	0.24 U	1.4 U
SW8260	Bromomethane	ug/L	0.33 U	3.2 U
SW8260	Carbon Disulfide	ug/L	0.13 U	1.4 U
SW8260	Carbon tetrachloride	ug/L	0.14 U	2.1 U
SW8260	Chlorobenzene	ug/L	0.28 U	0.81 U
SW8260	Chloroethane	ug/L	0.38 U	2.6 U
SW8260	Chloroform	ug/L	0.15 U	1.6 U
SW8260	Chloromethane	ug/L	0.18 U	1.5 U
SW8260	Cyclohexane	ug/L	0.18 U	1.6 U
SW8260	Dibromochloromethane	ug/L	0.2 U	0.49 U
SW8260	Dichlorodifluoromethane	ug/L	0.24 U	1.8 U
SW8260	Ethylbenzene	ug/L	0.14 U	1.4 U
SW8260	Isopropylbenzene (Cumene)	ug/L	0.25 U	1.3 U
SW8260	Methyl Acetate	ug/L	0.87 U	1.6 U
SW8260	Methylcyclohexane	ug/L	0.2 U	1.8 U
SW8260	Methylene Chloride	ug/L	0.26 U	6.2 JB
SW8260	Styrene	ug/L	0.22 U	1 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/L	0.17 U	0.6 U
SW8260	Tetrachloroethene (PCE)	ug/L	0.14 U	2.3 U
SW8260	Toluene	ug/L	0.18 U	1.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/L	0.28 U	1.9 U
SW8260	Trichlorofluoromethane	ug/L	0.15 U	1.9 U
SW8260	Vinyl chloride	ug/L	0.19 U	2.1 U
SW8260	Xylenes, Total	ug/L	0.21 U	
SW8260	cis-1,2-Dichloroethene	ug/L	0.44 U	1.2 U
SW8260	cis-1,3-Dichloropropene	ug/L	0.13 U	0.96 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/L		2.1 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/L		1.3 U
SW8260	trans-1,2-Dichloroethene	ug/L	0.4 U	1.5 U
SW8260	trans-1,3-Dichloropropene	ug/L	0.22 U	0.87 U

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds					
SW8270	1,2,4-Trichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	1,2-Dichlorobenzene	ug/L	1.1 U		1 U	
SW8270	1,2-Diphenylhydrazine	ug/L	1.1 U		1 U	
SW8270	1,3-Dichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	1,4-Dichlorobenzene	ug/L	1.1 UJ		1 U	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L		0.78 U		0.74 U
SW8270	2,4,5-Trichlorophenol	ug/L	1.1 UJ	1.1 U	1 UJ	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	1.1 UJ	0.92 U	1 UJ	0.87 U
SW8270	2,4-Dichlorophenol	ug/L	1.1 UJ	1.8 U	1 UJ	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1.1 UJ	1.7 U	1 UJ	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	11 UJ	7.3 U	10 UJ	6.9 U
SW8270	2,4-Dinitrotoluene	ug/L	1.1 U	1.3 UJ	1 U	1.3 U
SW8270	2,6-Dinitrotoluene	ug/L	1.1 U	0.95 UJ	1 U	0.89 U
SW8270	2-Chloronaphthalene	ug/L	1.1 U	0.52 UJ	1 U	0.49 U
SW8270	2-Chlorophenol	ug/L	1.1 UJ	0.82 U	1 UJ	0.76 U
SW8270	2-Methylnaphthalene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	2-Methylphenol (o-Cresol)	ug/L	1.1 UJ	1.6 U	1 UJ	1.5 U
SW8270	2-Nitroaniline	ug/L	1.1 U	0.84 UJ	1 U	0.79 U
SW8270	2-Nitrophenol	ug/L	1.1 UJ	2.2 U	1 UJ	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	1.1 U	7 UJ	1 U	6.6 U
SW8270	3-Methylphenol	ug/L	1.1 UJ		1 UJ	
SW8270	3-Nitroaniline	ug/L	1.1 U	UR	1 U	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1.1 UJ	4.8 U	1 UJ	4.4 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	4-Chloro-3-methylphenol	ug/L	1.1 UJ	2 U	1 UJ	1.9 U
SW8270	4-Chloroaniline	ug/L	1.1 U	1.9 UJ	1 U	1.8 U
SW8270	4-Chlorophenyl phenyl ether	ug/L	1.1 U	1 UJ	1 U	0.97 U
SW8270	4-Methylphenol (p-Cresol)	ug/L	1.1 UJ	3 U	1 UJ	2.8 U
SW8270	4-Nitroaniline	ug/L	1.1 U	2.1 UJ	1 U	2 UJ
SW8270	4-Nitrophenol	ug/L	5.4 UJ	3.9 U	5 UJ	3.6 U
SW8270	Acenaphthene	ug/L	1.1 U	0.6 UJ	1 U	0.56 U
SW8270	Acenaphthylene	ug/L	1.1 U	0.56 UJ	1 U	0.53 U
SW8270	Acetophenone	ug/L		0.9 UJ		0.85 U
SW8270	Anthracene	ug/L	1.1 U	1.1 UJ	1 U	1 U
SW8270	Atrazine	ug/L		1.6 UJ		1.5 U
SW8270	Benzaldehyde	ug/L		3 UJ		2.8 U
SW8270	Benzo(a)anthracene	ug/L	1.1 U	0.96 UJ	1 U	0.9 U
SW8270	Benzo(a)pyrene	ug/L	1.1 U	0.61 UJ	1 U	0.57 U
SW8270	Benzo(b)fluoranthene	ug/L	1.1 U	0.66 UJ	1 U	0.62 U
SW8270	Benzo(g,h,i)perylene	ug/L	1.1 U	1.5 UJ	1 U	1.4 U
SW8270	Benzo(k)fluoranthene	ug/L	1.1 U	1 UJ	1 U	0.99 U
SW8270	Benzoic acid	ug/L	UR		1 UJ	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/L	1.1 U		1 UJ	
SW8270	Benzyl butyl phthalate	ug/L	1.1 U	0.97 UJ	1 U	0.91 U
SW8270	Biphenyl (Diphenyl)	ug/L		0.36 UJ		0.34 U
SW8270	Caprolactam	ug/L		1.6 UJ		1.6 U
SW8270	Carbazole	ug/L	1.1 U	1.4 UJ	1 U	1.3 UJ
SW8270	Chrysene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	Di-n-butylphthalate	ug/L	1.1 U	1.9 UJ	1 U	1.8 U
SW8270	Di-n-octylphthalate	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	Dibenz(a,h)anthracene	ug/L	1.1 U	1.5 UJ	1 U	1.4 U
SW8270	Dibenzofuran	ug/L	1.1 U	0.8 UJ	1 U	0.76 U
SW8270	Diethylphthalate	ug/L	1.1 U	3.7 UJ	1 U	3.4 U
SW8270	Dimethylphthalate	ug/L	1.1 U	3.4 UJ	1 U	3.2 U
SW8270	Fluoranthene	ug/L	1.1 U	1.4 UJ	1 U	1.3 U
SW8270	Fluorene	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	Hexachlorobenzene	ug/L	1.1 U	1.2 UJ	1 U	1.2 U
SW8270	Hexachlorobutadiene	ug/L	1.1 UJ	0.54 UJ	1 U	0.51 U
SW8270	Hexachlorocyclopentadiene	ug/L	1.1 UJ	4.6 UJ	1 U	4.3 UJ
SW8270	Hexachloroethane	ug/L	1.1 UJ	0.47 UJ	1 U	0.44 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1.1 U	1.3 UJ	1 U	1.2 U
SW8270	Isophorone	ug/L	1.1 U	0.61 UJ	1 U	0.57 U
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.87 U	0.79 UJ	0.81 U	0.74 U
SW8270	N-Nitrosodimethylamine	ug/L	1.1 UJ		1 U	
SW8270	N-Nitrosodiphenylamine	ug/L	1.1 U	0.99 UJ	1 U	0.93 U
SW8270	Naphthalene	ug/L	1.1 U	0.48 UJ	1 U	0.45 U
SW8270	Nitrobenzene	ug/L	1.1 U	0.56 UJ	1 U	0.53 U
SW8270	Pentachlorophenol	ug/L	1.1 UJ	2.9 U	1 UJ	2.8 U
SW8270	Phenanthrene	ug/L	1.1 U	1.6 UJ	1 U	1.5 U
SW8270	Phenol	ug/L	1.1 UJ	1.3 U	1 UJ	1.2 U
SW8270	Pyrene	ug/L	1.1 U	0.67 UJ	1 U	0.63 U
SW8270	bis(2-Chloroethoxy)methane	ug/L	1.1 U	0.59 UJ	1 U	0.55 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1.1 U	0.86 UJ	1 U	0.81 U
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1.1 U	0.78 UJ	1 U	0.74 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	2.2 JB	7.4 JB	2 JB	6.5 JB

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds			
SW8270	1,2,4-Trichlorobenzene	ug/L	1 U	
SW8270	1,2-Dichlorobenzene	ug/L	1 U	
SW8270	1,2-Diphenylhydrazine	ug/L	1 U	
SW8270	1,3-Dichlorobenzene	ug/L	1 U	
SW8270	1,4-Dichlorobenzene	ug/L	1 U	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/L		0.75 U
SW8270	2,4,5-Trichlorophenol	ug/L	1 UJ	1 U
SW8270	2,4,6-Trichlorophenol	ug/L	1 UJ	0.88 U
SW8270	2,4-Dichlorophenol	ug/L	1 UJ	1.7 U
SW8270	2,4-Dimethylphenol	ug/L	1 UJ	1.6 U
SW8270	2,4-Dinitrophenol	ug/L	10 UJ	7 U
SW8270	2,4-Dinitrotoluene	ug/L	1 U	1.3 UJ
SW8270	2,6-Dinitrotoluene	ug/L	1 U	0.91 UJ
SW8270	2-Chloronaphthalene	ug/L	1 U	0.5 UJ
SW8270	2-Chlorophenol	ug/L	1 UJ	0.78 U
SW8270	2-Methylnaphthalene	ug/L	1 U	0.75 UJ
SW8270	2-Methylphenol (o-Cresol)	ug/L	1 UJ	1.5 U
SW8270	2-Nitroaniline	ug/L	1 U	0.8 UJ
SW8270	2-Nitrophenol	ug/L	1 UJ	2.1 U
SW8270	3,3'-Dichlorobenzidine	ug/L	1 U	6.7 UJ
SW8270	3-Methylphenol	ug/L	1 UJ	
SW8270	3-Nitroaniline	ug/L	1 U	UR
SW8270	4,6-Dinitro-2-methylphenol	ug/L	1 UJ	4.6 U
SW8270	4-Bromophenyl phenyl ether	ug/L	1 U	1.4 UJ
SW8270	4-Chloro-3-methylphenol	ug/L	1 UJ	1.9 U
SW8270	4-Chloroaniline	ug/L	1 U	1.8 UJ
SW8270	4-Chlorophenyl phenyl ether	ug/L	1 U	0.99 UJ
SW8270	4-Methylphenol (p-Cresol)	ug/L	1 UJ	2.8 U
SW8270	4-Nitroaniline	ug/L	1 U	2 UJ
SW8270	4-Nitrophenol	ug/L	5.2 UJ	3.7 U
SW8270	Acenaphthene	ug/L	1 U	0.57 UJ
SW8270	Acenaphthylene	ug/L	1 U	0.54 UJ
SW8270	Acetophenone	ug/L		0.86 UJ
SW8270	Anthracene	ug/L	1 U	1 UJ
SW8270	Atrazine	ug/L		1.5 UJ
SW8270	Benzaldehyde	ug/L		2.8 UJ
SW8270	Benzo(a)anthracene	ug/L	1 U	0.92 UJ
SW8270	Benzo(a)pyrene	ug/L	1 U	0.58 UJ
SW8270	Benzo(b)fluoranthene	ug/L	1 U	0.64 UJ
SW8270	Benzo(g,h,i)perylene	ug/L	1 U	1.4 UJ
SW8270	Benzo(k)fluoranthene	ug/L	1 U	1 UJ
SW8270	Benzoic acid	ug/L	1 UJ	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/L	1 U	
SW8270	Benzyl butyl phthalate	ug/L	1 U	0.93 UJ
SW8270	Biphenyl (Diphenyl)	ug/L		0.34 UJ
SW8270	Caprolactam	ug/L		1.6 U
SW8270	Carbazole	ug/L	1 U	1.4 UJ
SW8270	Chrysene	ug/L	1 U	0.75 UJ
SW8270	Di-n-butylphthalate	ug/L	1 U	1.8 UJ
SW8270	Di-n-octylphthalate	ug/L	1 U	1.4 UJ
SW8270	Dibenz(a,h)anthracene	ug/L	1 U	1.4 UJ
SW8270	Dibenzofuran	ug/L	1 U	0.77 UJ
SW8270	Diethylphthalate	ug/L	1 U	3.5 UJ
SW8270	Dimethylphthalate	ug/L	1 U	3.2 UJ
SW8270	Fluoranthene	ug/L	1 U	1.4 UJ
SW8270	Fluorene	ug/L	1 U	0.75 UJ
SW8270	Hexachlorobenzene	ug/L	1 U	1.2 UJ
SW8270	Hexachlorobutadiene	ug/L	1 U	0.52 UJ
SW8270	Hexachlorocyclopentadiene	ug/L	1 U	4.4 UJ
SW8270	Hexachloroethane	ug/L	1 U	0.45 UJ
SW8270	Indeno(1,2,3-cd)pyrene	ug/L	1 U	1.2 UJ
SW8270	Isophorone	ug/L	1 U	0.58 UJ
SW8270	N-Nitroso-di-n-propylamine	ug/L	0.83 U	0.76 UJ
SW8270	N-Nitrosodimethylamine	ug/L	1 U	
SW8270	N-Nitrosodiphenylamine	ug/L	1 U	0.95 UJ
SW8270	Naphthalene	ug/L	1 U	0.46 UJ
SW8270	Nitrobenzene	ug/L	1 U	0.54 UJ
SW8270	Pentachlorophenol	ug/L	1 UJ	2.8 U
SW8270	Phenanthrene	ug/L	1 U	1.6 UJ
SW8270	Phenol	ug/L	1 UJ	1.3 U
SW8270	Pyrene	ug/L	1 U	0.65 UJ
SW8270	bis(2-Chloroethoxy)methane	ug/L	1 U	0.56 UJ
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/L	1 U	0.82 UJ
SW8270	bis(2-Chloroisopropyl)ether	ug/L	1 U	0.75 UJ
SW8270	bis(2-Ethylhexyl)phthalate	ug/L	2 JB	4.3 JB

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds					
SW8270 PAH	1-Methylnaphthalene	ug/L	0.011 UJ		0.01 U	
SW8270 PAH	2-Methylnaphthalene	ug/L	0.017 UJ		0.016 U	
SW8270 PAH	Acenaphthene	ug/L	0.011 UJ	0.031 U	0.01 U	0.03 U
SW8270 PAH	Acenaphthylene	ug/L	0.009 UJ	0.031 U	0.0087 U	0.03 U
SW8270 PAH	Anthracene	ug/L	0.01 UJ	0.031 U	0.0097 U	0.03 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.011 UJ	0.04 U	0.011 U	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.01 UJ	0.021 U	0.0097 U	0.02 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.017 UJ	0.01 U	0.016 U	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.014 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.014 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Chrysene	ug/L	0.0096 UJ	0.021 U	0.0092 U	0.02 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.013 UJ	0.01 U	0.012 U	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.012 UJ	0.052 U	0.012 U	0.051 U
SW8270 PAH	Fluorene	ug/L	0.013 UJ	0.031 U	0.013 U	0.03 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.019 UJ	0.03 U	0.018 U	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.029 JB	0.031 U	0.044 J	0.03 U
SW8270 PAH	Phenanthrene	ug/L	0.015 UJ	0.042 U	0.014 U	0.04 U
SW8270 PAH	Pyrene	ug/L	0.011 UJ	0.031 U	0.011 U	0.03 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds			
SW8270 PAH	1-Methylnaphthalene	ug/L	0.01 UJ	
SW8270 PAH	2-Methylnaphthalene	ug/L	0.016 UJ	
SW8270 PAH	Acenaphthene	ug/L	0.01 UJ	0.031 U
SW8270 PAH	Acenaphthylene	ug/L	0.0088 UJ	0.031 U
SW8270 PAH	Anthracene	ug/L	0.0098 UJ	0.031 U
SW8270 PAH	Benzo(a)anthracene	ug/L	0.011 UJ	0.04 U
SW8270 PAH	Benzo(a)pyrene	ug/L	0.0098 UJ	0.021 U
SW8270 PAH	Benzo(b)fluoranthene	ug/L	0.016 UJ	0.01 U
SW8270 PAH	Benzo(g,h,i)perylene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Benzo(k)fluoranthene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Chrysene	ug/L	0.0093 UJ	0.021 U
SW8270 PAH	Dibenz(a,h)anthracene	ug/L	0.012 UJ	0.01 U
SW8270 PAH	Fluoranthene	ug/L	0.012 UJ	0.052 U
SW8270 PAH	Fluorene	ug/L	0.013 UJ	0.031 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/L	0.019 UJ	0.03 U
SW8270 PAH	Naphthalene	ug/L	0.034 J	0.031 U
SW8270 PAH	Phenanthrene	ug/L	0.014 UJ	0.042 U
SW8270 PAH	Pyrene	ug/L	0.011 UJ	0.031 U

J - Estimated Value, U - Non-detection, . . .ejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 U	0.08 U	0.13 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 U	0.29 U	0.13 U	0.28 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 U	0.46 U	0.13 U	0.44 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 U	0.1 U	0.13 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 U	0.07 U	0.13 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 U	0.24 U	0.13 U	0.23 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 U	0.08 U	0.13 U	0.07 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)			
SW8082	PCB-1016 (Aroclor 1016)	ug/L	0.13 U	0.07 U
SW8082	PCB-1221 (Aroclor 1221)	ug/L	0.13 U	0.27 U
SW8082	PCB-1232 (Aroclor 1232)	ug/L	0.13 U	0.43 U
SW8082	PCB-1242 (Aroclor 1242)	ug/L	0.13 U	0.09 U
SW8082	PCB-1248 (Aroclor 1248)	ug/L	0.13 U	0.06 U
SW8082	PCB-1254 (Aroclor 1254)	ug/L	0.13 U	0.22 U
SW8082	PCB-1260 (Aroclor 1260)	ug/L	0.13 U	0.07 U

Explosive Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/L	0.096 U	0.054 U	0.086 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.096 U	0.036 U	0.086 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.096 U	0.064 U	0.086 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 U	0.028 U	0.11 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 U	0.052 U	0.11 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 U	0.056 U	0.13 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.096 U	0.098 U	0.086 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U	0.13 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.096 U	0.044 U	0.086 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.096 U	0.1 U	0.086 U	0.1 U
SW8330	HMX	ug/L	0.096 U	0.027 U	0.086 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.1 U	0.022 U	0.095 U	0.022 U
SW8330	RDX	ug/L	0.096 U	0.1 U	0.086 U	0.1 U
SW8330	Tetryl	ug/L	0.096 U	0.045 U	0.086 U	0.045 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives			
SW8330	1,3,5-Trinitrobenzene	ug/L	0.095 U	0.054 U
SW8330	1,3-Dinitrobenzene	ug/L	0.095 U	0.036 U
SW8330	2,4,6-Trinitrotoluene	ug/L	0.095 U	0.064 U
SW8330	2,4-Dinitrotoluene	ug/L	0.12 U	0.028 U
SW8330	2,6-Dinitrotoluene	ug/L	0.12 U	0.052 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/L	0.14 U	0.056 U
SW8330	2-Nitrotoluene	ug/L	0.095 U	0.098 U
SW8330	3-Nitrotoluene	ug/L	0.14 U	0.14 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/L	0.095 U	0.044 U
SW8330	4-Nitrotoluene	ug/L	0.095 U	0.1 U
SW8330	HMX	ug/L	0.095 U	0.027 U
SW8330	Nitrobenzene	ug/L	0.1 U	0.022 U
SW8330	RDX	ug/L	0.095 U	0.1 U
SW8330	Tetryl	ug/L	0.095 U	0.045 U

J - Estimated Value, U - Non-detection, ı ,ɔcted, B - Found in Blank

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals					
SW6010	Aluminum	ug/L	146 J		100 U	
SW6020	Aluminum	ug/L		483		27.6
SW6010	Antimony	ug/L	5 U		5 U	
SW6020	Antimony	ug/L		0.13 U		0.13 U
SW6010	Arsenic	ug/L	3 U		3 U	
SW6020	Arsenic	ug/L		1 U		1 U
SW6010	Barium	ug/L	34.1 J		35.2 J	
SW6020	Barium	ug/L		36.3		33
SW6010	Beryllium	ug/L	1 U		1 U	
SW6020	Beryllium	ug/L		0.028 U		0.028 U
SW6010	Cadmium	ug/L	1 U		1 U	
SW6020	Cadmium	ug/L		0.17 U		0.17 U
SW6010	Calcium	ug/L	119000		106000	
SW6020	Calcium	ug/L		115000		103000
SW6010	Chromium	ug/L	2 U		2 U	
SW6020	Chromium	ug/L		1.3 U		1.3 U
SW6010	Cobalt	ug/L	3 U		3 U	
SW6020	Cobalt	ug/L		0.43		0.18
SW6010	Copper	ug/L	4 U		4 U	
SW6020	Copper	ug/L		2.1 B		1.4 JB
SW6010	Iron	ug/L	307		102	
SW6020	Iron	ug/L		971		284
SW6010	Lead	ug/L	1.5 U		1.5 U	
SW6020	Lead	ug/L		2.5		0.31 J
SW6010	Magnesium	ug/L	24700		23200	
SW6020	Magnesium	ug/L		24800		23900
SW6010	Manganese	ug/L	31.6		9.1 J	
SW6020	Manganese	ug/L		40.8		60.5
SW7470	Mercury	ug/L	0.08 U	0.062 U	0.08 U	0.062 U
SW6010	Nickel	ug/L	3 U		3 U	
SW6020	Nickel	ug/L		1.8		1.3
SW6010	Potassium	ug/L	1780 J		1960 J	
SW6020	Potassium	ug/L		1670		2220
SW6010	Selenium	ug/L	3 U		3 U	
SW6020	Selenium	ug/L		0.75 U		0.75 U
SW6010	Silver	ug/L	1 U		1 U	
SW6020	Silver	ug/L		0.029 U		0.10 J
SW6010	Sodium	ug/L	4350		3780	
SW6020	Sodium	ug/L		3880		3760
SW6010	Thallium	ug/L	3 U		3 U	
SW6020	Thallium	ug/L		0.074 U		0.12 JB
SW6010	Vanadium	ug/L	3 U		3 U	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Surface Waters

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

		Location	AA2-SWSD-10	AA2-SWSD-10	AA2-SWSD-21	AA2-SWSD-21
		Samp. Num.	PBOW-06-SW-AA2-SW10-A	PBOW.06.SW.AA2.SW10.B	PBOW-06-SW-AA2-SW21-A	PBOW.06.SW.AA2.SW21.B
		Date	05/21/2006	05/21/2006	05/20/2006	05/20/2006
		Depth	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.
Method	Analyte	Units	Primary ELAB Result	Confirmation GPL QA Result	Primary ELAB Result	Confirmation GPL QA Result
SW6020	Vanadium	ug/L		2.5 U		2.5 U
SW6010	Zinc	ug/L	5 U		5 U	
SW6020	Zinc	ug/L		15.3 B		9.0 B

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals			
SW6010	Aluminum	ug/L	100 U	
SW6020	Aluminum	ug/L		47.7
SW6010	Antimony	ug/L	5 U	
SW6020	Antimony	ug/L		0.13 U
SW6010	Arsenic	ug/L	3 U	
SW6020	Arsenic	ug/L		1 U
SW6010	Barium	ug/L	33.4 J	
SW6020	Barium	ug/L		34.8
SW6010	Beryllium	ug/L	1 U	
SW6020	Beryllium	ug/L		0.028 U
SW6010	Cadmium	ug/L	1 U	
SW6020	Cadmium	ug/L		0.17 U
SW6010	Calcium	ug/L	94900	
SW6020	Calcium	ug/L		92900
SW6010	Chromium	ug/L	2 U	
SW6020	Chromium	ug/L		1.3 U
SW6010	Cobalt	ug/L	3 U	
SW6020	Cobalt	ug/L		0.098
SW6010	Copper	ug/L	4 U	
SW6020	Copper	ug/L		1.6 JB
SW6010	Iron	ug/L	185	
SW6020	Iron	ug/L		195
SW6010	Lead	ug/L	1.5 U	
SW6020	Lead	ug/L		1.6
SW6010	Magnesium	ug/L	21000	
SW6020	Magnesium	ug/L		22500
SW6010	Manganese	ug/L	29.9	
SW6020	Manganese	ug/L		29.5
SW7470	Mercury	ug/L	0.08 U	0.062 U
SW6010	Nickel	ug/L	3 U	
SW6020	Nickel	ug/L		0.91
SW6010	Potassium	ug/L	500 U	
SW6020	Potassium	ug/L		406
SW6010	Selenium	ug/L	3 U	
SW6020	Selenium	ug/L		0.75 U
SW6010	Silver	ug/L	1 U	
SW6020	Silver	ug/L		0.047 JB
SW6010	Sodium	ug/L	3150	
SW6020	Sodium	ug/L		3060
SW6010	Thallium	ug/L	3 U	
SW6020	Thallium	ug/L		0.3

Metals in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW6020	Vanadium	ug/L		2.5 U
SW6010	Zinc	ug/L	5 U	
SW6020	Zinc	ug/L		11

Cyanide in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-10 PBOW-06-SW-AA2-SW10-A 05/21/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-10 PBOW.06.SW.AA2.SW10.B 05/21/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-21 PBOW-06-SW-AA2-SW21-A 05/20/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-21 PBOW.06.SW.AA2.SW21.B 05/20/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry					
SW9012	Cyanide	ug/L	5 U		5 U	
SW9014	Cyanide	ug/L		5 U		5 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Surface Waters
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-07 PBOW-06-SW-AA3-SW07-A 05/19/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-07 PBOW.06.SW.AA3.SW07.B 05/19/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry			
SW9012	Cyanide	ug/L	5 U	
SW9014	Cyanide	ug/L		5 U

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds					
SW8260	1,1,1-Trichloroethane	ug/Kg	1.4 U	1.9 U	1.3 U	1.4 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	0.68 U	2.5 U	0.6 U	1.9 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	0.87 U	2 U	0.77 U	1.4 U
SW8260	1,1,2-Trichloroethane	ug/Kg	0.55 U	2.6 U	0.49 U	1.9 U
SW8260	1,1-Dichloroethane	ug/Kg	0.85 U	2 U	0.76 U	1.5 U
SW8260	1,1-Dichloroethene	ug/Kg	1.9 U	1.8 U	1.7 U	1.4 U
SW8260	1,2,3-Trichlorobenzene	ug/Kg	0.66 U		0.59 U	
SW8260	1,2,4-Trichlorobenzene	ug/Kg	0.28 U	4.7 U	0.25 U	3.5 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	1.9 U	2.6 U	1.7 U	1.9 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	0.68 U	2.3 U	0.6 U	1.7 U
SW8260	1,2-Dichlorobenzene	ug/Kg	0.58 U	2.3 U	0.52 U	1.7 U
SW8260	1,2-Dichloroethane	ug/Kg	0.73 U	2 U	0.64 U	1.4 U
SW8260	1,2-Dichloropropane	ug/Kg	0.73 U	2 U	0.64 U	1.5 U
SW8260	1,3-Dichlorobenzene	ug/Kg	1.3 U	2.8 U	1.2 U	2 U
SW8260	1,4-Dichlorobenzene	ug/Kg	0.87 U	2.4 U	0.77 U	1.8 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	9.7 J	4.8 U	6.4 J	3.6 U
SW8260	2-Hexanone	ug/Kg	3.6 U	3 U	3.2 U	2.2 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.92 U	2.8 U	0.81 U	2 U
SW8260	Acetone	ug/Kg	75 J	5.6 UJ	54 J	4.2 UJ
SW8260	Benzene	ug/Kg	0.74 U	2.3 U	0.66 U	1.7 U
SW8260	Bromochloromethane	ug/Kg	0.66 U		0.59 U	
SW8260	Bromodichloromethane	ug/Kg	0.47 U	1.8 U	0.42 U	1.3 U
SW8260	Bromoform	ug/Kg	1.6 U	2 U	1.4 U	1.5 U
SW8260	Bromomethane	ug/Kg	1.1 U	2.2 U	1 U	1.6 U
SW8260	Carbon Disulfide	ug/Kg	2.1 J	1.2 U	1.8 U	0.92 U
SW8260	Carbon tetrachloride	ug/Kg	1.4 U	1.6 U	1.2 U	1.2 U
SW8260	Chlorobenzene	ug/Kg	3.9 U	2.2 U	3.5 U	1.7 U
SW8260	Chloroethane	ug/Kg	1.7 U	2.1 U	1.5 U	1.6 U
SW8260	Chloroform	ug/Kg	0.87 U	2.1 U	0.77 U	1.5 U
SW8260	Chloromethane	ug/Kg	0.82 U	2 U	0.73 U	1.5 U
SW8260	Cyclohexane	ug/Kg	0.85 U	2 U	1 J	1.5 U
SW8260	Dibromochloromethane	ug/Kg	0.54 U	1.9 U	0.48 U	1.4 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.7 U	1.8 U	1.5 U	1.3 U
SW8260	Ethylbenzene	ug/Kg	1.2 U	2.6 U	1 U	1.9 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	1.4 U	2.7 U	1.2 U	2 U
SW8260	Methyl Acetate	ug/Kg	2.5 U	5.6 U	2.2 U	4.1 U
SW8260	Methylcyclohexane	ug/Kg	0.47 U	2 U	0.42 U	1.5 U
SW8260	Methylene Chloride	ug/Kg	0.98 U	5.3 J	0.87 U	1.7 U
SW8260	Styrene	ug/Kg	0.55 U	2.7 U	0.49 U	2 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.5 U	2.2 U	0.45 U	1.6 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	1.5 U	2.7 U	1.4 U	2 U
SW8260	Toluene	ug/Kg	1.4 U	2.3 U	1.2 U	1.7 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

		Location	AA2-SWSD-07	AA2-SWSD-07	AA2-SWSD-18	AA2-SWSD-18
		Samp. Num.	PBOW-06-SD-AA2-SD07-A	PBOW.06.SD.AA2.SD07.B	PBOW-06-SD-AA2-SD18-A	PBOW.06.SD.AA2.SD18.B
		Date	06/12/2006	06/12/2006	06/12/2006	06/12/2006
		Depth	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.	0.0-0.0 ft.
Method	Analyte	Units	Primary ELAB Result	Confirmation GPL QA Result	Primary ELAB Result	Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/Kg	1.3 U	2.2 U	1.2 U	1.7 U
SW8260	Trichlorofluoromethane	ug/Kg	1.5 U	1.9 U	1.3 U	1.4 U
SW8260	Vinyl chloride	ug/Kg	1.7 U	2 U	1.5 U	1.4 U
SW8260	Xylenes, Total	ug/Kg	1.1 U		0.98 U	
SW8260	cis-1,2-Dichloroethene	ug/Kg	1.9 U	2 U	1.7 U	1.5 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	0.79 U	1.6 U	0.7 U	1.2 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg		4.9 U		3.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg		1.2 U		0.91 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	1.7 U	2 U	1.5 U	1.4 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	0.5 U	2.3 U	0.45 U	1.7 U

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Volatile Organic Compounds			
SW8260	1,1,1-Trichloroethane	ug/Kg	1.4 U	1.7 U
SW8260	1,1,2,2-Tetrachloroethane	ug/Kg	0.67 U	2.4 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	0.86 U	1.8 U
SW8260	1,1,2-Trichloroethane	ug/Kg	0.54 U	2.4 U
SW8260	1,1-Dichloroethane	ug/Kg	0.84 U	1.9 U
SW8260	1,1-Dichloroethene	ug/Kg	1.9 U	1.7 U
SW8260	1,2,3-Trichlorobenzene	ug/Kg	0.65 U	
SW8260	1,2,4-Trichlorobenzene	ug/Kg	0.28 U	4.4 U
SW8260	1,2-Dibromo-3-chloropropane	ug/Kg	1.9 U	2.4 U
SW8260	1,2-Dibromoethane (EDB)	ug/Kg	0.67 U	2.1 U
SW8260	1,2-Dichlorobenzene	ug/Kg	0.58 U	2.1 U
SW8260	1,2-Dichloroethane	ug/Kg	0.72 U	1.8 U
SW8260	1,2-Dichloropropane	ug/Kg	0.72 U	1.9 U
SW8260	1,3-Dichlorobenzene	ug/Kg	1.3 U	2.6 U
SW8260	1,4-Dichlorobenzene	ug/Kg	0.86 U	2.2 U
SW8260	2-Butanone (Methyl ethyl ketone)	ug/Kg	2.2 U	4.5 U
SW8260	2-Hexanone	ug/Kg	3.6 U	2.8 U
SW8260	4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/Kg	0.9 U	2.6 U
SW8260	Acetone	ug/Kg	14 J	5.2 UJ
SW8260	Benzene	ug/Kg	2.4 J	2.1 U
SW8260	Bromochloromethane	ug/Kg	0.65 U	
SW8260	Bromodichloromethane	ug/Kg	0.47 U	1.7 U
SW8260	Bromoform	ug/Kg	1.6 U	1.9 U
SW8260	Bromomethane	ug/Kg	1.1 U	2 U
SW8260	Carbon Disulfide	ug/Kg	2 U	1.2 U
SW8260	Carbon tetrachloride	ug/Kg	1.4 U	1.5 U
SW8260	Chlorobenzene	ug/Kg	3.9 U	2.1 U
SW8260	Chloroethane	ug/Kg	1.7 U	2 U
SW8260	Chloroform	ug/Kg	0.86 U	2 U
SW8260	Chloromethane	ug/Kg	0.81 U	1.8 U
SW8260	Cyclohexane	ug/Kg	7.8 J	1.9 U
SW8260	Dibromochloromethane	ug/Kg	0.53 U	1.8 U
SW8260	Dichlorodifluoromethane	ug/Kg	1.7 U	1.7 U
SW8260	Ethylbenzene	ug/Kg	1.2 U	2.4 U
SW8260	Isopropylbenzene (Cumene)	ug/Kg	1.4 U	2.5 U
SW8260	Methyl Acetate	ug/Kg	2.5 U	5.2 U
SW8260	Methylcyclohexane	ug/Kg	10	1.9 U
SW8260	Methylene Chloride	ug/Kg	0.97 U	2.2 U
SW8260	Styrene	ug/Kg	0.54 U	2.5 U
SW8260	Tert-Butyl Methyl Ether (MTBE)	ug/Kg	0.5 U	2 U
SW8260	Tetrachloroethene (PCE)	ug/Kg	1.5 U	2.5 U
SW8260	Toluene	ug/Kg	3.2 JB	2.1 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Volatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8260	Trichloroethene (TCE)	ug/Kg	1.3 U	2.1 U
SW8260	Trichlorofluoromethane	ug/Kg	1.5 U	1.7 U
SW8260	Vinyl chloride	ug/Kg	1.7 U	1.8 U
SW8260	Xylenes, Total	ug/Kg	1.1 U	
SW8260	cis-1,2-Dichloroethene	ug/Kg	1.9 U	1.9 U
SW8260	cis-1,3-Dichloropropene	ug/Kg	0.78 U	1.4 U
SW8260	m-Xylene (1,3-Dimethylbenzene)	ug/Kg		4.6 U
SW8260	o-Xylene (1,2-Dimethylbenzene)	ug/Kg		1.1 U
SW8260	trans-1,2-Dichloroethene	ug/Kg	1.7 U	1.8 U
SW8260	trans-1,3-Dichloropropene	ug/Kg	0.5 U	2.1 U

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds					
SW8270	1,2,4-Trichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,2-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,2-Diphenylhydrazine	ug/Kg	160 UJ		130 UJ	
SW8270	1,3-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	1,4-Dichlorobenzene	ug/Kg	160 UJ		130 UJ	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg		46 U		33 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	160 U	140 U	130 UJ	97 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	160 UJ	120 U	130 UJ	89 U
SW8270	2,4-Dichlorophenol	ug/Kg	160 UJ	82 U	130 UJ	60 U
SW8270	2,4-Dimethylphenol	ug/Kg	160 UJ	95 U	130 UJ	68 U
SW8270	2,4-Dinitrophenol	ug/Kg	160 UJ	310 U	130 UJ	220 U
SW8270	2,4-Dinitrotoluene	ug/Kg	160 UJ	56 U	560 J	300 JB
SW8270	2,6-Dinitrotoluene	ug/Kg	160 UJ	56 U	130 UJ	40 U
SW8270	2-Chloronaphthalene	ug/Kg	160 UJ	60 U	130 UJ	43 U
SW8270	2-Chlorophenol	ug/Kg	160 UJ	91 U	130 UJ	66 U
SW8270	2-Methylnaphthalene	ug/Kg	63 UJ	58 U	54 J	42 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	160 UJ	96 U	130 UJ	69 U
SW8270	2-Nitroaniline	ug/Kg	160 UJ	62 U	130 UJ	45 U
SW8270	2-Nitrophenol	ug/Kg	160 UJ	120 U	130 UJ	84 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	240 UJ	150 U	200 UJ	110 U
SW8270	3-Methylphenol	ug/Kg	160 U		130 UJ	
SW8270	3-Nitroaniline	ug/Kg	160 UJ	70 U	130 UJ	50 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	160 UJ	190 U	130 UJ	140 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	160 UJ	53 U	130 UJ	38 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	160 U	120 U	130 UJ	85 U
SW8270	4-Chloroaniline	ug/Kg	160 UJ	110 U	130 UJ	78 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	160 UJ	47 U	130 UJ	34 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	160 U	170 U	130 UJ	120 U
SW8270	4-Nitroaniline	ug/Kg	160 UJ	120 U	130 UJ	89 U
SW8270	4-Nitrophenol	ug/Kg	160 U	130 U	130 UJ	97 U
SW8270	Acenaphthene	ug/Kg	63 UJ	53 U	52 UJ	38 U
SW8270	Acenaphthylene	ug/Kg	63 UJ	47 U	52 UJ	34 U
SW8270	Acetophenone	ug/Kg		47 U		34 U
SW8270	Anthracene	ug/Kg	63 UJ	57 U	70 J	150 JB
SW8270	Atrazine	ug/Kg		130 UJ		97 UJ
SW8270	Benzaldehyde	ug/Kg		340 U		240 U
SW8270	Benzo(a)anthracene	ug/Kg	81 J	54 JB	490 J	800
SW8270	Benzo(a)pyrene	ug/Kg	63 UJ	37 U	580 J	730
SW8270	Benzo(b)fluoranthene	ug/Kg	63 UJ	30 U	620 J	940
SW8270	Benzo(g,h,i)perylene	ug/Kg	63 UJ	79 U	160 J	380 JB
SW8270	Benzo(k)fluoranthene	ug/Kg	63 UJ	27 U	570 J	430
SW8270	Benzoic acid	ug/Kg	220 J		UR	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/Kg	160 UJ		130 UJ	
SW8270	Benzyl butyl phthalate	ug/Kg	160 UJ	58 U	130 UJ	42 U
SW8270	Biphenyl (Diphenyl)	ug/Kg		58 U		42 U
SW8270	Caprolactam	ug/Kg		60 U		44 U
SW8270	Carbazole	ug/Kg	63 UJ	97 U	52 UJ	70 U
SW8270	Chrysene	ug/Kg	81 J	60 JB	530 J	630
SW8270	Di-n-butylphthalate	ug/Kg	160 UJ	120 JB	130 UJ	72 JB
SW8270	Di-n-octylphthalate	ug/Kg	160 UJ	42 U	130 UJ	30 U
SW8270	Dibenz(a,h)anthracene	ug/Kg	63 UJ	65 U	52 UJ	110 JB
SW8270	Dibenzofuran	ug/Kg	160 UJ	53 U	130 UJ	38 U
SW8270	Diethylphthalate	ug/Kg	160 UJ	200 U	130 UJ	150 U
SW8270	Dimethylphthalate	ug/Kg	160 UJ	200 U	130 UJ	140 U
SW8270	Fluoranthene	ug/Kg	120 J	78 JB	800 J	1500
SW8270	Fluorene	ug/Kg	63 UJ	40 U	52 UJ	29 U
SW8270	Hexachlorobenzene	ug/Kg	160 UJ	51 U	130 UJ	37 U
SW8270	Hexachlorobutadiene	ug/Kg	160 UJ	52 U	130 UJ	38 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	160 UJ	580 U	130 UJ	420 U
SW8270	Hexachloroethane	ug/Kg	160 UJ	57 U	130 UJ	41 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	63 UJ	68 U	230 J	370 JB
SW8270	Isophorone	ug/Kg	160 UJ	41 U	130 UJ	30 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	160 UJ	39 U	130 UJ	28 U
SW8270	N-Nitrosodimethylamine	ug/Kg	160 UJ		130 UJ	
SW8270	N-Nitrosodiphenylamine	ug/Kg	160 UJ	32 U	130 UJ	23 U
SW8270	Naphthalene	ug/Kg	63 UJ	44 U	52 UJ	32 U
SW8270	Nitrobenzene	ug/Kg	160 UJ	51 U	130 UJ	37 U
SW8270	Pentachlorophenol	ug/Kg	160 UJ	140 U	130 UJ	100 U
SW8270	Phenanthrene	ug/Kg	63 UJ	69 U	230 J	310 JB
SW8270	Phenol	ug/Kg	160 UJ	100 U	130 UJ	73 U
SW8270	Pyrene	ug/Kg	110 J	74 JB	780 J	1200
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	160 UJ	46 U	130 UJ	33 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	160 UJ	58 U	130 UJ	42 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	160 UJ	46 U	130 UJ	33 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	160 UJ	96 JB	130 UJ	150 JB

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Semivolatile Organic Compounds			
SW8270	1,2,4-Trichlorobenzene	ug/Kg	170 UJ	
SW8270	1,2-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	1,2-Diphenylhydrazine	ug/Kg	170 UJ	
SW8270	1,3-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	1,4-Dichlorobenzene	ug/Kg	170 UJ	
SW8270	2,2'-Oxybis(1-Chloro)Propane	ug/Kg		45 U
SW8270	2,4,5-Trichlorophenol	ug/Kg	170 U	130 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	170 UJ	120 U
SW8270	2,4-Dichlorophenol	ug/Kg	170 UJ	80 U
SW8270	2,4-Dimethylphenol	ug/Kg	170 UJ	93 U
SW8270	2,4-Dinitrophenol	ug/Kg	170 UJ	300 U
SW8270	2,4-Dinitrotoluene	ug/Kg	170 UJ	55 U
SW8270	2,6-Dinitrotoluene	ug/Kg	170 UJ	54 U
SW8270	2-Chloronaphthalene	ug/Kg	170 UJ	58 U
SW8270	2-Chlorophenol	ug/Kg	170 UJ	89 U
SW8270	2-Methylnaphthalene	ug/Kg	67 UJ	56 U
SW8270	2-Methylphenol (o-Cresol)	ug/Kg	170 UJ	94 U
SW8270	2-Nitroaniline	ug/Kg	170 UJ	61 U
SW8270	2-Nitrophenol	ug/Kg	170 UJ	110 U
SW8270	3,3'-Dichlorobenzidine	ug/Kg	250 UJ	140 U
SW8270	3-Methylphenol	ug/Kg	170 U	
SW8270	3-Nitroaniline	ug/Kg	170 UJ	68 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	170 UJ	190 U
SW8270	4-Bromophenyl phenyl ether	ug/Kg	170 UJ	52 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	170 U	120 U
SW8270	4-Chloroaniline	ug/Kg	170 UJ	100 U
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	170 UJ	46 U
SW8270	4-Methylphenol (p-Cresol)	ug/Kg	170 U	160 U
SW8270	4-Nitroaniline	ug/Kg	170 UJ	120 U
SW8270	4-Nitrophenol	ug/Kg	170 U	130 U
SW8270	Acenaphthene	ug/Kg	67 UJ	52 U
SW8270	Acenaphthylene	ug/Kg	67 UJ	46 U
SW8270	Acetophenone	ug/Kg		46 U
SW8270	Anthracene	ug/Kg	67 UJ	56 U
SW8270	Atrazine	ug/Kg		130 UJ
SW8270	Benzaldehyde	ug/Kg		330 U
SW8270	Benzo(a)anthracene	ug/Kg	67 UJ	34 U
SW8270	Benzo(a)pyrene	ug/Kg	67 UJ	36 U
SW8270	Benzo(b)fluoranthene	ug/Kg	67 UJ	29 U
SW8270	Benzo(g,h,i)perylene	ug/Kg	67 UJ	77 U
SW8270	Benzo(k)fluoranthene	ug/Kg	67 UJ	26 U
SW8270	Benzoic acid	ug/Kg	UR	

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Semivolatile Organic Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
SW8270	Benzyl alcohol	ug/Kg	170 UJ	
SW8270	Benzyl butyl phthalate	ug/Kg	170 UJ	56 U
SW8270	Biphenyl (Diphenyl)	ug/Kg		57 U
SW8270	Caprolactam	ug/Kg		59 U
SW8270	Carbazole	ug/Kg	67 UJ	94 U
SW8270	Chrysene	ug/Kg	67 UJ	34 U
SW8270	Di-n-butylphthalate	ug/Kg	170 UJ	270 JB
SW8270	Di-n-octylphthalate	ug/Kg	170 UJ	40 U
SW8270	Dibenz(a,h)anthracene	ug/Kg	67 UJ	64 U
SW8270	Dibenzofuran	ug/Kg	170 UJ	52 U
SW8270	Diethylphthalate	ug/Kg	170 UJ	200 U
SW8270	Dimethylphthalate	ug/Kg	170 UJ	200 U
SW8270	Fluoranthene	ug/Kg	67 UJ	72 U
SW8270	Fluorene	ug/Kg	67 UJ	39 U
SW8270	Hexachlorobenzene	ug/Kg	170 UJ	50 U
SW8270	Hexachlorobutadiene	ug/Kg	170 UJ	51 U
SW8270	Hexachlorocyclopentadiene	ug/Kg	170 UJ	570 U
SW8270	Hexachloroethane	ug/Kg	170 UJ	56 U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	67 UJ	66 U
SW8270	Isophorone	ug/Kg	170 UJ	40 U
SW8270	N-Nitroso-di-n-propylamine	ug/Kg	170 UJ	38 U
SW8270	N-Nitrosodimethylamine	ug/Kg	170 UJ	
SW8270	N-Nitrosodiphenylamine	ug/Kg	170 UJ	31 U
SW8270	Naphthalene	ug/Kg	67 UJ	43 U
SW8270	Nitrobenzene	ug/Kg	170 UJ	50 U
SW8270	Pentachlorophenol	ug/Kg	170 UJ	140 U
SW8270	Phenanthrene	ug/Kg	67 UJ	67 U
SW8270	Phenol	ug/Kg	170 UJ	98 U
SW8270	Pyrene	ug/Kg	67 UJ	63 U
SW8270	bis(2-Chloroethoxy)methane	ug/Kg	170 UJ	45 U
SW8270	bis(2-Chloroethyl)ether (2-Chloroethylether)	ug/Kg	170 UJ	56 U
SW8270	bis(2-Chloroisopropyl)ether	ug/Kg	170 UJ	45 U
SW8270	bis(2-Ethylhexyl)phthalate	ug/Kg	170 UJ	220 JB

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds					
SW8270 PAH	2-Methylnaphthalene	ug/Kg	32 UJ		60 J	
SW8270 PAH	Acenaphthene	ug/Kg	32 UJ	1.8 U	26 UJ	11
SW8270 PAH	Acenaphthylene	ug/Kg	32 UJ	24	48 J	72
SW8270 PAH	Anthracene	ug/Kg	32 UJ	22	75 J	140
SW8270 PAH	Benzo(a)anthracene	ug/Kg	74 J	74	460 J	450
SW8270 PAH	Benzo(a)pyrene	ug/Kg	32 UJ	66	550 J	400
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	94 J	98	610 J	520
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	32 UJ	45	180 J	240
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	57 J	34	490 J	210
SW8270 PAH	Chrysene	ug/Kg	81 J	73	520 J	400
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	32 UJ	16	26 UJ	3.8 U
SW8270 PAH	Fluoranthene	ug/Kg	120 J	130	790 J	680
SW8270 PAH	Fluorene	ug/Kg	32 UJ	6.5 JB	26 UJ	19
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	32 UJ	45	220 J	240
SW8270 PAH	Naphthalene	ug/Kg	32 UJ	1.2 U	26 UJ	31
SW8270 PAH	Phenanthrene	ug/Kg	32 UJ	38	240 J	280
SW8270 PAH	Pyrene	ug/Kg	120 J	100	760 J	600

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polyaromatic Hydrocarbon (PAH) Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polyaromatic Hydrocarbon (PAH) Compounds			
SW8270 PAH	2-Methylnaphthalene	ug/Kg	34 UJ	
SW8270 PAH	Acenaphthene	ug/Kg	34 UJ	1.8 U
SW8270 PAH	Acenaphthylene	ug/Kg	34 UJ	1.2 U
SW8270 PAH	Anthracene	ug/Kg	34 UJ	1.7 U
SW8270 PAH	Benzo(a)anthracene	ug/Kg	34 UJ	8.7 U
SW8270 PAH	Benzo(a)pyrene	ug/Kg	34 UJ	8.1 JB
SW8270 PAH	Benzo(b)fluoranthene	ug/Kg	34 UJ	13
SW8270 PAH	Benzo(g,h,i)perylene	ug/Kg	34 UJ	7.0 JB
SW8270 PAH	Benzo(k)fluoranthene	ug/Kg	34 UJ	7.0 JB
SW8270 PAH	Chrysene	ug/Kg	34 UJ	12
SW8270 PAH	Dibenz(a,h)anthracene	ug/Kg	34 UJ	5.2 U
SW8270 PAH	Fluoranthene	ug/Kg	43 J	21
SW8270 PAH	Fluorene	ug/Kg	34 UJ	1.7 U
SW8270 PAH	Indeno(1,2,3-cd)pyrene	ug/Kg	34 UJ	6.4 JB
SW8270 PAH	Naphthalene	ug/Kg	34 UJ	1.2 U
SW8270 PAH	Phenanthrene	ug/Kg	34 UJ	12 J
SW8270 PAH	Pyrene	ug/Kg	34 UJ	17

Polychlorinated Biphenyls (PCBs) in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)					
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	6.2 U	2.1 U	5.4 U	15 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	6.2 U	0.059 U	5.4 U	0.43 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	6.2 U	18 U	5.4 U	130 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	6.2 U	8.2 U	5.4 U	59 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	6.2 U	12 U	5.4 U	90 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	6.2 U	13 U	5.4 U	92 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	760	74	1900	1400

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Polychlorinated Biphenyls (PCBs) in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Polychlorinated Biphenyls (PCBs)			
SW8082	PCB-1016 (Aroclor 1016)	ug/Kg	7 U	2.1 U
SW8082	PCB-1221 (Aroclor 1221)	ug/Kg	7 U	0.058 U
SW8082	PCB-1232 (Aroclor 1232)	ug/Kg	7 U	17 U
SW8082	PCB-1242 (Aroclor 1242)	ug/Kg	7 U	8 U
SW8082	PCB-1248 (Aroclor 1248)	ug/Kg	7 U	12 U
SW8082	PCB-1254 (Aroclor 1254)	ug/Kg	7 U	12 U
SW8082	PCB-1260 (Aroclor 1260)	ug/Kg	130	68

J - Estimated Value, U - Non-detection, , ,ected, B - Found in Blank

Explosive Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives					
SW8330	1,3,5-Trinitrobenzene	ug/Kg	87 U	29 U	160 J	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	87 U	5.2 U	74 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	87 U	20 U	94 J	230
SW8330	2,4-Dinitrotoluene	ug/Kg	110 U	35 U	320	200
SW8330	2,6-Dinitrotoluene	ug/Kg	110 U	18 U	96 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	130 U	25 U	110 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	87 U	21 U	74 U	22 U
SW8330	3-Nitrotoluene	ug/Kg	130 U	55 U	110 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	87 U	15 U	74 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	87 U	89 U	74 U	90 U
SW8330	HMX	ug/Kg	87 U	29 U	160 J	70 JB
SW8330	Nitrobenzene	ug/Kg	96 U	16 U	81 U	16 U
SW8330	RDX	ug/Kg	87 U	180 U	74 U	180 U
SW8330	Tetryl	ug/Kg	87 U	35 U	74 U	35 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Explosive Compounds in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Explosives			
SW8330	1,3,5-Trinitrobenzene	ug/Kg	91 U	30 U
SW8330	1,3-Dinitrobenzene	ug/Kg	91 U	5.2 U
SW8330	2,4,6-Trinitrotoluene	ug/Kg	91 U	20 U
SW8330	2,4-Dinitrotoluene	ug/Kg	120 U	35 U
SW8330	2,6-Dinitrotoluene	ug/Kg	120 U	18 U
SW8330	2-Amino-4,6-Dinitrotoluene	ug/Kg	140 U	25 U
SW8330	2-Nitrotoluene	ug/Kg	91 U	21 U
SW8330	3-Nitrotoluene	ug/Kg	140 U	55 U
SW8330	4-Amino-2,6-Dinitrotoluene	ug/Kg	91 U	15 U
SW8330	4-Nitrotoluene	ug/Kg	91 U	90 U
SW8330	HMX	ug/Kg	120 J	30 U
SW8330	Nitrobenzene	ug/Kg	100 U	27 JB
SW8330	RDX	ug/Kg	98 J	180 U
SW8330	Tetryl	ug/Kg	91 U	35 U

J - Estimated Value, U - Non-detection, ı ;cted, B - Found in Blank

Metals in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals					
SW6010	Aluminum	mg/Kg	9680 J	12400	7430 J	10500
SW6010	Antimony	mg/Kg	3.1 UJ	0.35 U	2.7 UJ	0.58 JB
SW6010	Arsenic	mg/Kg	5.3	6.2	10.1	10
SW6010	Barium	mg/Kg	57.9 J	66.7	66.2	66.8
SW6010	Beryllium	mg/Kg	0.65 J	0.63	0.56 J	0.63
SW6010	Cadmium	mg/Kg	0.31 U	0.028 JB	0.44 J	0.11 B
SW6010	Calcium	mg/Kg	5360	6470	3930	3210
SW6010	Chromium	mg/Kg	16.2 J	20	12.8 J	19.5
SW6010	Cobalt	mg/Kg	6.8 J	7.9	9.1 J	9.2
SW6010	Copper	mg/Kg	22.4	21.5	20.8	27
SW6010	Iron	mg/Kg	17400 J	21900	23400 J	29000
SW6010	Lead	mg/Kg	65.9 J	70.1	47.9 J	61.6
SW6010	Magnesium	mg/Kg	2650 J	3400	1990 J	2250
SW6010	Manganese	mg/Kg	105 J	162	187 J	131
SW7471	Mercury	mg/Kg	0.051 B	0.078	0.049 B	0.054
SW6010	Nickel	mg/Kg	21.2	23.2	21.9	27
SW6010	Potassium	mg/Kg	1060 J	1930	859 J	1420
SW6010	Selenium	mg/Kg	0.92 U	1.9	0.8 U	1.4
SW6010	Silver	mg/Kg	0.31 U	0.07 U	0.27 U	0.043 U
SW6010	Sodium	mg/Kg	307 U	101 JB	267 U	65.2 JB
SW6010	Thallium	mg/Kg	0.38 U	0.97 U	0.33 U	1.2 JB
SW6010	Vanadium	mg/Kg	24.8	32.8	18.1	24.5
SW6010	Zinc	mg/Kg	59.8 J	75	94.4 J	117

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Metals in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Metals			
SW6010	Aluminum	mg/Kg	9040 J	12200
SW6010	Antimony	mg/Kg	3.4 UJ	0.52 JB
SW6010	Arsenic	mg/Kg	12.7	9.8
SW6010	Barium	mg/Kg	68.8	81.3
SW6010	Beryllium	mg/Kg	0.6 J	0.63
SW6010	Cadmium	mg/Kg	0.51 J	0.15 B
SW6010	Calcium	mg/Kg	56600	59500
SW6010	Chromium	mg/Kg	15.3 J	20.2
SW6010	Cobalt	mg/Kg	9.8 J	9.4
SW6010	Copper	mg/Kg	24.6	23.3
SW6010	Iron	mg/Kg	23000 J	23800
SW6010	Lead	mg/Kg	22.1 J	23.3
SW6010	Magnesium	mg/Kg	15200 J	16000
SW6010	Manganese	mg/Kg	388 J	391
SW7471	Mercury	mg/Kg	0.028 JB	0.032 JB
SW6010	Nickel	mg/Kg	26	25.9
SW6010	Potassium	mg/Kg	1200 J	2200
SW6010	Selenium	mg/Kg	1 U	1.9
SW6010	Silver	mg/Kg	0.34 U	0.07 U
SW6010	Sodium	mg/Kg	336 U	146 B
SW6010	Thallium	mg/Kg	0.42 U	0.97 U
SW6010	Vanadium	mg/Kg	22.4	31.8
SW6010	Zinc	mg/Kg	76.1 J	81.1

J - Estimated Value, U - Non-detection, ,ected, B - Found in Blank

Cyanide in Sediments
Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA2-SWSD-07 PBOW-06-SD-AA2-SD07-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-07 PBOW.06.SD.AA2.SD07.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result	AA2-SWSD-18 PBOW-06-SD-AA2-SD18-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA2-SWSD-18 PBOW.06.SD.AA2.SD18.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry					
SW9012	Cyanide	mg/Kg	0.29 J		0.2 J	
SW9014	Cyanide	mg/Kg		0.24 U		0.19 U

J - Estimated Value, U - Non-detection, R - Rejected, B - Found in Blank

Cyanide in Sediments

Data Comparison Between ELAB Primary Results and GPL QA Confirmation Results

Method	Analyte	Location Samp. Num. Date Depth Units	AA3-SWSD-08 PBOW-06-SD-AA3-SD08-A 06/12/2006 0.0-0.0 ft. Primary ELAB Result	AA3-SWSD-08 PBOW.06.SD.AA3.SD08.B 06/12/2006 0.0-0.0 ft. Confirmation GPL QA Result
	Wet Chemistry			
SW9012	Cyanide	mg/Kg	0.22 U	
SW9014	Cyanide	mg/Kg		0.24 U

J - Estimated Value, U - Non-detection, , ,ected, B - Found in Blank

Chemical Quality Assurance Report

Acid Areas 2 and 3
Additional Surface Water and Sediment Sampling
Former Plum Brook Ordinance Works
Sandusky, OH

May and June 2006 Sampling Event

Presented by:

Jacobs Engineering Group Inc.
125 Broadway Avenue
Oak Ridge, Tennessee 37830
POC:

Chemical Quality Assurance Report

Acid Areas
Remedial Investigation, Part 1
Former Plum Brook Ordnance Works
Sandusky, OH

April 2005 Sampling Event

Presented by:

Stratum Engineering, Inc.
3751 Pennridge Drive, Suite 119
Bridgeton, MO 63044
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ATTACHMENT 2 QA DATA SUMMARY
ATTACHMENT 3 DATA COMPARISON

ABBREVIATIONS AND ACRONYMS

CQAR	Chemical Quality Assurance Report
COC	Chain of Custody
%D	Percent Difference
DL	Detection Limit
DQO	Data Quality Objective
EM	Engineering Manual
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
GC	Gas Chromatograph or Gas Chromatography
HTRW	Hazardous, Toxic, Radioactive Waste
ICAP	Inductively Coupled Argon Plasma Spectrophotometer
ISA	Internal Standard Area
LCS	Laboratory Control Sample
MDL	Method Detection Limit
mg/L	milligram per liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PAH	Polycyclic Aromatic Hydrocarbon
PBOW	Plum Brook Ordnance Works
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QC	Quality Control
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
SB	Soil Boring
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
SW-846	Solid Waste Analytical Protocols
TAL	Target Analyte List
TCL	Target Compound List
µg/L	Microgram per liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency

INTRODUCTION

This Chemical Quality Assurance Report (CQAR) presents an evaluation of the quality and usability of the Quality Assurance (QA) analytical data generated in support of the groundwater and surface water sampling event performed by Jacobs Engineering, Inc. at the at the Acid Areas site at the Former Plum Brook Ordnance Works (PBOW) in Sandusky, Ohio in April 2005. The findings of this evaluation are presented in terms of data precision, accuracy, representativeness, sensitivity, and completeness.

Analytical samples evaluated in this report consisted of three QA samples that were collected in conjunction with the project Quality Control (QC) samples (i.e., primary and duplicate) at a frequency of approximately ten percent of the QC samples. The project samples are summarized in Attachment I, Sample Number Correlation. The QA data is presented in tables in Attachment II – QA Data Summary. Data comparison tables with respect to the QC and QA data are presented in Attachment III – Data Comparison.

Analytical Methods

Analyses for this project were performed in strict accordance with the following protocols:

- *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, November 1986 (SW-846)
- *Methods for the Chemical Analysis of Water and Wastes,* Office of Research and Development, EPA/600/4-79/020, March, 1983 (USEPA 1983)

Specific analytical methods used included the following:

- SW-846, Method 5030B/8260B – volatile organic chemicals
- SW-846, Method 3510C/8270C – semivolatile organic chemicals analysis
- SW-846, Method 8330A – nitroaromatics analysis (referred to as explosives hereafter)
- SW-846, Method 3520C/8082 – polychlorinated biphenyls (PCBs)
- SW-846, Method 3005A – digestion for total and soluble ICAP metals
- SW-846, Method 7470A – digestion for total and soluble mercury
- SW-846, Method 9012A – distillation method for cyanide
- SW-846, Method 6010C – Inductively Coupled Argon Plasma Spectrophotometer (ICAP) for metals analysis
- SW-846, Method 7470A – mercury analysis
- SW-846, Method 9012A– cyanide analysis
- SW-846, Method 9060 – total organic carbon analysis
- USEPA 1983, Method 310.1 – alkalinity analysis
- USEPA 1983, Method 300.1 – chloride, nitrate-nitrogen, and sulfate analysis
- USEPA 1983, Method 200.7 – hardness analysis
- USEPA 1983, Method 160.1 – total dissolved solids analysis
- USEPA 1983, Method 160.2 – total suspended solids analysis
- USEPA 1983, Method 180.1 – turbidity analysis

Analytical Laboratories

The following analytical laboratory was contracted to analyze the Primary - QC field samples for this project:

ELAB of Tennessee, LLC
Contact: Marcia K. McGinnity, Senior Project Manager
227 French Landing Drive, Suite 550
Nashville, TN 37228
Phone: (615) 345-1115
Fax: (615) 846-5426

The following analytical laboratory was contracted to analyze the QA field samples for this project:

GPL Laboratories, LLLP
7210A Corporate CT
Frederick, MD 21703
Phone: (301) 694-5310;
Fax: (301) 620-0731

Both of these laboratories have been validated by the US Army Corps of Engineers (USACE).

Data Evaluation Procedures

The quality of this project data has been evaluated following procedures consistent with those included in USACE's Engineering Manual (EM) 200-1-6 *Chemical Quality Assurance for HTRW Projects*, 10 October 1997, as well as *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA-540/R-99/008, October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540/R-94/013, February 1994 (*Functional Guidelines*). Data evaluations were also based on the QC requirements of the individual analytical methods.

The data evaluation for this project consisted of the following procedures:

- Review of chain-of-custody and sample receipt forms to evaluate sample receipt data, damaged sample containers, etc.;
- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.;
- Review of field QC blank data to detect contamination from outside sources;
- Review of QC data to evaluate data reproducibility;

- Review of laboratory QC including verification of calibration, instrument performance checks, laboratory blanks, spike recovery, and duplicates;
- Assignment of appropriate qualifiers to usable data and unusable data as necessary; and
- Presentation of data evaluation findings in terms of the PARCC (precision, accuracy, representativeness, comparability, and completeness) data quality parameters.

Data Qualifier Definitions

Data qualifiers were assigned to the analytical results as part of the data review process. Definitions of these data qualifiers, which are consistent with those used within the *Functional Guidelines* referenced above, are provided below.

U – The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified. However, the associated numerical value is an estimate of the concentration of the analyte in the sample.

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

I. QC DATA EVALUATION

The data evaluation of the QC data is summarized below.

A. Accuracy:

1) Volatile Organic Chemicals
   - For Sample Delivery Group (SDG) PlumbrookW002, one volatile organic compound (VOC) (bromoform) was reported as having a low percent recovery (%R) and three VOCs (dibromochloromethane, 1,2-dibromoethane, and 1,2,4-trichlorobenzene) were reported as having high %Rs for the matrix spike (MS). The matrix spike duplicate (MSD) for this SDG reported four VOCs (bromoform, dibromochloromethane, 1,2-dibromoethane, and 1,2,4-trichlorobenzene) as having high %Rs.
   - Two laboratory control samples (LCSs) for SDG#PlumbrookW002 reported slightly high %Rs for three VOCs (dibromochloromethane, 1,2-dibromoethane, and 1,2,4-trichlorobenzene).
   - An LCS for SDG#PlumbrookW002 reported high %Rs for two VOCs (1,2-dibromomethane and 1,2,4-trichlorobenzene).
   - An LCS for SDG#PlumbrookW002 reported slightly high %Rs for two VOCs (trans-1,3-dichloropropane and isopropylbenzene).
   - An LCS and laboratory control sample duplicate (LCSD) pair both reported high %Rs for 1,2,4-trichlorobenzene and low %Rs for bromomethane.
   - All surrogate recoveries were within control criteria for SDG#PlumbrookW002.
   - Seven trip blanks (TBs) were analyzed for SDG#PlumbrookW002. All results reported nondetects of VOCs. One TB, PBOW-05-TB-042105-02, was analyzed 32 days, only slightly exceeding it's holding time.
   - The internal standard area responses for SDG#PlumbrookW002 were all within the control criteria limits.
   - Holding times for all analyses for SDG#PlumbrookW002 were met (with the slight exception reported for one TB presented above).

2) Semivolatile Organic Compounds
   - The surrogate %R of d14-terphenyl was low (51%) in sample PBOW-05-SW-AA2-SW01-A.
   - One or more of the acid surrogates %Rs were reported as low for the following samples:

     PBOW-05-GW-AA3-BEDGW001-02A
     PBOW-05-GW-AA3-GW003-02A
     PBOW-05-GW-AA3-BEDGW002-02A
     PBOW-05-GW-AA2-GW001-02A
     PBOW-05-GW-AA2-ITMW10-02A
     PBOW-05-GW-AA3-GW005-02A

PBOW-05-GW-AA3-GW004-02A
PBOW-05-GW-AA3-BEDGW003-02A
PBOW-05-SW-AA2-SW02-02A

- %Rs of hexachlorocyclopentadiene were reported as slightly low in one LCS and one LCSD.
- Three SVOCs (hexachlorobutadiene, hexachlorocyclopentadiene, and hexachloroethane) were reported as having low %Rs in an MS sample of SDG#PlumbrookW002.
- Hexachlorocyclopentadiene was reported as having a slightly low (29%) %R for two LCSs of SDG#PlumbrookW002.
- Eight phenolic SVOCs and hexachlorocyclopentadiene are reported as having low %Rs for the MS of sample PBOW-05-GW-AA3-GW003-02A of SDG#PlumbrookW002.
- Nine phenolic SVOCs are reported as having low %Rs for the MSD of sample PBOW-05-GW-AA3-GW003-02A of SDG#PlumbrookW002.
- Six phenolic SVOCs are reported as having low %Rs for the MS of sample PBOW-05-SW-AA2-SW03-A of SDG#PlumbrookW002.
- Four phenolic SVOCs are reported as having low %Rs for the MSD of sample PBOW-05-SW-AA2-SW03-A of SDG#PlumbrookW002.
- The internal standard area responses for SDG#PlumbrookW002 were all within the control criteria limits.
- Five samples (PBOW-05-GW-AA2-ITMW10-02A, PBOW-05-GW-AA3-GW005-02A, PBOW-05-GW-AA3-GW004-02A, PBOW-05-GW-AA3-BEDGW003-02A, and PBOW-05-SW-AA2-SW02-A) were extracted 11 and 12 days after sampling, which exceeds the extraction times for SVOC analytes. Results for re-extract were found to be similar to the original extraction for all but two samples (PBOW-05-GW-AA3-BEDGWW003-02A and PBOW-05-SW-AA2-SW02-A).

3) Explosives
- Surrogate %R for 1-chloro-3-nitrobenzene was reported as high in the primary column analysis of samples PBOW-05-GW-AA2-BEDGW001-02A and PBOW-05-GW-AA2-ITMW10-02A for SDG#PlumbrookW002.
- MS and MSD %Rs were reported as being within control criteria for SDG#PlumbrookW002.
- All LCSs for were within control criteria for SDG#PlumbrookW002.
- Holding times for all analyses for SDG#PlumbrookW002 were met.

4) Polychlorinated Biphenyls
- One surrogate recovery for decachlorobiphenyl in SDG#PlumbrookW002 was reported as low (21%) for sample PBOW-05-GW-AA2-GEDGW001-02C.
- All MS and MSD %Rs were within control criteria limits for SDG#PlumbrookW002.
- All LCS and LCSD %Rs were within the control criteria for SDG#PlumbrookW002.
- Holding times for all analyses for SDG#PlumbrookW002 were met.

5) Metals

- The MS and MSD %Rs were reported as outside control criteria for cyanide. The MS was reported as low (16.8%) and the MSD %R was reported as high (44%) for sample PBOW-05-GW-AA3-BEDGW001-02. The MS %R was reported as high (73.2%) for sample PBOW-05-GWAA2-GW002-02A. The following samples are flagged as J or UJ for cyanide:

PBOW-05-GW-AA3-GW002-02A	UJ
PBOW-05-GW-AA3-GW002-02D	UJ
PBOW-05-GW-BED-GW001-02A	UJ
PBOW-05-GW-AA3-GW002-02C	J
PBOW-05-GW-AA2-BEDGW00-02C	UJ
PBOW-05-GW-AA2-ITMW10-02A	UJ
PBOW-05-GW-AA3-GW005-02A	UJ
PBOW-05-GW-AA3-GW004-02A	UJ
PBOW-05-GW-AA3-BEDGW003-02A	UJ
PBOW-05-GW-AA2-GW002-02ACN	UJ

- The LCS %Rs were within control criteria limits for SDG#PlumbrookW002 were met.
- Holding times for all analyses for SDG SDG#PlumbrookW002 were met.

B. Precision

1) Volatile Organic Compounds
   - The MS/MSD pair for SDG#PlumbrookW002 reported a slightly high relative percent difference (RPD) for vinyl chloride (37%).
   - A LCS/LCSD pair for SDG#PlumbrookW002 reported a high relative percent difference (RPD) of 58% for bromomethane.

2) Semivolatile Organic Compounds
   - For SDG#PlumbrookW002, 4,6-dinitro-2-methylphenol, 4-nitrophenol, pentachlorophenol, and 2,4,6-trichlorophenol were reported as having high RPDs for the MS/MSD pair of sample PBOW-05-SW-AA2-SW03-A.

3) Explosives
   - All QC recoveries were found to be within the control criteria limits.

4) Polychlorinated Biphenyls
   - All QC recoveries were found to be within the control criteria limits.

5) Metals
   - The MS/MSD pair analyzed for SDG#PlumbrookW002 reported cyanide as having a high RPD of 89.4%.

- For SDG#PlumbrookW002, one sample (PBOW-05-GW-AA3-GW002A) reported zinc at a concentration of 11.5 µg/L in the Primary QC sample and 56.7 µg/L in the field duplicate sample. In another sample (PBOW-05-SW-AA3-SW03-A), aluminum was detected at 404 µg/L J in the Primary QC and 244 µg/L J in the field duplicate, iron was detected at 644 µg/L J in the Primary QC and 307 µg/L J in the field duplicate, and manganese was detected at 147 µg/L J in the Primary QC and 41.2 µg/L J in the field duplicate. These discrepancies should be compared to the project's Data Quality Objectives (DQOs) to evaluate their overall significance.

C. Laboratory Contamination

1) Volatile Organic Compounds
   - No contamination was found in any of the associated laboratory blanks of SDG#PlumbrookW002.

2) Semivolatile Organic Compounds
   - No contamination was found in any of the associated laboratory blanks SDG#PlumbrookW002.

3) Explosives
   - No contamination was found in any of the associated laboratory blanks SDG#PlumbrookW002.

4) Polychlorinated Biphenyls
   - No contamination was found in any of the associated laboratory blanks SDG#PlumbrookW002.

5) Metals
   - A method blank (MB) of SDG#PlumbrookW002 reported a detection of thallium.
   - The initial calibration blank (ICB) of SDG#PlumbrookW002 was reported as outside the control criteria (negative 1.6 µg/L) for lead.
   - A continuing calibration blank (CCB) of SDG#PlumbrookW002 reported a detection of thallium.
   - The ICB and a CCB for SDG#PlumbrookW002 reported detections of cyanide in the first analysis of this SDG.
   - The ICB and CCB for SDG#PlumbrookW002 reported detections of cyanide in the third analysis of this SDG.

II. QA DATA EVALUATION

The data evaluation of the QA data is summarized below.

a. Accuracy

1) Volatile Organic Chemicals

- For SDG-504204, multiple VOCs were outside control criteria limits for both the MS and MSD %Rs for sample PBOW-05-GW-AA3-GW002-02B, as follows:
  - 1,1,2,2-tetrachloroethane (high)
  - 1,1,2-trichloroethane (high)
  - 1,2-dibromo-3-chloropropane (high)
  - 2-butanone (high)
  - 2-hexanone (high)
  - 4-methyl-2-pentanone
  - bromomethane (low)
  - carbon disulfide (low)
  - chlorethane (low)
  - methylene chloride (low)
  - trans-1,3-dichloropropene (high)
- Three VOCs (trichlorofluoromethane, tert-butyl methyl ether, and trans-1,2-dichloroethene) %Rs were reported as low for sample PBOW-05-GW-AA3-GW002-02B of SDG-504204.
- For SDG-504204, multiple VOCs %Rs were outside control criteria limits for the LCS, as follows:
  - 1,1,2,2-tetrachloroethane (high)
  - 1,1-dichloroethene (low)
  - 1,2-dibromo-3-chloropropane (high)
  - 2-butanone (high)
  - 2-hexanone (high)
  - 4-methyl-2-pentanone (high)
  - bromoform (high)
  - carbon disulfide (low)
  - methylene chloride (low)
  - trans-1,3-dichloropropene (high)
- Because the MS, MSD, and LCS %Rs are outside control criteria limits, the following VOCs are validated as J or UJ, as appropriate, for SDG-504204:
  - 1,1,2,2-tetrachloroethane
  - 1,2-dibromo-3-chloropropane
  - 2-butanone
  - 2-hexanone
  - 4-methyl-2-pentanone
  - carbon disulfide
- MS, MSD, LCS, and LCSD %Rs were all reported within control criteria limits for SDG-505007.

- MS and MSD %Rs for SDG-504175 reported five VOCs (1,2,4-trichlorobenzene, acetone, bromomethane, chloromethane, dichlorodifluoromethane, and methylene chloride) at concentrations less than their respective control criteria.
- The LCS of SDG-504175 reported acetone at a %R below its control criteria limit.
- All surrogate recoveries were within control criteria for SDG-504204, SDG-505007, and SDG-504175.
- Trip blanks analyzed for SDG-504204, SDG-505007, and SDG-504175 did report any detections of VOCs.
- Holding times for all analyses of SDG-504204, SDG-505007, and SDG-504175 were met.

2) Semivolatile Organic Compounds
   - MS and MSD analyses could not be performed for SDG-504204 or SDG-505007 as there was not enough sample volume for the one sample submitted.
   - LCS and LCSD %Rs were within control criteria limits for SDG-505007 and SDG-504175.
   - Surrogate %Rs were within control criteria limits for SDG-504204, SDG-505007, and SDG-504175.
   - Holding times for all analyses for SDG-504204, SDG-505007, and SDG-504175 were met.

3) Explosives
   - All surrogate %Rs were within control criteria limits for SDG-504204, SDG-505007, and SDG-504175.
   - All LCS %Rs for were within control criteria for SDG-504204, SDG-505007, and SDG-504175.
   - Holding times for all analyses for SDG-504204, SDG-505007, and SDG-504175 were met.

4) Polychlorinated Biphenyls
   - All surrogate %Rs were within control criteria limits for SDG-504204, SDG-505007, and SDG-504175.
   - All LCS and LCSD %Rs were within the control criteria for SDG-504204, SDG-505007, and SDG-504175.
   - Holding times for all analyses for SDG-504204, SDG-505007, and SDG-504175 were met.

5) Metals
   - The MS and MSD %Rs were within control criteria limits for SDG-504204, SDG-505007, and SDG-504175.

B. Precision

1) Volatile Organic Compounds
   - All QC recoveries were found to be within the control criteria limits for SDG-504204, SDG-505007, and SDG-504175.

2) Semivolatile Organic Compounds
   - All QC recoveries were found to be within the control criteria limits for SDG-504204, SDG-505007, and SDG-504175.

3) Explosives
   - All QC recoveries were found to be within the control criteria limits for SDG-504204, SDG-505007, and SDG-504175.

4) Polychlorinated Biphenyls
   - All QC recoveries were found to be within the control criteria limits for SDG-504204, SDG-505007, and SDG-504175.

5) Metals
   - The MS/MSD pairs analyzed for SDG-504204, SDG-505007, and SDG-504175 reported all RPDs within control criteria limits.
   - Serial dilutions performed for SDG-504204, SDG-505007, and SDG-504175 were within control criteria limits.

C. Laboratory Contamination

1) Volatile Organic Compounds
   - No contamination was found in any of the associated laboratory blanks of SDG-504204, SDG-505007, and SDG-504175.

2) Semivolatile Organic Compounds
   - No contamination was found in any of the associated laboratory blanks of SDG-504204, SDG-505007, and SDG-504175.

3) Explosives
   - No contamination was found in any of the associated laboratory blanks SDG-504204, SDG-505007, and SDG-504175.

4) Polychlorinated Biphenyls
   - No contamination was found in any of the associated laboratory blanks SDG-504204, SDG-505007, and SDG-504175.

5) Metals
   - The method blank (MB) of SDG-504204 reported detections of barium, calcium, lead, magnesium, and thallium. The MB of SDG-505007 reported detections of

barium, calcium, chromium, and magnesium. The MB of SDG-504175 reported detections of barium, calcium, lead, magnesium, manganese, and thallium.

- Two continuing calibration blanks (CCBs) of SDG-504204, SDG-505007, and SDG-504175 reported detections of cobalt and thallium.

- The interference check standard reported results for antimony, cadmium, chromium, and silver outside the control criteria limits for SDG-504204 and SDG-504175. The interference check standard reported results for antimony, barium, cadmium, chromium, selenium, and silver outside the control criteria limits for SDG-505007.

III. QA/QC DATA COMPARISON

In accordance with EM 200-1-6, a data comparison of the QC and QA data was performed based on the agreement criteria summarized in the table below:

Criteria for Comparing Field QC and QA Sample Data

Matrix	Parameter	Disagreement	Major Disagreement
Water	All (except TPH)	> 2x difference	>3x difference
Water	TPH	Arbitrary (suggest > 3x difference)	Arbitrary (suggest > 5x difference)

Data found out of control were examined to determine if the disagreements were extreme, isolated occurrences, or if negative trends existed. Various factors can contribute to duplicate disagreement, including the natural variability of the sample matrix, high or low analyte concentrations, or the presence of compounds that interfere with analysis. Negative trends may indicate systemic errors made in sampling, handling, or analytical procedures; or may indicate the selection of an inappropriate protocol. If negative trends or extreme non-conformances exist, associated data were evaluated carefully to determine their validity. It should be noted that samples found in disagreement did not necessarily indicate an error had been made or inappropriate procedures used.

Attachment III presents tables that show a side-by-side comparison of the analytical results of the field QC and QA samples. A summary of the evaluation of this comparison is presented below.

A. Volatile Organic Chemicals

Vinyl chloride was detected in the QA sample of PBOW-05-GW-AA2-MKMW09 at a concentration of 1.5µg/L, but not detected the associated QC sample (0.5 µg/L U). With the exception of acetone and methylene chloride (common laboratory contaminants) all other VOC analytical results are in agreement. Acetone (12 µg/L) and methylene chloride (1.1 µg/L J) were detected in the QA sample for PBOW-05-GW-AA2-MKMW09 and not in the associated Primary QC sample (2.0 and 0.3 µg/L U, respectively). Methylene chloride was detected in the QA samples of PBOW-05-SW-AA3-SW03-B (3.7 µg/L) and PBOW-05-GW-AA3-GW002-02B (3.2 µg/L), while not detected in their associated Primary QC samples (1.1 µg/L U). All other VOC analytes are in agreement between the QA and Primary QC results.

B. Semivolatile Organic Chemicals

Bis(2-ethylhexyl)phthalate was detected in the QA sample of PBOW-05-SW-AA3-SW03-B, but not in the Primary QC sample (1.1 µg/L U). No other disagreements were found between the QC and QA sample results for SVOCs.

C. Explosives

No disagreements were found between the QA and QC sample results for explosives.

D. Polychlorinated Biphenyls

No disagreements were found between the QA and QC sample results for PCBs.

D. Metals

Aluminum and iron results demonstrated disagreements between the QA and QC samples and manganese results demonstrated a major disagreement between the QA and QC samples for one sample, PBOW-05-SW-AA3-SW03-B. In one or more samples, arsenic, beryllium, chromium, cobalt, copper, iron, lead, nickel, potassium, thallium, mercury, vanadium, and zinc were detected in just either the QA or the QC sample, not both. These detections were all at low concentrations, usually at just greater than their respective detection limits. The non-detections seemed only to be an artifact of a detection limit that was higher than the detection limit of the alternate laboratory.

IV. PROBLEMS

No major problems were found with the quality and usability of the analytical data generated for this project. All of the results were considered usable. Qualifiers were added to specific data results to indicate estimated concentrations when QA data results were not within specific criteria limitations.

V. SUMMARY AND CONCLUSIONS

In general, the QC and QA sample results indicated that the data met "definitive data" standards and were of known quality. The data reported are acceptable with the required qualifications. No results were found to unusable due to data QC deficiencies. QC data demonstrated that the QA mechanisms were effective in ensuring measurement data reliability within expected limits of sampling and analytical error and were considered, as qualified, representative of actual site and sample conditions at the time sampled.

ATTACHMENT 1 – SAMPLE CORRELATION

Primary Field Sample ID	Primary Lab Sample ID	QA Field Sample ID	QA Lab Sample ID	Sample Date and Time	Requested Analyses
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-001	4/21/05 1412	8260B VOCs
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-006	4/21/05 1412	8270C SVOCs
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-008	4/21/05 1412	8082 PCBs
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-009	4/21/05 1412	8330 Explosives
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-010	4/21/05 1412	9012A Cyanide
PBOW-05-GW-AA3-GW002-02A	0504186-01	PBOW-05-GW-AA3-GW002-02B	504175-001-001	4/21/05 1412	6010B/7471A Metals
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-001	4/25/05 1515	8260B VOCs
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-006	4/25/05 1515	8270C SVOCs
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-008	4/25/05 1515	8082 PCBs
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-009	4/25/05 1515	8330 Explosives
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-010	4/25/05 1515	6010B/7471A Metals
PBOW-05-GW-AA2-MKMW09-02A	0504216-01	PBOW-05-GW-AA2-MKMW09-02B	504204-001-011	4/25/05 1515	9012A Cyanide
PBOW-05-SW-AA3-SW03-A	0505004-06	PBOW-05-SW-AA3-SW03-B	505007-002-003	4/29/05 1140	8260B VOCs
PBOW-05-SW-AA3-SW03-A	0505004-06	PBOW-05-SW-AA3-SW03-B	505007-002-003	4/29/05 1140	8270C SVOCs
PBOW-05-SW-AA3-SW03-A	0505004-06	PBOW-05-SW-AA3-SW03-B	505007-002-003	4/29/05 1140	8082 PCBs
PBOW-05-SW-AA3-SW03-A	0505004-06	PBOW-05-SW-AA3-SW03-B	505007-002-003	4/29/05 1140	8330 Explosives
PBOW-05-SW-AA3-SW03-A	0505004-06	PBOW-05-SW-AA3-SW03-B	505007-002-003	4/29/05 1140	6010B/7471A Metals

ATTACHMENT II – QA DATA SUMMARIES

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-GW-002
Sample ID: PBOW-05-GW-AA3-GW002-02B
Sample Date: 04/21/2005
Sample Time: 15:15

		Result		DL (ug/l)
SW6020	Aluminum	ND	U	17.8
	Antimony	ND	U	0.21
	Arsenic	0.74	J	0.49
	Barium	52.1		0.26
	Beryllium	ND	U	0.024
	Cadmium	ND	U	0.085
	Calcium	106000		29.8
	Chromium	ND	U	0.39
	Cobalt	ND	U	0.019
	Copper	2.1	J	0.99
	Iron	14.2		3.5
	Lead	ND	U	0.25
	Magnesium	25800		5.2
	Manganese	0.72	J	0.23
	Nickel	0.65		0.12
	Potassium	476		24.6
	Selenium	ND	U	0.55
	Silver	ND	U	0.042
	Sodium	6490		24.0
	Thallium	0.15	J	0.11
	Vanadium	ND	U	1.8
	Zinc	8.8		0.95
SW7470	Mercury (total)	ND	U	0.10
SW9014	Cyanide	ND	U	5.0
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.17
	PCB-1221 (Aroclor 1221)	ND	U	0.83
	PCB-1232 (Aroclor 1232)	ND	U	0.42
	PCB-1242 (Aroclor 1242)	ND	U	0.53
	PCB-1248 (Aroclor 1248)	ND	U	0.12
	PCB-1254 (Aroclor 1254)	ND	U	0.18
	PCB-1260 (Aroclor 1260)	ND	U	0.24
SW8260	1,1,1-Trichloroethane	ND	U	0.67
	1,1,2,2-Tetrachloroethane	ND	U	0.44
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	0.75
	1,1,2-Trichioroethane	ND	U	0.30
	1,1-Dichloroethane	ND	U	0.50
	1,1-Dichloroethene	ND	U	0.57
	1,2,4-Trichlorobenzene	ND	U	0.55
	1,2-Dibromo-3-chloropropane	ND	U	0.61
	1,2-Dibromoethane (EDB)	ND	U	0.36
	1,2-Dichlorobenzene	ND	U	0.33
	1,2-Dichloroethane	ND	U	0.36
	1,2-Dichloropropane	ND	U	0.27
	1,3-Dichlorobenzene	ND	U	0.29
	1,4-Dichlorobenzene	ND	U	0.33
	2-Butanone (Methyl ethyl ketone)	ND	U	1.2
SW8260 - cont.	2-Hexanone	ND	U	0.63
	4-Methyl-2-pentanone (MIBK)	ND	U	0.36

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-GW-002
Sample ID: PBOW-05-GW-AA3-GW002-02B
Sample Date: 04/21/2005
Sample Time: 15:15

		Result		DL (ug/l)
	Acetone	ND	U	2.9
	Benzene	ND	U	0.47
	Bromodichloromethane	ND	U	0.43
	Bromoform	ND	U	0.25
	Bromomethane	ND	U	0.46
	Carbon Disulfide	ND	U	0.53
	Carbon tetrachloride	ND	U	0.77
	Chlorobenzene	ND	U	0.39
	Chloroethane	ND	U	1.5
	Chloroform	ND	U	0.44
	Chloromethane	ND	U	0.67
	cis-1,2-Dichloroethene	ND	U	0.20
	cis-1,3-Dichloropropene	ND	U	0.34
	Cyclohexane	ND	U	0.55
	Dibromochloromethane	ND	U	0.32
	Dichlorodifluoromethane	ND	U	0.84
	Ethylbenzene	ND	U	0.64
	Isopropylbenzene (Cumene)	ND	U	0.55
	m,p-Xylene (sum of isomers)	ND	U	0.81
	Methyl Acetate	ND	U	2.2
	Methylcyclohexane	ND	U	0.79
	Methylene Chloride	3.2	J	1.1
	o-Xylene (1,2-Dimethylbenzene)	ND	U	0.36
	Styrene	ND	U	0.34
	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.17
	Tetrachloroethene (PCE)	ND	U	1.0
	Toluene	ND	U	0.36
	trans-1,2-Dichloroethene	ND	U	0.59
	trans-1,3-Dichloropropene	ND	U	0.23
	Trichloroethene (TCE)	ND	U	0.46
	Trichlorofluoromethane	ND	U	0.86
	Vinyl chloride	ND	U	0.92
SW8270	2,2'-Oxybis(1-Chloro)Propane	ND	U	0.96
	2,4,5-Trichlorophenol	ND	U	1.8
	2,4,6-Trichlorophenol	ND	U	2.4
	2,4-Dichlorophenol	ND	U	2.7
	2,4-Dinitrophenol	ND	U	3.2
	2,4-Dinitrotoluene	ND	U	1.6
	2,6-Dinitrotoluene	ND	U	0.57
	2-Chloronaphthalene	ND	U	0.70
	2-Chlorophenol	ND	U	1.5
	2-Methylnaphthalene	ND	U	1.1
	2-Methylphenol (o-Cresol)	ND	U	2.4
	2-Nitroaniline	ND	U	1.1
	2-Nitrophenol	ND	U	1.5
SW8270 - cont.	3,3'-Dichlorobenzidine	ND	U	5.1
	3-Nitroaniline	ND	U	2.0
	4,6-Dinitro-2-methylphenol	ND	U	1.7
	4-Bromophenyl phenyl ether	ND	U	0.56

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-GW-002
Sample ID: PBOW-05-GW-AA3-GW002-02B
Sample Date: 04/21/2005
Sample Time: 15:15

		Result		DL (ug/l)
	4-Chloro-3-methylphenol	ND	U	2.0
	4-Chloroaniline	ND	U	1.8
	4-Chlorophenyl phenyl ether	ND	U	1.4
	4-Methylphenol (p-Cresol)	ND	U	1.3
	4-Nitroaniline	ND	U	2.3
	4-Nitrophenol	ND	U	3.0
	Acenaphthene	ND	U	1.3
	Acenaphthylene	ND	U	0.69
	Acetophenone	ND	U	1.0
	Anthracene	ND	U	1.4
	Atrazine	ND	U	1.0
	Benzaldehyde	ND	U	1.0
	Benzo(a)anthracene	ND	U	1.3
	Benzo(a)pyrene	ND	U	1.4
	Benzo(b)fluoranthene	ND	U	2.2
	Benzo(g,h,i)perylene	ND	U	2.0
	Benzo(k)fluoranthene	ND	U	2.1
	Benzyl butyl phthalate	ND	U	1.3
	Biphenyl (Diphenyl)	ND	U	1.0
	bis(2-Chloroethoxy)methane	ND	U	0.61
	bis(2-Chloroethyl)ether	ND	U	1.2
	bis(2-Ethylhexyl)phthalate	ND	U	1.0
	Caprolactam	ND	U	1.0
	Carbazole	ND	U	1.4
	Chrysene	ND	U	1.6
	Dibenz(a,h)anthracene	ND	U	1.7
	Dibenzofuran	ND	U	0.76
	Diethylphthalate	ND	U	5.0
	Dimethylphthalate	ND	U	3.8
	Di-n-butylphthalate	ND	U	1.2
	Di-n-octylphthalate	ND	U	1.3
	Fluoranthene	ND	U	1.6
	Fluorene	ND	U	1.4
	Hexachlorobenzene	ND	U	0.76
	Hexachlorobutadiene	ND	U	0.71
	Hexachlorocyclopentadiene	ND	U	3.6
	Hexachloroethane	ND	U	1.1
	Indeno(1,2,3-cd)pyrene	ND	U	1.7
	Isophorone	ND	U	0.94
	Naphthalene	ND	U	1.2
	Nitrobenzene	ND	U	0.90
	N-Nitroso-di-n-propylamine	ND	U	1.1
	N-Nitrosodiphenylamine	ND	U	0.98
	Pentachlorophenol	ND	U	2.1
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050
	1,3-Dinitrobenzene	ND	U	0.060
	2,4,6-Trinitrotoluene	ND	U	0.090
	2,4-Dinitrotoluene	ND	U	0.080
	2,6-Dinitrotoluene	ND	U	0.10

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-GW-002
Sample ID: PBOW-05-GW-AA3-GW002-02B
Sample Date: 04/21/2005
Sample Time: 15:15

	Result		DL (ug/l)
2-Amino-4,6-Dinitrotoluene	ND	U	0.13
2-Nitrotoluene	ND	U	0.060
3-Nitrotoluene	ND	U	0.20
4-Amino-2,6-Dinitrotoluene	ND	U	0.14
4-Nitrotoluene	ND	U	0.090
HMX	ND	U	0.13
Nitrobenzene	ND	U	0.14
RDX	ND	U	0.40
Tetryl	ND	U	0.090

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: MK-MW09
Sample ID: PBOW-05-GW-AA2-MKMW09-02B
Sample Date: 04/25/05
Sample Time: 15:15

		Result		DL (ug/l)
SW6020	Aluminum	1010		17.8
	Antimony	ND	U	0.21
	Arsenic	ND	U	0.49
	Barium	26.4		0.26
	Beryllium	0.034	J	0.024
	Cadmium	ND	U	0.085
	Calcium	54500		29.8
	Chromium	1.2	J	0.39
	Cobalt	0.20		0.019
	Copper	3.4	J	0.99
	Iron	998		3.5
	Lead	1.2		0.25
	Magnesium	14900		5.2
	Manganese	6.8		0.23
	Nickel	1.5		0.12
	Potassium	621		24.6
	Selenium	ND	U	0.55
	Silver	ND	U	0.042
	Sodium	2850		24.0
	Thallium	0.42		0.11
	Vanadium	4.6	J	1.8
	Zinc	12.4		0.95
SW7470	Mercury (total)	ND	U	0.10
SW9014	Cyanide	ND	U	5.0
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.15
	PCB-1221 (Aroclor 1221)	ND	U	0.76
	PCB-1232 (Aroclor 1232)	ND	U	0.38
	PCB-1242 (Aroclor 1242)	ND	U	0.48
	PCB-1248 (Aroclor 1248)	ND	U	0.11
	PCB-1254 (Aroclor 1254)	ND	U	0.16
	PCB-1260 (Aroclor 1260)	ND	U	0.22
SW8260	1,1,1-Trichloroethane	ND	U	0.67
	1,1,2,2-Tetrachloroethane	ND	UJ	0.44
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	0.75
	1,1,2-Trichloroethane	ND	U	0.30
	1,1-Dichloroethane	ND	U	0.50
	1,1-Dichloroethene	ND	U	0.57
	1,2,4-Trichlorobenzene	ND	U	0.55
	1,2-Dibromo-3-chloropropane	ND	UJ	0.61
	1,2-Dibromoethane (EDB)	ND	U	0.36
	1,2-Dichlorobenzene	ND	U	0.33
	1,2-Dichloroethane	ND	U	0.36
	1,2-Dichloropropane	ND	U	0.27
	1,3-Dichlorobenzene	ND	U	0.29
	1,4-Dichlorobenzene	ND	U	0.33
	2-Butanone (Methyl ethyl ketone)	ND	UJ	1.2
SW8260 - cont.	2-Hexanone	ND	UJ	0.63
	4-Methyl-2-pentanone (MIBK)	ND	UJ	0.36

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: MK-MW09
Sample ID: PBOW-05-GW-AA2-MKMW09-02B
Sample Date: 04/25/05
Sample Time: 15:15

		Result		DL (ug/l)
	Acetone	12		2.9
	Benzene	ND	U	0.47
	Bromodichloromethane	ND	U	0.43
	Bromoform	ND	U	0.25
	Bromomethane	ND	U	0.46
	Carbon Disulfide	ND	UJ	0.53
	Carbon tetrachloride	ND	U	0.77
	Chlorobenzene	ND	U	0.39
	Chloroethane	ND	U	1.5
	Chloroform	ND	U	0.44
	Chloromethane	ND	U	0.67
	cis-1,2-Dichloroethene	ND	U	0.20
	cis-1,3-Dichloropropene	ND	U	0.34
	Cyclohexane	ND	U	0.55
	Dibromochloromethane	ND	U	0.32
	Dichlorodifluoromethane	ND	U	0.84
	Ethylbenzene	ND	U	0.64
	Isopropylbenzene (Cumene)	ND	U	0.55
	m,p-Xylene (sum of isomers)	ND	U	0.81
	Methyl Acetate	ND	U	2.2
	Methylcyclohexane	ND	U	0.79
	Methylene Chloride	1.1	J	1.1
	o-Xylene (1,2-Dimethylbenzene)	ND	U	0.36
	Styrene	ND	U	0.34
	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.17
	Tetrachloroethene (PCE)	ND	U	1.0
	Toluene	ND	U	0.36
	trans-1,2-Dichloroethene	ND	U	0.59
	trans-1,3-Dichloropropene	ND	U	0.23
	Trichloroethene (TCE)	ND	U	0.46
	Trichlorofluoromethane	ND	U	0.86
	Vinyl chloride	1.5	J	0.92
SW8270	2,2'-Oxybis(1-Chloro)Propane	ND	U	0.95
	2,4,5-Trichlorophenol	ND	U	1.8
	2,4,6-Trichlorophenol	ND	U	2.4
	2,4-Dichlorophenol	ND	U	2.6
	2,4-Dimethylphenol	ND	U	2.5
	2,4-Dinitrophenol	ND	U	3.2
	2,4-Dinitrotoluene	ND	U	1.6
	2,6-Dinitrotoluene	ND	U	0.56
	2-Chloronaphthalene	ND	U	0.69
	2-Chlorophenol	ND	U	1.4
	2-Methylnaphthalene	ND	U	1.1
	2-Methylphenol (o-Cresol)	ND	U	2.3
	2-Nitroaniline	ND	U	1.0
SW8270 - cont.	2-Nitrophenol	ND	U	1.5
	3,3'-Dichlorobenzidine	ND	U	5.0
	3-Nitroaniline	ND	U	2.0
	4,6-Dinitro-2-methylphenol	ND	U	1.7

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: MK-MW09
Sample ID: PBOW-05-GW-AA2-MKMW09-02B
Sample Date: 04/25/05
Sample Time: 15:15

		Result		DL (ug/l)
	4-Bromophenyl phenyl ether	ND	U	0.55
	4-Chloro-3-methylphenol	ND	U	1.9
	4-Chloroaniline	ND	U	1.8
	4-Chlorophenyl phenyl ether	ND	U	1.4
	4-Methylphenol (p-Cresol)	ND	U	1.3
	4-Nitroaniline	ND	U	2.3
	4-Nitrophenol	ND	U	3.0
	Acenaphthene	ND	U	1.3
	Acenaphthylene	ND	U	0.68
	Acetophenone	ND	U	1.0
	Anthracene	ND	U	1.4
	Atrazine	ND	U	1.0
	Benzaldehyde	ND	U	1.0
	Benzo(a)anthracene	ND	U	1.3
	Benzo(a)pyrene	ND	U	1.4
	Benzo(b)fluoranthene	ND	U	2.2
	Benzo(g,h,i)perylene	ND	U	1.9
	Benzo(k)fluoranthene	ND	U	2.1
	Benzyl butyl phthalate	ND	U	1.3
	Biphenyl (Diphenyl)	ND	U	1.0
	bis(2-Chloroethoxy)methane	ND	U	0.60
	bis(2-Chloroethyl)ether	ND	U	1.2
	bis(2-Ethylhexyl)phthalate	ND	U	1.0
	Caprolactam	ND	U	1.0
	Carbazole	ND	U	1.4
	Chrysene	ND	U	1.6
	Dibenz(a,h)anthracene	ND	U	1.7
	Dibenzofuran	ND	U	0.76
	Diethylphthalate	ND	U	5.0
	Dimethylphthalate	ND	U	3.7
	Di-n-butylphthalate	ND	U	1.2
	Di-n-octylphthalate	ND	U	1.3
	Fluoranthene	ND	U	1.6
	Fluorene	ND	U	1.4
	Hexachlorobenzene	ND	U	0.76
	Hexachlorobutadiene	ND	U	0.70
	Hexachlorocyclopentadiene	ND	U	3.5
	Hexachloroethane	ND	U	1.1
	Indeno(1,2,3-cd)pyrene	ND	U	1.7
	Isophorone	ND	U	0.93
	Naphthalene	ND	U	1.2
	Nitrobenzene	ND	U	0.89
	N-Nitroso-di-n-propylamine	ND	U	1.1
	N-Nitrosodiphenylamine	ND	U	0.97
SW8270 - cont.	Pentachlorophenol	ND	U	2.1
	Phenanthrene	ND	U	1.1
	Phenol	ND	U	2.4
	Pyrene	ND	U	1.3
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: MK-MW09
Sample ID: PBOW-05-GW-AA2-MKMW09-02B
Sample Date: 04/25/05
Sample Time: 15:15

	Result		DL (ug/l)
1,3-Dinitrobenzene	ND	U	0.060
2,4,6-Trinitrotoluene	ND	U	0.090
2,4-Dinitrotoluene	ND	U	0.080
2,6-Dinitrotoluene	ND	U	0.10
2-Amino-4,6-Dinitrotoluene	ND	U	0.13
2-Nitrotoluene	ND	U	0.060
3-Nitrotoluene	ND	U	0.20
4-Amino-2,6-Dinitrotoluene	ND	U	0.14
4-Nitrotoluene	ND	U	0.090
HMX	ND	U	0.13
Nitrobenzene	ND	U	0.14
RDX	ND	U	0.40
Tetryl	ND	U	0.090

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-SWSD-03
Sample ID: PBOW-05-SW-AA3-SW03-B
Sample Date: 04/29/05
Sample Time: 11:40

		Result		DL (ug/l)
SW6020	Aluminum	182		17.8
	Antimony	ND	U	0.21
	Arsenic	ND	U	0.49
	Barium	31.0		0.26
	Beryllium	ND	U	0.024
	Cadmium	ND	U	0.085
	Calcium	77800		29.8
	Chromium	ND	U	0.39
	Cobalt	0.18		0.019
	Copper	2.1	J	0.99
	Iron	307		3.5
	Lead	1.0		0.25
	Magnesium	17200		5.2
	Manganese	35.5		0.23
	Nickel	0.78		0.12
	Potassium	1500		24.6
	Selenium	ND	U	0.55
	Silver	ND	U	0.042
	Sodium	2440		24.0
	Thallium	0.31	J	0.11
	Vanadium	ND	U	1.8
	Zinc	3.6	J	0.95
SW7470	Mercury (total)	ND	U	0.10
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.16
	PCB-1221 (Aroclor 1221)	ND	U	0.81
	PCB-1232 (Aroclor 1232)	ND	U	0.41
	PCB-1242 (Aroclor 1242)	ND	U	0.52
	PCB-1248 (Aroclor 1248)	ND	U	0.12
	PCB-1254 (Aroclor 1254)	ND	U	0.17
	PCB-1260 (Aroclor 1260)	ND	U	0.24
SW8260	1,1,1-Trichloroethane	ND	U	0.67
	1,1,2,2-Tetrachloroethane	ND	U	0.44
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	0.75
	1,1,2-Trichloroethane	ND	U	0.30
	1,1-Dichloroethane	ND	U	0.50
	1,1-Dichloroethene	ND	U	0.57
	1,2,4-Trichlorobenzene	ND	U	0.55
	1,2-Dibromo-3-chloropropane	ND	U	0.61
	1,2-Dibromoethane (EDB)	ND	U	0.36
	1,2-Dichlorobenzene	ND	U	0.33
	1,2-Dichloroethane	ND	U	0.36
	1,2-Dichloropropane	ND	U	0.27
	1,3-Dichlorobenzene	ND	U	0.29
	1,4-Dichlorobenzene	ND	U	0.33
	2-Butanone (Methyl ethyl ketone)	ND	U	1.2
	2-Hexanone	ND	U	0.63
SW8260 - cont.	4-Methyl-2-pentanone (Methyl isobul	ND	U	0.36
	Acetone	ND	U	2.9

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-SWSD-03
Sample ID: PBOW-05-SW-AA3-SW03-B
Sample Date: 04/29/05
Sample Time: 11:40

		Result		DL (ug/l)
	Benzene	ND	U	0.47
	Bromodichloromethane	ND	U	0.43
	Bromoform	ND	U	0.25
	Bromomethane	ND	U	0.46
	Carbon Disulfide	ND	U	0.53
	Carbon tetrachloride	ND	U	0.77
	Chlorobenzene	ND	U	0.39
	Chloroethane	ND	U	1.5
	Chloroform	ND	U	0.44
	Chloromethane	ND	U	0.67
	cis-1,2-Dichloroethene	ND	U	0.20
	cis-1,3-Dichloropropene	ND	U	0.34
	Cyclohexane	ND	U	0.55
	Dibromochloromethane	ND	U	0.32
	Dichlorodifluoromethane	ND	U	0.84
	Ethylbenzene	ND	U	0.64
	Isopropylbenzene (Cumene)	ND	U	0.55
	m,p-Xylene (sum of isomers)	ND	U	0.81
	Methyl Acetate	ND	U	2.2
	Methylcyclohexane	ND	U	0.79
	Methylene Chloride	3.7	J	1.1
	o-Xylene (1,2-Dimethylbenzene)	ND	U	0.36
	Styrene	ND	U	0.34
	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.17
	Tetrachloroethene (PCE)	ND	U	1.0
	Toluene	ND	U	0.36
	trans-1,2-Dichloroethene	ND	U	0.59
	trans-1,3-Dichloropropene	ND	U	0.23
	Trichloroethene (TCE)	ND	U	0.46
	Trichlorofluoromethane	ND	U	0.86
	Vinyl chloride	ND	U	0.92
SW8270	2,2'-Oxybis(1-Chloro)Propane	ND	U	1.0
	2,4,5-Trichlorophenol	ND	U	1.8
	2,4,6-Trichlorophenol	ND	U	2.5
	2,4-Dichlorophenol	ND	U	2.8
	2,4-Dinitrophenol	ND	U	3.4
	2,4-Dinitrotoluene	ND	U	1.7
	2,6-Dinitrotoluene	ND	U	0.59
	2-Chloronaphthalene	ND	U	0.73
	2-Chlorophenol	ND	U	1.5
	2-Methylnaphthalene	ND	U	1.2
	2-Methylphenol (o-Cresol)	ND	U	2.5
	2-Nitroaniline	ND	U	1.1
	2-Nitrophenol	ND	U	1.6
	3,3'-Dichlorobenzidine	ND	U	5.3
SW8270 - cont.	3-Nitroaniline	ND	U	2.1
	4,6-Dinitro-2-methylphenol	ND	U	1.8
	4-Bromophenyl phenyl ether	ND	U	0.58
	4-Chloro-3-methylphenol	ND	U	2.0

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-SWSD-03
Sample ID: PBOW-05-SW-AA3-SW03-B
Sample Date: 04/29/05
Sample Time: 11:40

		Result		DL (ug/l)
	4-Chloroaniline	ND	U	1.9
	4-Chlorophenyl phenyl ether	ND	U	1.5
	4-Methylphenol (p-Cresol)	ND	U	1.3
	4-Nitroaniline	ND	U	2.4
	4-Nitrophenol	ND	U	3.2
	Acenaphthene	ND	U	1.4
	Acenaphthylene	ND	U	0.72
	Acetophenone	ND	U	1.1
	Anthracene	ND	U	1.5
	Atrazine	ND	U	1.1
	Benzaldehyde	ND	U	1.1
	Benzo(a)anthracene	ND	U	1.4
	Benzo(a)pyrene	ND	U	1.4
	Benzo(b)fluoranthene	ND	U	2.3
	Benzo(g,h,i)perylene	ND	U	2.0
	Benzo(k)fluoranthene	ND	U	2.2
	Benzyl butyl phthalate	ND	U	1.4
	Biphenyl (Diphenyl)	ND	U	1.1
	bis(2-Chloroethoxy)methane	ND	U	0.63
	bis(2-Chloroethyl)ether (2-Chloroeth	ND	U	1.3
	bis(2-Ethylhexyl)phthalate	2.2	J	1.1
	Caprolactam	ND	U	1.1
	Carbazole	ND	U	1.5
	Chrysene	ND	U	1.7
	Dibenz(a,h)anthracene	ND	U	1.8
	Dibenzofuran	ND	U	0.80
	Diethylphthalate	ND	U	5.2
	Dimethylphthalate	ND	U	3.9
	Di-n-butylphthalate	ND	U	1.2
	Di-n-octylphthalate	ND	U	1.3
	Fluoranthene	ND	U	1.7
	Fluorene	ND	U	1.5
	Hexachlorobenzene	ND	U	0.80
	Hexachlorobutadiene	ND	U	0.74
	Hexachlorocyclopentadiene	ND	U	3.7
	Hexachloroethane	ND	U	1.2
	Indeno(1,2,3-cd)pyrene	ND	U	1.8
	Isophorone	ND	U	0.98
	Naphthalene	ND	U	1.3
	Nitrobenzene	ND	U	0.94
	N-Nitroso-di-n-propylamine	ND	U	1.1
	N-Nitrosodiphenylamine	ND	U	1.0
	Pentachlorophenol	ND	U	2.2
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050
	1,3-Dinitrobenzene	ND	U	0.060
	2,4,6-Trinitrotoluene	ND	U	0.090
	2,4-Dinitrotoluene	ND	U	0.080
	2,6-Dinitrotoluene	ND	U	0.10
	2-Amino-4,6-Dinitrotoluene	ND	U	0.13

Quality Assurance Results - Groundwater Sampling
Acid Areas, Plum Brook Ordnance Works, OH

Location: AA3-SWSD-03
Sample ID: PBOW-05-SW-AA3-SW03-B
Sample Date: 04/29/05
Sample Time: 11:40

	Result		DL (ug/l)
2-Nitrotoluene	ND	U	0.060
3-Nitrotoluene	ND	U	0.20
4-Amino-2,6-Dinitrotoluene	ND	U	0.14
4-Nitrotoluene	ND	U	0.090
HMX	ND	U	0.13
Nitrobenzene	ND	U	0.14
RDX	ND	U	0.40
Tetryl	ND	U	0.090
4-Nitrotoluene	ND	U	0.090
HMX	ND	U	0.13
Nitrobenzene	ND	U	0.14
RDX	ND	U	0.40
Tetryl	ND	U	0.090

ATTACHMENT III – QA/QC DATA COMPARISON

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-GW-002 **(QA Result)**			AA3-GW-002 **(Primary Result**			A3-GW-002 **(Duplicate Result**		
		PBOW-05-GW-AA3-GW002-02B			PBOW-05-GW-AA3-GW002-02A			PBOW-05-GW-AA3-GW002-02D		
		04/21/2005 15:15			04/21/2005 15:15			04/21/2005 15:15		
SW6010	Aluminum	ND	U	17.8	ND	U	100	ND	U	100
	Antimony	ND	U	0.21	ND	U	5	ND	U	5
	Arsenic	**0.74**	J	0.49	ND	U	3	ND	U	3
	Barium	**52.1**		0.26	**55.3**	J	5	**54.7**	J	5
	Beryllium	ND	U	0.024	ND	U	1	ND	U	1
	Cadmium	ND	U	0.085	ND	U	1	ND	U	1
	Calcium	**106000**		29.8	**124000**		1000	**120000**		1000
	Chromium	ND	U	0.39	ND	U	2	ND	U	2
	Cobalt	ND	U	0.019	ND	U	3	ND	U	3
	Copper	**2.1**	J	0.99	ND	U	4	ND	U	4
	Iron	**14.2**		3.5	ND	U	30	ND	U	30
	Lead	ND	U	0.25	ND	U	1.5	ND	U	1.5
	Magnesium	**25800**		5.2	**24900**		500	**24800**		500
	Manganese	**0.72**	J	0.23	ND	U	3	ND	U	3
	Nickel	**0.65**		0.12	ND	U	3	ND	U	3
	Potassium	**476**		24.6	ND	U	500	ND	U	500
	Selenium	ND	U	0.55	ND	U	3	ND	U	3
	Silver	ND	U	0.042	ND	U	1	ND	U	1
	Sodium	**6490**		24.0	**6120**		500	**6000**		500
	Thallium	**0.15**	J	0.11	ND	U	3	ND	U	3
	Vanadium	ND	U	1.8	ND	U	3	ND	U	3
	Zinc	**8.8**		0.95	**11.5**	J	5	**56.7**		5
SW7470	Mercury (total)	ND	U	0.10	**0.091**	J	0.08	ND	U	0.08
SW9012	Cyanide	ND	U	5.0	ND	U	5	ND	U	5
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.17	ND	U	0.13	ND	U	0.12
	PCB-1221 (Aroclor 1221)	ND	U	0.83	ND	U	0.13	ND	U	0.12
	PCB-1232 (Aroclor 1232)	ND	U	0.42	ND	U	0.13	ND	U	0.12
	PCB-1242 (Aroclor 1242)	ND	U	0.53	ND	U	0.13	ND	U	0.12
	PCB-1248 (Aroclor 1248)	ND	U	0.12	ND	U	0.13	ND	U	0.12
	PCB-1254 (Aroclor 1254)	ND	U	0.18	ND	U	0.13	ND	U	0.12
	PCB-1260 (Aroclor 1260)	ND	U	0.24	ND	U	0.13	ND	U	0.12
SW8260	1,1,1-Trichloroethane	ND	U	0.67	ND	U	0.3	ND	U	0.3

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-GW-002 **(QA Result)** PBOW-05-GW-AA3-GW002-02B 04/21/2005 15:15			AA3-GW-002 **(Primary Result** PBOW-05-GW-AA3-GW002-02A 04/21/2005 15:15			A3-GW-002 **(Duplicate Result** PBOW-05-GW-AA3-GW002-02D 04/21/2005 15:15		
	1,1,2,2-Tetrachloroethane	ND	U	0.44	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloro-1,2,2-Trifluor	ND	U	0.75	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloroethane	ND	U	0.30	ND	U	0.2	ND	U	0.2
	1,1-Dichloroethane	ND	U	0.50	ND	U	0.3	ND	U	0.3
	1,1-Dichloroethene	ND	U	0.57	ND	U	0.3	ND	U	0.3
	1,2,4-Trichlorobenzene	ND	U	0.55	ND	U	0.2	ND	U	0.2
	1,2-Dibromo-3-chloropropane	ND	U	0.61	ND	U	0.2	ND	U	0.2
	1,2-Dibromoethane (EDB)	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	1,2-Dichloroethane	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichloropropane	ND	U	0.27	ND	U	0.2	ND	U	0.2
	1,3-Dichlorobenzene	ND	U	0.29	ND	U	0.2	ND	U	0.2
	1,4-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	2-Butanone (Methyl ethyl ket	ND	U	1.2	ND	U	4	ND	U	4
	2-Hexanone	ND	U	0.63	ND	U	1	ND	U	1
	4-Methyl-2-pentanone (MIBK)	ND	U	0.36	ND	U	1	ND	U	1
	Acetone	ND	U	2.9	ND	U	2	ND	U	2
	Benzene	ND	U	0.47	ND	U	0.2	ND	U	0.2
	Bromodichloromethane	ND	U	0.43	ND	U	0.2	ND	U	0.2
	Bromoform	ND	U	0.25	ND	U	0.2	ND	U	0.2
	Bromomethane	ND	U	0.46	ND	U	0.4	ND	U	0.4
	Carbon Disulfide	ND	U	0.53	ND	U	0.3	ND	U	0.3
	Carbon tetrachloride	ND	U	0.77	ND	U	0.3	ND	U	0.3
	Chlorobenzene	ND	U	0.39	ND	U	0.2	ND	U	0.2
	Chloroethane	ND	U	1.5	ND	U	0.3	ND	U	0.3
	Chloroform	ND	U	0.44	ND	U	0.3	ND	U	0.3
	Chloromethane	ND	U	0.67	ND	U	0.4	ND	U	0.4
	cis-1,2-Dichloroethene	ND	U	0.20	ND	U	0.3	ND	U	0.3
	cis-1,3-Dichloropropene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Cyclohexane	ND	U	0.55	ND	U	0.3	ND	U	0.3
	Dibromochloromethane	ND	U	0.32	ND	U	0.2	ND	U	0.2
	Dichlorodifluoromethane	ND	U	0.84	ND	U	0.4	ND	U	0.4
SW8260	Ethylbenzene	ND	U	0.64	ND	U	0.2	ND	U	0.2
	Isopropylbenzene (Cumene)	ND	U	0.55	ND	U	0.2	ND	U	0.2

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-GW-002 **(QA Result)**			AA3-GW-002 **(Primary Result**			A3-GW-002 **(Duplicate Result**		
		PBOW-05-GW-AA3-GW002-02B			PBOW-05-GW-AA3-GW002-02A			PBOW-05-GW-AA3-GW002-02D		
		04/21/2005 15:15			04/21/2005 15:15			04/21/2005 15:15		
	Methyl Acetate	ND	U	2.2	ND	U	0.2	ND	U	0.2
	Methylcyclohexane	ND	U	0.79	ND	U	0.2	ND	U	0.2
	Methylene Chloride	**3.2**	J	1.1	ND	U	0.3	ND	U	0.3
	Styrene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Tert-Butyl Methyl Ether (MTBI	ND	U	0.17	ND	U	0.2	ND	U	0.2
	Tetrachloroethene (PCE)	ND	U	1.0	ND	U	0.3	ND	U	0.3
	Toluene	ND	U	0.36	ND	U	0.2	ND	U	0.2
	trans-1,2-Dichloroethene	ND	U	0.59	ND	U	0.3	ND	U	0.3
	trans-1,3-Dichloropropene	ND	U	0.23	ND	U	0.2	ND	U	0.2
	Trichloroethene (TCE)	ND	U	0.46	ND	U	0.2	ND	U	0.2
	Trichlorofluoromethane	ND	U	0.86	ND	U	0.3	ND	U	0.3
	Vinyl chloride	ND	U	0.92	ND	U	0.5	ND	U	0.5
	Xylenes, Total	ND	U	0.81	ND	U	0.2	ND	U	0.2
SW8270	2,4,5-Trichlorophenol	ND	U	1.8	ND	U	1	ND	U	1
	2,4,6-Trichlorophenol	ND	U	2.4	ND	U	1	ND	U	1
	2,4-Dichlorophenol	ND	U	2.7	ND	U	1	ND	U	1
	2,4-Dinitrophenol	ND	U	3.2	ND	U	10	ND	U	10
	2,4-Dinitrotoluene	ND	U	1.6	ND	U	1	ND	U	1
	2,6-Dinitrotoluene	ND	U	0.57	ND	U	1	ND	U	1
	2-Chloronaphthalene	ND	U	0.70	ND	U	1	ND	U	1
	2-Chlorophenol	ND	U	1.5	ND	U	1	ND	U	1
	2-Methylnaphthalene	ND	U	1.1	ND	U	1	ND	U	1
	2-Methylphenol (o-Cresol)	ND	U	2.4	ND	U	1	ND	U	1
	2-Nitroaniline	ND	U	1.1	ND	U	1	ND	U	1
	2-Nitrophenol	ND	U	1.5	ND	U	1	ND	U	1
	3,3'-Dichlorobenzidine	ND	U	5.1	ND	U	1	ND	U	1
	3-Nitroaniline	ND	U	2.0	ND	U	1	ND	U	1
	4,6-Dinitro-2-methylphenol	ND	U	1.7	ND	U	1	ND	U	1
	4-Bromophenyl phenyl ether	ND	U	0.56	ND	U	1	ND	U	1
	4-Chloro-3-methylphenol	ND	U	2.0	ND	U	1	ND	U	1
SW8270	4-Chloroaniline	ND	U	1.8	ND	U	1	ND	U	1
	4-Chlorophenyl phenyl ether	ND	U	1.4	ND	U	1	ND	U	1
	4-Methylphenol (p-Cresol)	ND	U	1.3	ND	U	1	ND	U	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-GW-002 **(QA Result)**			AA3-GW-002 **(Primary Result**			A3-GW-002 **(Duplicate Result**		
		PBOW-05-GW-AA3-GW002-02B			PBOW-05-GW-AA3-GW002-02A			PBOW-05-GW-AA3-GW002-02D		
		04/21/2005 15:15			04/21/2005 15:15			04/21/2005 15:15		
	4-Nitroaniline	ND	U	2.3	ND	U	1	ND	U	1
	4-Nitrophenol	ND	U	3.0	ND	U	5	ND	U	5.1
	Acenaphthene	ND	U	1.3	ND	U	1	ND	U	1
	Acenaphthylene	ND	U	0.69	ND	U	1	ND	U	1
	Anthracene	ND	U	1.4	ND	U	1	ND	U	1
	Benzo(a)anthracene	ND	U	1.3	ND	U	1	ND	U	1
	Benzo(a)pyrene	ND	U	1.4	ND	U	1	ND	U	1
	Benzo(b)fluoranthene	ND	U	2.2	ND	U	1	ND	U	1
	Benzo(g,h,i)perylene	ND	U	2.0	ND	U	1	ND	U	1
	Benzo(k)fluoranthene	ND	U	2.1	ND	U	1	ND	U	1
	Benzyl butyl phthalate	ND	U	1.3	ND	U	1	ND	U	1
	bis(2-Chloroethoxy)methane	ND	U	0.61	ND	U	1	ND	U	1
	bis(2-Chloroethyl)ether	ND	U	1.2	ND	U	1	ND	U	1
	bis(2-Ethylhexyl)phthalate	ND	U	1.0	ND	U	1	ND	U	1
	Carbazole	ND	U	1.4	ND	U	1	ND	U	1
	Chrysene	ND	U	1.6	ND	U	1	ND	U	1
	Dibenz(a,h)anthracene	ND	U	1.7	ND	U	1	ND	U	1
	Dibenzofuran	ND	U	0.76	ND	U	1	ND	U	1
	Diethylphthalate	ND	U	5.0	ND	U	1	ND	U	1
	Dimethylphthalate	ND	U	3.8	ND	U	1	ND	U	1
	Di-n-butylphthalate	ND	U	1.2	ND	U	1	ND	U	1
	Di-n-octylphthalate	ND	U	1.3	ND	U	1	ND	U	1
	Fluoranthene	ND	U	1.6	ND	U	1	ND	U	1
	Fluorene	ND	U	1.4	ND	U	1	ND	U	1
	Hexachlorobenzene	ND	U	0.76	ND	U	1	ND	U	1
	Hexachlorobutadiene	ND	U	0.71	ND	U	1	ND	U	1
	Hexachlorocyclopentadiene	ND	U	3.6	ND	U	1	ND	U	1
	Hexachloroethane	ND	U	1.1	ND	U	1	ND	U	1
	Indeno(1,2,3-cd)pyrene	ND	U	1.7	ND	U	1	ND	U	1
	Isophorone	ND	U	0.94	ND	U	1	ND	U	1
SW8270	Naphthalene	ND	U	1.2	ND	U	1	ND	U	1
	Nitrobenzene	ND	U	0.90	ND	U	1	ND	U	1
	N-Nitroso-di-n-propylamine	ND	U	1.1	ND	U	0.8	ND	U	0.82
	N-Nitrosodiphenylamine	ND	U	0.98	ND	U	1	ND	U	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-GW-002 **(QA Result)**			AA3-GW-002 **(Primary Result**			A3-GW-002 **(Duplicate Result**		
		PBOW-05-GW-AA3-GW002-02B			PBOW-05-GW-AA3-GW002-02A			PBOW-05-GW-AA3-GW002-02D		
		04/21/2005 15:15			04/21/2005 15:15			04/21/2005 15:15		
	Pentachlorophenol	ND	U	2.1	ND	U	1	ND	U	1
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050	ND	U	0.082	ND	U	0.082
	1,3-Dinitrobenzene	ND	U	0.060	ND	U	0.082	ND	U	0.082
	2,4,6-Trinitrotoluene	ND	U	0.090	ND	U	0.082	ND	U	0.082
	2,4-Dinitrotoluene	ND	U	0.080	ND	U	0.11	ND	U	0.11
	2,6-Dinitrotoluene	ND	U	0.10	ND	U	0.11	ND	U	0.11
	2-Amino-4,6-Dinitrotoluene	ND	U	0.13	ND	U	0.12	ND	U	0.12
	2-Nitrotoluene	ND	U	0.060	ND	U	0.082	ND	U	0.082
	3-Nitrotoluene	ND	U	0.20	ND	U	0.082	ND	U	0.082
	4-Amino-2,6-Dinitrotoluene	ND	U	0.14	ND	U	0.082	ND	U	0.082
	4-Nitrotoluene	ND	U	0.090	ND	U	0.12	ND	U	0.12
	HMX	ND	U	0.13	ND	U	0.082	ND	U	0.082
	Nitrobenzene	ND	U	0.14	ND	U	0.09	ND	U	0.09
	RDX	ND	U	0.40	ND	U	0.082	ND	U	0.082
	Tetryl	ND	U	0.090	ND	U	0.082	ND	U	0.082

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		MK-MW09 **(QA Result)**			MK-MW09 **(Primary Result)**			MK-MW09 **(Duplicate Result)**		
		'BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02		
		04/25/05 15:15			04/25/05 15:15			04/25/05 15:15		
SW6010	Aluminum	**1010**		17.8	**1160**		100	**1160**	J	100
	Antimony	ND	U	0.21	ND	U	5	ND	U	5
	Arsenic	ND	U	0.49	ND	U	3	ND	U	3
	Barium	**26.4**		0.26	**26.1**	J	5	**26.7**	J	5
	Beryllium	**0.034**	J	0.024	ND	U	1	ND	U	1
	Cadmium	ND	U	0.085	ND	U	1	ND	U	1
	Calcium	**54500**		29.8	**53900**		500	**55700**		500
	Chromium	**1.2**	J	0.39	ND	U	2	ND	U	2
	Cobalt	**0.20**		0.019	ND	U	3	ND	U	3
	Copper	**3.4**	J	0.99	ND	U	4	ND	U	4
	Iron	**998**		3.5	**1020**		30	**1030**		30
	Lead	**1.2**		0.25	ND	U	1.5	ND	U	1.5
	Magnesium	**14900**		5.2	**13700**		500	**14100**		500
	Manganese	**6.8**		0.23	**6.6**	J	3	**6.5**	J	3
	Nickel	**1.5**		0.12	ND	U	3	ND	U	3
	Potassium	**621**		24.6	**629**	J	500	**630**	J	500
	Selenium	ND	U	0.55	ND	U	3	ND	U	3
	Silver	ND	U	0.042	ND	U	1	ND	U	1
	Sodium	**2850**		24.0	**2750**		500	**2850**		500
	Thallium	**0.42**		0.11	ND	U	3	ND	U	3
	Vanadium	**4.6**	J	1.8	ND	U	3	ND	U	3
	Zinc	**12.4**		0.95	**10.6**	J	5	**11.7**	J	5
SW7470	Mercury (total)	ND	U	0.10	**0.091**	J	0.08	ND	U	0.08
SW9012	Cyanide	ND	U	5.0	ND	U	5	ND	U	5
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.15	ND	U	0.12	ND	U	0.12
	PCB-1221 (Aroclor 1221)	ND	U	0.76	ND	U	0.12	ND	U	0.12
	PCB-1232 (Aroclor 1232)	ND	U	0.38	ND	U	0.12	ND	U	0.12
	PCB-1242 (Aroclor 1242)	ND	U	0.48	ND	U	0.12	ND	U	0.12
	PCB-1248 (Aroclor 1248)	ND	U	0.11	ND	U	0.12	ND	U	0.12
	PCB-1254 (Aroclor 1254)	ND	U	0.16	ND	U	0.12	ND	U	0.12
	PCB-1260 (Aroclor 1260)	ND	U	0.22	ND	U	0.12	ND	U	0.12
SW8260	1,1,1-Trichloroethane	ND	U	0.67	ND	U	0.3	ND	U	0.3

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		MK-MW09 **(QA Result)**			MK-MW09 **(Primary Result)**			MK-MW09 **(Duplicate Result)**		
		'BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02		
		04/25/05 15:15			04/25/05 15:15			04/25/05 15:15		
	1,1,2,2-Tetrachloroethane	ND	UJ	0.44	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloro-1,2,2-Trifluor(	ND	U	0.75	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloroethane	ND	U	0.30	ND	U	0.2	ND	U	0.2
	1,1-Dichloroethane	ND	U	0.50	ND	U	0.3	ND	U	0.3
	1,1-Dichloroethene	ND	U	0.57	ND	U	0.3	ND	U	0.3
	1,2,4-Trichlorobenzene	ND	U	0.55	ND	U	0.2	ND	U	0.2
	1,2-Dibromo-3-chloropropane	ND	U	0.61	ND	U	0.2	ND	U	0.2
	1,2-Dibromoethane (EDB)	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	1,2-Dichloroethane	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichloropropane	ND	U	0.27	ND	U	0.2	ND	U	0.2
	1,3-Dichlorobenzene	ND	U	0.29	ND	U	0.2	ND	U	0.2
	1,4-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	2-Butanone (Methyl ethyl ket	ND	UJ	1.2	ND	U	4	ND	U	4
	2-Hexanone	ND	UJ	0.63	ND	U	1	ND	U	1
	4-Methyl-2-pentanone (MIBK)	ND	UJ	0.36	ND	U	1	ND	U	1
	Acetone	**12**		2.9	ND	U	2	ND	U	2
	Benzene	ND	U	0.47	ND	U	0.2	ND	U	0.2
	Bromodichloromethane	ND	U	0.43	ND	U	0.2	ND	U	0.2
	Bromoform	ND	U	0.25	ND	U	0.2	ND	U	0.2
	Bromomethane	ND	U	0.46	ND	UJ	0.4	ND	UJ	0.4
	Carbon Disulfide	ND	UJ	0.53	ND	U	0.3	ND	U	0.3
	Carbon tetrachloride	ND	U	0.77	ND	U	0.3	ND	U	0.3
	Chlorobenzene	ND	U	0.39	ND	U	0.2	ND	U	0.2
	Chloroethane	ND	U	1.5	ND	U	0.3	ND	U	0.3
	Chloroform	ND	U	0.44	ND	U	0.3	ND	U	0.3
	Chloromethane	ND	U	0.67	ND	UJ	0.4	ND	UJ	0.4
	cis-1,2-Dichloroethene	ND	U	0.20	ND	U	0.3	ND	U	0.3
	cis-1,3-Dichloropropene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Cyclohexane	ND	U	0.55	ND	U	0.3	ND	U	0.3
	Dibromochloromethane	ND	U	0.32	ND	U	0.2	ND	U	0.2
	Dichlorodifluoromethane	ND	U	0.84	ND	U	0.4	ND	U	0.4
SW8260	Ethylbenzene	ND	U	0.64	ND	U	0.2	ND	U	0.2
	Isopropylbenzene (Cumene)	ND	U	0.55	ND	U	0.2	ND	U	0.2

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		MK-MW09 **(QA Result)**			MK-MW09 **(Primary Result)**			MK-MW09 **(Duplicate Result)**		
		'BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02		
		04/25/05 15:15			04/25/05 15:15			04/25/05 15:15		
	Methyl Acetate	ND	U	2.2	ND	U	0.2	ND	U	0.2
	Methylcyclohexane	ND	U	0.79	ND	U	0.2	ND	U	0.2
	Methylene Chloride	**1.1**	J	1.1	ND	U	0.3	ND	U	0.3
	Styrene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Tert-Butyl Methyl Ether (MTBI	ND	U	0.17	ND	U	0.2	ND	U	0.2
	Tetrachloroethene (PCE)	ND	U	1.0	ND	U	0.3	ND	U	0.3
	Toluene	ND	U	0.36	ND	U	0.2	ND	U	0.2
	trans-1,2-Dichloroethene	ND	U	0.59	ND	U	0.3	ND	U	0.3
	trans-1,3-Dichloropropene	ND	U	0.23	ND	U	0.2	ND	U	0.2
	Trichloroethene (TCE)	ND	U	0.46	ND	U	0.2	ND	U	0.2
	Trichlorofluoromethane	ND	U	0.86	ND	U	0.3	ND	U	0.3
	Vinyl chloride	**1.5**	J	0.92	ND	U	0.5	ND	U	0.5
	Xylenes, Total	ND	U	0.81	ND	U	0.2	ND	U	0.2
SW8270	2,4,5-Trichlorophenol	ND	U	1.8	ND	UJ	1	ND	UJ	1
	2,4,6-Trichlorophenol	ND	U	2.4	ND	UJ	1	ND	UJ	1
	2,4-Dichlorophenol	ND	U	2.6	ND	UJ	1	ND	UJ	1
	2,4-Dimethylphenol	ND	U	2.5	ND	UJ	1	ND	UJ	1
	2,4-Dinitrophenol	ND	U	3.2	ND	UJ	1	ND	UJ	1
	2,4-Dinitrotoluene	ND	U	1.6	ND	UJ	1	ND	UJ	1
	2,6-Dinitrotoluene	ND	U	0.56	ND	UJ	1	ND	UJ	1
	2-Chloronaphthalene	ND	U	0.69	ND	UJ	1	ND	UJ	1
	2-Chlorophenol	ND	U	1.4	ND	UJ	1	ND	UJ	1
	2-Methylnaphthalene	ND	U	1.1	ND	UJ	1	ND	UJ	1
	2-Methylphenol (o-Cresol)	ND	U	2.3	ND	UJ	1	ND	UJ	1
	2-Nitroaniline	ND	U	1.0	ND	UJ	1	ND	UJ	1
	2-Nitrophenol	ND	U	1.5	ND	UJ	1	ND	UJ	1
	3,3'-Dichlorobenzidine	ND	U	5.0	ND	UJ	1	ND	UJ	1
	3-Nitroaniline	ND	U	2.0	ND	UJ	1	ND	UJ	1
	4,6-Dinitro-2-methylphenol	ND	U	1.7	ND	UJ	1	ND	UJ	1
	4-Bromophenyl phenyl ether	ND	U	0.55	ND	UJ	1	ND	UJ	1
SW8270	4-Chloro-3-methylphenol	ND	U	1.9	ND	UJ	1	ND	UJ	1
	4-Chloroaniline	ND	U	1.8	ND	UJ	1	ND	UJ	1
	4-Chlorophenyl phenyl ether	ND	U	1.4	ND	UJ	1	ND	UJ	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		MK-MW09 **(QA Result)**			MK-MW09 **(Primary Result)**			MK-MW09 **(Duplicate Result)**		
		'BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02		
		04/25/05 15:15			04/25/05 15:15			04/25/05 15:15		
	4-Methylphenol (p-Cresol)	ND	U	1.3	ND	UJ	1	ND	UJ	1
	4-Nitroaniline	ND	U	2.3	ND	UJ	1	ND	UJ	1
	4-Nitrophenol	ND	U	3.0	ND	UJ	5	ND	UJ	5.1
	Acenaphthene	ND	U	1.3	ND	UJ	1	ND	UJ	1
	Acenaphthylene	ND	U	0.68	ND	UJ	1	ND	UJ	1
	Anthracene	ND	U	1.4	ND	UJ	1	ND	UJ	1
	Benzaldehyde	ND	U	1.0	ND	UJ	1	ND	UJ	1
	Benzo(a)anthracene	ND	U	1.3	ND	UJ	1	ND	UJ	1
	Benzo(a)pyrene	ND	U	1.4	ND	UJ	1	ND	UJ	1
	Benzo(b)fluoranthene	ND	U	2.2	ND	UJ	1	ND	UJ	1
	Benzo(g,h,i)perylene	ND	U	1.9	ND	UJ	1	ND	UJ	1
	Benzo(k)fluoranthene	ND	U	2.1	ND	UJ	1	ND	UJ	1
	Benzyl butyl phthalate	ND	U	1.3	ND	UJ	1	ND	UJ	1
	Biphenyl (Diphenyl)	ND	U	1.0	ND	UJ	1	ND	UJ	1
	bis(2-Chloroethoxy)methane	ND	U	0.60	ND	UJ	1	ND	UJ	1
	bis(2-Chloroethyl)ether (2-Cl	ND	U	1.2	ND	UJ	1	ND	UJ	1
	bis(2-Ethylhexyl)phthalate	ND	U	1.0	ND	UJ	1	ND	UJ	1
	Carbazole	ND	U	1.4	ND	UJ	1	ND	UJ	1
	Chrysene	ND	U	1.6	ND	UJ	1	ND	UJ	1
	Dibenz(a,h)anthracene	ND	U	1.7	ND	UJ	1	ND	UJ	1
	Dibenzofuran	ND	U	0.76	ND	UJ	1	ND	UJ	1
	Diethylphthalate	ND	U	5.0	ND	UJ	1	ND	UJ	1
	Dimethylphthalate	ND	U	3.7	ND	UJ	1	ND	UJ	1
	Di-n-butylphthalate	ND	U	1.2	ND	UJ	1	ND	UJ	1
	Di-n-octylphthalate	ND	U	1.3	ND	UJ	1	ND	UJ	1
	Fluoranthene	ND	U	1.6	ND	UJ	1	ND	UJ	1
	Fluorene	ND	U	1.4	ND	UJ	1	ND	UJ	1
	Hexachlorobenzene	ND	U	0.76	ND	UJ	1	ND	UJ	1
	Hexachlorobutadiene	ND	U	0.70	ND	UJ	1	ND	UJ	1
	Hexachlorocyclopentadiene	ND	U	3.5	ND	UJ	1	ND	UJ	1
SW8270	Hexachloroethane	ND	U	1.1	ND	UJ	1	ND	UJ	1
	Indeno(1,2,3-cd)pyrene	ND	U	1.7	ND	UJ	1	ND	UJ	1
	Isophorone	ND	U	0.93	ND	UJ	1	ND	UJ	1
	Naphthalene	ND	U	1.2	ND	UJ	1	ND	UJ	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		MK-MW09 **(QA Result)**			MK-MW09 **(Primary Result)**			MK-MW09 **(Duplicate Result)**		
		'BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02			BOW-05-GW-AA2-MKMW09-02		
		04/25/05 15:15			04/25/05 15:15			04/25/05 15:15		
	Nitrobenzene	ND	U	0.89	ND	UJ	1	ND	UJ	1
	N-Nitroso-di-n-propylamine	ND	U	1.1	ND	UJ	0.8	ND	UJ	0.82
	N-Nitrosodiphenylamine	ND	U	0.97	ND	UJ	1	ND	UJ	1
	Pentachlorophenol	ND	U	2.1	ND	UJ	1	ND	UJ	1
	Phenanthrene	ND	U	1.1	ND	UJ	1	ND	UJ	1
	Phenol	ND	U	2.4	ND	UJ	1	ND	UJ	1
	Pyrene	ND	U	1.3	ND	UJ	1	ND	UJ	1
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050	ND	U	0.086	ND	U	0.088
	1,3-Dinitrobenzene	ND	U	0.060	ND	U	0.086	ND	U	0.088
	2,4,6-Trinitrotoluene	ND	U	0.090	ND	U	0.086	ND	U	0.088
	2,4-Dinitrotoluene	ND	U	0.080	ND	U	0.11	ND	U	0.11
	2,6-Dinitrotoluene	ND	U	0.10	ND	U	0.11	ND	U	0.11
	2-Amino-4,6-Dinitrotoluene	ND	U	0.13	ND	U	0.13	ND	U	0.13
	2-Nitrotoluene	ND	U	0.060	ND	U	0.086	ND	U	0.088
	3-Nitrotoluene	ND	U	0.20	ND	U	0.086	ND	U	0.088
	4-Amino-2,6-Dinitrotoluene	ND	U	0.14	ND	U	0.086	ND	U	0.088
	4-Nitrotoluene	ND	U	0.090	ND	U	0.13	ND	U	0.13
	HMX	ND	U	0.13	ND	U	0.086	ND	U	0.088
	Nitrobenzene	ND	U	0.14	ND	U	0.095	ND	U	0.097
	RDX	ND	U	0.40	ND	U	0.086	ND	U	0.088
	Tetryl	ND	U	0.090	ND	U	0.086	ND	U	0.088

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-SWSD-03 **(QA Result)**			A3-SWSD-03 **(Primary Result**			A3-SWSD-03 **(Duplicate Resul**		
		PBOW-05-SW-AA3-SW03-B			PBOW-05-SW-AA3-SW03-A			PBOW-05-SW-AA3-SW03-D		
		04/29/05			04/29/05			04/29/05		
		11:40			11:40			11:40		
SW6010	Aluminum	**182**		17.8	**404**	J	100	**244**	J	100
	Antimony	ND	U	0.21	ND	U	5	ND	U	5
	Arsenic	ND	U	0.49	ND	U	3	ND	U	3
	Barium	**31.0**		0.26	**39**	J	5	**31.6**	J	5
	Beryllium	ND	U	0.024	ND	U	1	ND	U	1
	Cadmium	ND	U	0.085	ND	U	1	ND	U	1
	Calcium	**77800**		29.8	**88800**		500	**82900**		500
	Chromium	ND	U	0.39	ND	U	2	ND	U	2
	Cobalt	**0.18**		0.019	ND	U	3	ND	U	3
	Copper	**2.1**	J	0.99	ND	U	4	ND	U	4
	Iron	**307**		3.5	**644**	J	30	**307**	J	30
	Lead	**1.0**		0.25	ND	U	1.5	ND	U	1.5
	Magnesium	**17200**		5.2	**17300**		500	**16900**		500
	Manganese	**35.5**		0.23	**147**	J	3	**41.2**	J	3
	Nickel	**0.78**		0.12	ND	U	3	ND	U	3
	Potassium	**1500**		24.6	**1820**	J	500	**1560**	J	500
	Selenium	ND	U	0.55	ND	U	3	ND	U	3
	Silver	ND	U	0.042	ND	U	1	ND	U	1
	Sodium	**2440**		24.0	**2530**		500	**2510**		500
	Thallium	**0.31**	J	0.11	ND	U	3	ND	U	3
	Vanadium	ND	U	1.8	ND	U	3	ND	U	3
	Zinc	**3.6**	J	0.95	ND	U	5	ND	U	5
SW7470	Mercury (total)	ND	U	0.10	ND	U	0.08	ND	U	0.08
SW8082	PCB-1016 (Aroclor 1016)	ND	U	0.16	ND	U	0.13	ND	U	0.13
	PCB-1221 (Aroclor 1221)	ND	U	0.81	ND	U	0.13	ND	U	0.13
	PCB-1232 (Aroclor 1232)	ND	U	0.41	ND	U	0.13	ND	U	0.13
	PCB-1242 (Aroclor 1242)	ND	U	0.52	ND	U	0.13	ND	U	0.13
	PCB-1248 (Aroclor 1248)	ND	U	0.12	ND	U	0.13	ND	U	0.13
	PCB-1254 (Aroclor 1254)	ND	U	0.17	ND	U	0.13	ND	U	0.13
	PCB-1260 (Aroclor 1260)	ND	U	0.24	ND	U	0.13	ND	U	0.13
SW8260	1,1,1-Trichloroethane	ND	U	0.67	ND	U	0.3	ND	U	0.3

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-SWSD-03 **(QA Result)**			A3-SWSD-03 **(Primary Result**			A3-SWSD-03 **(Duplicate Resul**		
		PBOW-05-SW-AA3-SW03-B			PBOW-05-SW-AA3-SW03-A			PBOW-05-SW-AA3-SW03-D		
		04/29/05			04/29/05			04/29/05		
		11:40			11:40			11:40		
	1,1,2,2-Tetrachloroethane	ND	U	0.44	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloro-1,2,2-Trifluoroe	ND	U	0.75	ND	U	0.2	ND	U	0.2
	1,1,2-Trichloroethane	ND	U	0.30	ND	U	0.2	ND	U	0.2
	1,1-Dichloroethane	ND	U	0.50	ND	U	0.3	ND	U	0.3
	1,1-Dichloroethene	ND	U	0.57	ND	U	0.3	ND	U	0.3
	1,2,4-Trichlorobenzene	ND	U	0.55	ND	U	0.2	ND	U	0.2
	1,2-Dibromo-3-chloropropane	ND	U	0.61	ND	U	0.2	ND	U	0.2
	1,2-Dibromoethane (EDB)	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	1,2-Dichloroethane	ND	U	0.36	ND	U	0.2	ND	U	0.2
	1,2-Dichloropropane	ND	U	0.27	ND	U	0.2	ND	U	0.2
	1,3-Dichlorobenzene	ND	U	0.29	ND	U	0.2	ND	U	0.2
	1,4-Dichlorobenzene	ND	U	0.33	ND	U	0.2	ND	U	0.2
	2-Butanone (Methyl ethyl keton	ND	U	1.2	ND	U	4	ND	U	4
	2-Hexanone	ND	U	0.63	ND	U	1	ND	U	1
	4-Methyl-2-pentanone (MIBK)	ND	U	0.36	ND	U	1	ND	U	1
	Acetone	ND	U	2.9	ND	UJ	2	ND	UJ	2
	Benzene	ND	U	0.47	ND	U	0.2	ND	U	0.2
	Bromodichloromethane	ND	U	0.43	ND	U	0.2	ND	U	0.2
	Bromoform	ND	U	0.25	ND	U	0.2	ND	U	0.2
	Bromomethane	ND	U	0.46	ND	UJ	0.4	ND	UJ	0.4
	Carbon Disulfide	ND	U	0.53	ND	U	0.3	ND	U	0.3
	Carbon tetrachloride	ND	U	0.77	ND	U	0.3	ND	U	0.3
	Chlorobenzene	ND	U	0.39	ND	U	0.2	ND	U	0.2
	Chloroethane	ND	U	1.5	ND	U	0.3	ND	U	0.3
	Chloroform	ND	U	0.44	ND	U	0.3	ND	U	0.3
	Chloromethane	ND	U	0.67	ND	UJ	0.4	ND	UJ	0.4
	cis-1,2-Dichloroethene	ND	U	0.20	ND	U	0.3	ND	U	0.3
	cis-1,3-Dichloropropene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Cyclohexane	ND	U	0.55	ND	U	0.3	ND	U	0.3
	Dibromochloromethane	ND	U	0.32	ND	U	0.2	ND	U	0.2
	Dichlorodifluoromethane	ND	U	0.84	ND	U	0.4	ND	U	0.4
SW8260	Ethylbenzene	ND	U	0.64	ND	U	0.2	ND	U	0.2
	Isopropylbenzene (Cumene)	ND	U	0.55	ND	U	0.2	ND	U	0.2

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-SWSD-03 **(QA Result)**			A3-SWSD-03 **(Primary Result**			A3-SWSD-03 **(Duplicate Resul**		
		PBOW-05-SW-AA3-SW03-B			PBOW-05-SW-AA3-SW03-A			PBOW-05-SW-AA3-SW03-D		
		04/29/05			04/29/05			04/29/05		
		11:40			11:40			11:40		
	Methyl Acetate	ND	U	2.2	ND	U	0.2	ND	U	0.2
	Methylcyclohexane	ND	U	0.79	ND	U	0.2	ND	U	0.2
	Methylene Chloride	**3.7**	J	1.1	ND	U	0.3	ND	U	0.3
	Styrene	ND	U	0.34	ND	U	0.2	ND	U	0.2
	Tert-Butyl Methyl Ether (MTBE)	ND	U	0.17	ND	U	0.2	ND	U	0.2
	Tetrachloroethene (PCE)	ND	U	1.0	ND	U	0.3	ND	U	0.3
	Toluene	ND	U	0.36	ND	U	0.2	ND	U	0.2
	trans-1,2-Dichloroethene	ND	U	0.59	ND	U	0.3	ND	U	0.3
	trans-1,3-Dichloropropene	ND	U	0.23	ND	U	0.2	ND	U	0.2
	Trichloroethene (TCE)	ND	U	0.46	ND	U	0.2	ND	U	0.2
	Trichlorofluoromethane	ND	U	0.86	ND	U	0.3	ND	U	0.3
	Vinyl chloride	ND	U	0.92	ND	U	0.5	ND	U	0.5
	Xylenes, Total	ND	U	0.81	ND	U	0.2	ND	U	0.2
SW8270	2,4,5-Trichlorophenol	ND	U	1.8	ND	UJ	1.1	ND	UJ	1
	2,4,6-Trichlorophenol	ND	U	2.5	ND	UJ	1.1	ND	UJ	1
	2,4-Dichlorophenol	ND	U	2.8	ND	UJ	1.1	ND	UJ	1
	2,4-Dinitrophenol	ND	U	3.4	ND	UJ	11	ND	UJ	10
	2,4-Dinitrotoluene	ND	U	1.7	ND	U	1.1	ND	UJ	1
	2,6-Dinitrotoluene	ND	U	0.59	ND	U	1.1	ND	UJ	1
	2-Chloronaphthalene	ND	U	0.73	ND	U	1.1	ND	UJ	1
	2-Chlorophenol	ND	U	1.5	ND	UJ	1.1	ND	UJ	1
	2-Methylnaphthalene	ND	U	1.2	ND	U	1.1	ND	UJ	1
	2-Methylphenol (o-Cresol)	ND	U	2.5	ND	UJ	1.1	ND	UJ	1
	2-Nitroaniline	ND	U	1.1	ND	U	1.1	ND	UJ	1
	2-Nitrophenol	ND	U	1.6	ND	UJ	1.1	ND	UJ	1
	3,3'-Dichlorobenzidine	ND	U	5.3	ND	U	1.1	ND	UJ	1
	3-Nitroaniline	ND	U	2.1	ND	U	1.1	ND	UJ	1
	4,6-Dinitro-2-methylphenol	ND	U	1.8	ND	UJ	1.1	ND	UJ	1
	4-Bromophenyl phenyl ether	ND	U	0.58	ND	U	1.1	ND	UJ	1
	4-Chloro-3-methylphenol	ND	U	2.0	ND	UJ	1.1	ND	UJ	1
SW8270	4-Chloroaniline	ND	U	1.9	ND	U	1.1	ND	UJ	1
	4-Chlorophenyl phenyl ether	ND	U	1.5	ND	U	1.1	ND	UJ	1
	4-Methylphenol (p-Cresol)	ND	U	1.3	ND	UJ	1.1	ND	UJ	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-SWSD-03 **(QA Result)**			A3-SWSD-03 **(Primary Result**			A3-SWSD-03 **(Duplicate Resul**		
		PBOW-05-SW-AA3-SW03-B			PBOW-05-SW-AA3-SW03-A			PBOW-05-SW-AA3-SW03-D		
		04/29/05			04/29/05			04/29/05		
		11:40			11:40			11:40		
	4-Nitroaniline	ND	U	2.4	ND	U	1.1	ND	UJ	1
	4-Nitrophenol	ND	U	3.2	ND	UJ	5.4	ND	UJ	5.2
	Acenaphthene	ND	U	1.4	ND	U	1.1	ND	UJ	1
	Acenaphthylene	ND	U	0.72	ND	U	1.1	ND	UJ	1
	Anthracene	ND	U	1.5	ND	U	1.1	ND	UJ	1
	Benzaldehyde	ND	U	1.1	ND	U	1.1	ND	UJ	1
	Benzo(a)anthracene	ND	U	1.4	ND	U	1.1	ND	UJ	1
	Benzo(a)pyrene	ND	U	1.4	ND	U	1.1	ND	UJ	1
	Benzo(b)fluoranthene	ND	U	2.3	ND	U	1.1	ND	UJ	1
	Benzo(g,h,i)perylene	ND	U	2.0	ND	U	1.1	ND	UJ	1
	Benzo(k)fluoranthene	ND	U	2.2	ND	U	1.1	ND	UJ	1
	Benzyl butyl phthalate	ND	U	1.4	ND	U	1.1	ND	UJ	1
	Biphenyl (Diphenyl)	ND	U	1.1	ND	U	1.1	ND	UJ	1
	bis(2-Chloroethoxy)methane	ND	U	0.63	ND	U	1.1	ND	UJ	1
	bis(2-Chloroethyl)ether	ND	U	1.3	ND	U	1.1	ND	UJ	1
	bis(2-Ethylhexyl)phthalate	**2.2**	J	1.1	ND	U	1.1	ND	UJ	1
	Caprolactam	ND	U	1.1	ND	U	1.1	ND	UJ	1
	Carbazole	ND	U	1.5	ND	U	1.1	ND	UJ	1
	Chrysene	ND	U	1.7	ND	U	1.1	ND	UJ	1
	Dibenz(a,h)anthracene	ND	U	1.8	ND	U	1.1	ND	UJ	1
	Dibenzofuran	ND	U	0.80	ND	U	1.1	ND	UJ	1
	Diethylphthalate	ND	U	5.2	ND	U	1.1	ND	UJ	1
	Dimethylphthalate	ND	U	3.9	ND	U	1.1	ND	UJ	1
	Di-n-butylphthalate	ND	U	1.2	ND	U	1.1	ND	UJ	1
	Di-n-octylphthalate	ND	U	1.3	ND	U	1.1	ND	UJ	1
	Fluoranthene	ND	U	1.7	ND	U	1.1	ND	UJ	1
	Fluorene	ND	U	1.5	ND	U	1.1	ND	UJ	1
	Hexachlorobenzene	ND	U	0.80	ND	U	1.1	ND	UJ	1
	Hexachlorobutadiene	ND	U	0.74	ND	U	1.1	ND	UJ	1
	Hexachlorocyclopentadiene	ND	U	3.7	ND	U	1.1	ND	UJ	1
	Hexachloroethane	ND	U	1.2	ND	U	1.1	ND	UJ	1
SW8270	Indeno(1,2,3-cd)pyrene	ND	U	1.8	ND	U	1.1	ND	UJ	1
	Isophorone	ND	U	0.98	ND	U	1.1	ND	UJ	1
	Naphthalene	ND	U	1.3	ND	U	1.1	ND	UJ	1

DATA COMPARISON RESULTS - GROUNDWATER SAMPLING
ACID AREAS, PLUM BROOK ORDNANCE WORKS, OH

		AA3-SWSD-03 **(QA Result)** PBOW-05-SW-AA3-SW03-B 04/29/05 11:40			A3-SWSD-03 **(Primary Result** PBOW-05-SW-AA3-SW03-A 04/29/05 11:40			A3-SWSD-03 **(Duplicate Resul** PBOW-05-SW-AA3-SW03-D 04/29/05 11:40		
	Nitrobenzene	ND	U	0.94	ND	U	1.1	ND	UJ	1
	N-Nitroso-di-n-propylamine	ND	U	1.1	ND	U	0.87	ND	UJ	0.83
	N-Nitrosodiphenylamine	ND	U	1.0	ND	U	1.1	ND	UJ	1
	Pentachlorophenol	ND	U	2.2	ND	UJ	1.1	ND	UJ	1
SW8330	1,3,5-Trinitrobenzene	ND	U	0.050	ND	U	0.088	ND	U	0.083
	1,3-Dinitrobenzene	ND	U	0.060	ND	U	0.088	ND	U	0.083
	2,4,6-Trinitrotoluene	ND	U	0.090	ND	U	0.088	ND	U	0.083
	2,4-Dinitrotoluene	ND	U	0.080	ND	U	0.11	ND	U	0.11
	2,6-Dinitrotoluene	ND	U	0.10	ND	U	0.11	ND	U	0.11
	2-Amino-4,6-Dinitrotoluene	ND	U	0.13	ND	U	0.13	ND	U	0.12
	2-Nitrotoluene	ND	U	0.060	ND	U	0.088	ND	U	0.083
	3-Nitrotoluene	ND	U	0.20	ND	U	0.088	ND	U	0.083
	4-Amino-2,6-Dinitrotoluene	ND	U	0.14	ND	U	0.088	ND	U	0.083
	4-Nitrotoluene	ND	U	0.090	ND	U	0.13	ND	U	0.12
	HMX	ND	U	0.13	ND	U	0.088	ND	U	0.083
	Nitrobenzene	ND	U	0.14	ND	U	0.097	ND	U	0.092
	RDX	ND	U	0.40	ND	U	0.088	ND	U	0.083
	Tetryl	ND	U	0.090	ND	U	0.088	ND	U	0.083

Appendix L

Response to comments on the Draft Site Characterization Report

SUBJECT: Response to review comments for the Interim Final Site Characterization Report, Remedial Investigation, Part 1, at Acid Area 2 & 3, Former Plum Brook Ordnance Works (PBOW), Sandusky, OH, August 2005, Prepared by Jacobs Engineering Group, Inc., Contract Number DACW62-03-D-0004-0004

Reviewer: Jim Beaujon, USACE CELRN

1. **Please correct right hand footer which currently reads-"Issued: August 2005".**

Response: The production date has been revised accordingly for the final version.

2. **Page ix, 1st paragraph: In the third line for clarity please change appropriate to read- "The scope of this Part 1 document". I believe we intend Part 2 to be the Risk Assessments and then Part 3 will be the FS, if necessary.**

Response: The clarification was added as requested.

3. **Page ix, last paragraph and continuing on to page x: Each Acid Area is a separate AOC and the data from each will be evaluated in separate risk assessments thus it would seem more appropriate to summarize the number of surface water and sediment samples from each site separately rather than as though the two sites will be treated as one data set. The presentation of the soils information in the fifth paragraph is a good model.**

Response: The summary of the surface water and sediment sampling has been revised to address each area separately.

4. **Page 1-1, Section 1.1.2, 2nd paragraph, 2nd sentence: Change appropriate to read- "are not being utilized, with the exception of the remaining buildings which are being used for storage."**

Response: The text was revised as requested.

5. **Page 1-4 and elsewhere in the document: When presenting the individual names of the PAHs I believe the convention is for the post parentheses part of the name to remain lower case rather than being capitalized. Thus rather than Benzo(a)Anthracene it should be Benzo(a)anthracene, etc.**

Response: The capitalization was corrected for all listed chemical compounds with (a), (b), (a,h), and (1,2,3-cd) as part of the name.

6. **Page 1-6, 2nd line: The "well" labeled AA3-BEDGW-0004 was and remains dry so it has not been developed or slug tested. Please make the necessary corrections to the text.**

Response: The exception for monitoring well AA3-BEDGW-004 was included in the text.

7. **Page 2-1, Section 2.1, 3rd paragraph, 5th line: Rather than "Round 1" change to read something like- "during the first round of groundwater sampling in January 2005".**

Response: The requested change to the text was made.

8. **Page 2-3, 1st paragraph: For clarity consider replacing the 2nd sentence with- "Thickness of the Delaware limestone underlying AA2 is unknown since the deepest well penetrating the Delaware at AA2 was terminated at 52 ft bgs." Also, further down in the paragraph there is a typo- "between The Delaware"**

Response: The requested change to the text was made.

9. **Page 2-3, Section 2.3.1, 2nd paragraph: There is a typo in the third line- "Ohio shale" should be "Ohio Shale".**

Response: The text has been corrected.

10. **Page 2-6, Section 2.5 and references to Tables 2-1 and 2-2: The text and table headings imply only the data from 1971-2000 was utilized, however, the tables include entries for years outside that range. Please reconcile the discrepancy.**

Response: The text and table headings were revised to reflect data through 2001.

11. **Page 3-7, end of 1st paragraph on page: Please update as appropriate.**

Response: The text was revised to indicate purge records from round 2 are provided in the Round 2 Report dated April 2006.

12. **Page 3-9, paragraph just before Section 3.6, 4th line: Change "bath" to "both".**

Response: The error was corrected

13. **Page 3-10, last sentence on page: Please update as appropriate.**

Response: The text has been updated

14. **Page 3-11, Section 3.9: Change "Attachment II" to "Attachment 2". Also, move the sentence beginning on the 7th line with "The Chemical Quality Assurance Reports detail ..." to the end of the paragraph.**

Response: The requested changes were made.

15. **Page 3-11, Section 3.9.1, 2nd paragraph: For clarity please change "Ecology and Environment" to "Ecology and Environment, Inc.".**

Response: The requested change was made.

16. **Figures presenting the distribution of contaminants exceeding PRG's: Because the concentration values are not all in the same units (e.g. some are mg/kg others ?g/kg, etc.) please include the units for the PRG and Bkg. Values. Or set up a "Units" column which will indicate that all the values in that row are of that unit.**

Response: Because of the numerous data boxes, space is limited. Jacobs made a conscious decision to maintain the 11" x 17" figure size rather than a folded C-size drawing in a plastic sleeve, to make the figures easier on the reader. Font size was reduced as well as unnecessary data columns. Jacobs recommends providing a note in the legend to indicate that background and PRG values are in the same units as the sample value provided, rather than increasing the space for the data boxes.

17. **Figures 4-3 and 4-4: The Area of Detail map lacks the red box indicating where Acid Area 3 is on the PBOW site.**

Response: The figures have been revised as requested.

18. **Figure 6-3: Given that this figure presents both sediment and surface water data and even though the surface water data is clearly differentiated, for clarity perhaps for the sediment data the appropriate column heading should be changed to "Sediment Value".**

Response: The figure has been revised as requested.

19. **Tables 2-1 and 2-2: Since the table presents information from outside the 1971 - 2000 date range the question comes to mind that maybe the mean values were also calculated using a larger set of data than indicated.**

Response: The table titles have been revised to reflect the inclusion of 2001 data. Mean values are based on this additional data set.

20. **Tables of detections: Please consider including a footnote explaining the bolded values (they may also be highlighted but that doesn't show that well in the copies).**

Response: A footnote has been provided to indicate that the bolded/shaded values represent PRG exceedances.

21. **HTRW Drilling Logs, note for future application: [Refer to Logging Manual, HTRW Design Branch USACE Nashville District which I believe was provided to Jacobs for the first delivery order on this contract, if not please request it] More detail concerning the drilling operations should be noted in the Remarks column. The log should note the drilling technique and any changes in it as the hole is advanced. The actual field log is not simply a record of the material drilled through but also a record of how the hole was advanced especially if there are problems or peculiarities. (The log for IT-AA2-GW-002 in Appendix E is a fairly good example of what the Corps generally expects in the logs and Figure 4-1 of EM 1110-1-4000 is also informative.) So the log might record something like- Drive 2" split spoon sampler 2' ahead of 4.5" augers; Drive 2'/Recover 1.5'; Switch to 5' split spoon with**

acetate sleeve still through augers; Drive 5'/Recover 3.5', 1.5' left in hole unrecovered; Change to split spoon sampling every other 5' as advance hole with hollow stem augers; etc. The log should note in the sequence of remarks when an upper casing is set, to what depth, what it's made of, etc. The next note after the casing would then be dated for the resumption of drilling and note the technique, etc. If the Corps has authorized a variation from this more detailed logging then it should be noted in the Remarks column to avoid uncertainty. Also, column f should note the number assigned to the sample not just the interval sampled.

Response: Comment noted. The requested information will be reported on future boring logs.

Reviewer: Lannae Long, USACE CELRN

1. **Report writing and data presentiation should be separate for Acid Area 2 and Acid Area 3. In the surface water and sediment section, it looks like you combined the databases and were talking about two discrete waterways as one waterway. Separate these. In future documents, each area should be handled separately. For example, the next report should be the risk assessment, and there should be be a chapter for Acid Area 2 human health risk assessment, and a chapte for Acid Area 3 risk assessment, and they should not have risk information mixed in together. Acid Areas 2 & 3 are separate, discrete areas of concern that were bundled under one FUDSMIS number for FUDS record keeping. It is quite likely that RD and RA will be on separate timelines for Acid Area 2 and Acid Area 3, if history of funding streams is an indicator of how these two AOCs will be handled. For future reports, inlcluding the risk assessment, feasibility study, remedial design and remedial action, each AOC should be handled separately, and in its own section, as to have ease of physically separating the report into two parts: one for AA2 and one for AA3. For example, AA2 will be its own chapter with figures and tables pertaining to AA2, and AA3 will be its own chapter with figures and tables pertaining to only AA3. It is ok to have this report with chapters "tagging back and forth" from AA2 to AA3, but for all future documents, AA2 and AA3 will be handled separately not have this "tagging back and forth" anymore.**

Response: Comments noted

2. **Section 4.0: Add a statement about why EPA Region 9 (Oct 2004) PRG for residential soil was used in this report. There needs to be a statement clearly stating that these values are presented with the data to show perspective of the sampling results, and give the reviewer a feel for was found through sampling. PRGs are not being used as a regulatory level, nor a substitute for a risk assessment. Please make an over-arching statement about the PRGs for all media, or add clarifying statement in all media chapters. Also, add a statement of how the PRGs were manipulated (ex. non-carcinogenic PRGs were divided by 10) for comparison to the media, and why the PRGs were manipulated.**

Response: A new section 3.10 Data Screening has been added to address the purpose and use of PRGs.

3. **Section 7.3: Separate out the surface water and sediment samples by AOC. The section starts with stating "36 sample locations...", but it needs to be broken out by AOC, so state how many locations at AA2 and then AA3, not the total over both.**

Response: Separate sections were created for each site to address surface water and sediment.

4. **It has been brought to our attention by the CX that they have questioned why they are being pulled into the review process "so late" in the Interim final stage. The reality is that their review is of a draft document that is being first seen by all team members, and the CX is not being left out of the process. They are getting the wrong impression due to document naming. My suggestion for future reports have the following designation: Internal Draft (LRN only) Draft (to all team members) Final (final document to all team members)**

Response: Comment noted.

Reviewer: Paula Watts, USACE CELRN

1. **Section 3.9.2.1. Validation should have been based on LCG and NFG but NFG should not be referenced as the validation guidelines for non-CLP (SW-846, water quality ect. methods.)**

Response: Section 3.9.2.1 has been revised to state the following: "The data evaluations were performed in accordance with the requirements of the SAP (Jacobs 2004), and guidance provided in the Louisville Chemistry Guideline (LCG), Revision 5, June 2002."

2. **Section 5 and others. When referring to J qualified data there is often a statement about the "high degree of uncertainty associated with the data point". This is very strong wording. The degree of uncertainty will vary depending on several items including the matrix, and the concentration relative to the MDL. The EPA definition of a J qualifier should be used in place of this verbiage..."the associated numerical value is the approximate concentration of the analyte in the sample... followed by a brief explanation of the quantification of a compound below the reporting limit.**

Response: The suggested wording and brief explanation of outlier(s) was used in place of the "high degree of uncertainty" statements used throughout Section 5.0.

3. **Section 4.1.1. Reference where the established background data for inorganics can be found.**

Response: The reference to the Shaw, 1998 background investigation has been provided.

4. **Figures, Add a map for each acids area locating the monitoring wells with groundwater flow directions shown on the maps.**

Response: Figures 5-3 through 5-5 show the well locations and associated groundwater contours for each site.

SUBJECT: Response to review comments for the Interim Final Site Characterization Report, Remedial Investigation, Part 1, at Acid Area 2 & 3, Former Plum Brook Ordnance Works (PBOW), Sandusky, OH, August 2005, Prepared by Jacobs Engineering Group, Inc., Contract Number DACW62-03-D-0004-0004

Reviewer: Paul Jayko, OEPA

1. **Ohio EPA observed that overburden monitoring well MK-MW10 was not included on Figure 3-1 (Acid Area 2 sampling location map) of the September 2006 Interim Final Site Characterization Report, Remedial Investigation, Part 1, at Acid Areas 2 and 3 (report).**

Response: This monitoring well was added to the figure as requested.

2. **Section 7.2 of the U.S. Army Corps of Engineers (USACE) and Jacobs Engineering Group, Inc. (Jacobs) September 2006 report states that soils at Acid Areas 2 and 3 are not impacting ground water (overburden or carbonate bedrock ground water). USACE/Jacobs base this conclusion on the fact that bis(2-ethylhexyl)phthalate which was detected in shallow ground water, is a common laboratory contaminant and several SVOCs detected in the carbonate bedrock zone (Delaware Limestone) are due to naturally occurring petroleum.**

   Ohio EPA concurs with USACE/Jacobs that bis(2-ethylhexyl)phthalate is a common laboratory contaminant and that naturally occurring petroleum does exist within the Delaware Limestone beneath NPBS and Erie County as a whole. However, Ohio EPA does not necessarily agree that soils at Acid Areas 2 and 3 have not contributed constituents of concern to overburden and carbonate bedrock ground water. In addition to benzene, toluene, ethylbenzene, and xylene, a number of additional organic compounds were also detected (including methyl ethyl ketone, phenol, 2-methylphenol, 1,3-dinitrobenzene, and 2-nitrotoluene) in both saturated zones which does not support the theory of a single contaminant source (naturally occurring petroleum). Refer to Tables 5-3 through 5-9 of the report for additional information.

   Ohio EPA anticipates that further characterization of the overburden and carbonate saturated zones beneath Acid Areas 2 and 3 will be completed via a human health risk assessment and/or the site-wide ground water investigation.

Response: The contaminants methyl ethyl ketone (MEK), phenol, 2-methylphenol, 1,3-dinitrobenzene, and 2-nitrotoluen were only detected in the bedrock groundwater, and of these only MEK was detected in the soil. The text in Section 7.2 was revised to include the exception for MEK as possibly contributing to groundwater contamination. A note was also provided about the non-petroleum related compounds detected.

It is agreed that any further characterization of the bedrock groundwater will be performed under the site-wide investigation

3. **Section 7.5 of the report recommends that bedrock monitoring well AA3-BEDGW-004 be properly abandoned as it displays low to no recharge. Ohio EPA recommends**

that if USACE/Jacobs intend to abandon the well, that they wait until additional sampling points require abandonment or until additional field investigations are implemented at NPBS to reduce mobilization costs. Well abandonment activities should be properly performed and documented via Ohio Department of Natural Resources Division of Water well sealing reports. Copies of the aforementioned sealing reports should be included in a corresponding report documenting abandonment activities for submittal to Ohio EPA. USACE/Jacobs should consult the following references for assistance in completing well abandonment activities:.

a. **Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring (Ohio EPA, February 1995);**

   http://www.epa.state.oh.us/ddagw/Documents/ChapterGuid09abd0205.pdf

b. **Chapter 9 of the Ohio EPA February 2005 Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring. The procedures can be found in detail at the following internet address:**

   http://www.epa.state.oh.us/ddagw/Documents/ChapterGuid09abd0205.pdf

c. **State of Ohio Technical Guidance for Sealing Unused Wells; State Coordinating Committee on Ground Water (1996);**

   http://www.dnr.ohio.gov/water/pubs/pdfs/wellsealing.pdf

d. **Ohio Department of Natural Resources Division of Water Fact Sheet (92-6), Properly Sealing Unused Wells (12/16/92);**

   http://www.dnr.ohio.gov/water/pubs/fs_div/fctsht06.htm

Response: Comment noted. Abandonment of this well will not be performed without prior consultation and mutual agreement with the OEPA.

Reviewer: Laurie Moore, OEPA

1. **Executive Summary, page ix, 3rd paragraph: Clarification. In this paragraph, the text references using Region 3 Risk Based Concentrations for screening, however elsewhere in the report Region 9 PRGs for residential soil are used as the source for screening data and selecting COPCs. Please clarify and revise. Ohio EPA recommends the use of the Region 9 PRGs for residential soils.**

Response: Region 3 RBCs were used as a screening tool for the 1998 SI data. This text is simply stating how the older data was screened.

2. **Executive Summary, page xi, last bullet: Please add "and ecological risk assessment" to the last bullet.**

Response: The text was revised as requested.

3. **General Comment: Was Thallium used or associated with any of the processes at Acid Areas 2 and 3? The reason I ask this question is because thallium was detected in both soil and sediments above background levels and PRGs, which makes me question what the source could be.**

Response: There is no record of thallium being associated with the former processes.

4. **Section 7.0, last sentence: Clarification needed. Within this paragraph, it has been stated that there is sufficient data to conduct a risk assessment, however, the last sentence says that additional investigation is needed to fully delineate the extent of soil and sediment contamination. Per RAGS guidance, both nature and extent of contamination should be determined prior to conducting your risk assessment.**

Response: Agreed. We recommend that the extent of chemicals of concern be determined in the upcoming phases of this project. Currently, sample results indicate the nature of site chemicals, but the extent has not fully been defined. The data is sufficient for performing a risk assessment, with the sample results biased high to the source area. Through risk assessment, COCs will be defined. The COCs extent should be defined before the FS, and the extent should be re-visited at every phase through the remedial action.

5. **Section 7.2 Groundwater Investigation page 7-2: It may be helpful to mention that groundwater at Plum Brook is being evaluated on a sitewide basis and that risks associated with Groundwater exposure are assessed in the Baseline Human Health Risk Assessment of Groundwater report for Plum Brook that was drafted earlier this year.**

Response: The text was revised to include this statement.

SUBJECT: Response to review comments for the Interim Final Site Characterization Report, Remedial Investigation, Part 1, at Acid Area 2 & 3, Former Plum Brook Ordnance Works (PBOW), Sandusky, OH, August 2005, Prepared by Jacobs Engineering Group, Inc., Contract Number DACW62-03-D-0004-0004

Reviewer: Sam Bass, USACE HTRW Center of Expertise, Geology

Comment # 1: General comment. Extensive comments have been made on previous versions of this report. The current review consists only of backchecking previous comments. Thus the comments below reflect further clarifications that are in order or repeat (whole or partial) comments that have not been addressed.

Response: Comment noted

Comment # 2: Page 1-6, Section 1.3.2. Based on the discussion in this section, it appears there are no overburden wells located downgradient of the Acid Area 2 site. Include consideration of this point in the evaluation of ground water data in subsequent ground water discussions in Section 3.4 and 5.0.

Response: The text in sections 5.2.1 and 7.2 has been revised to indicate that shallow groundwater downgradient of AA2 has not been fully evaluated. Based on a memo from the OEPA, dated 5 March 2007, the installation of additional shallow groundwater wells downgradient of AA2 is not warranted (see Appendix M).

Comment # 3: Pages 3-5 through 3-7, Sections 3.4.4 and 3.4.5, and Appendices, General comment. Although a separate report (the Round 1 Quarterly Ground Water Monitoring Report, April 2005) contains the detailed records of slug testing and purging and sample collection, it would be helpful if the Site Characterization Report included references to the Round 1 Quarterly Ground Water Monitoring Report so the reader knows where to look to find the needed information.

Response: A reference to the Round 1 Report was added to Section 3.4.4. A reference to this report was already provided in section 3.4.5 (page 3-7).

Comment # 4: Page 3-7, Section 3.4.6. Please include the vertical datum used in surveying monitoring wells at the site.

Response: The elevation datum NGVD 29 was provided in the text.

Reviewer: Carol Dona, USACE HTRW Center of Expertise, Process Engineering

Comment # 1 p. 1-5, p. 7-1: The text indicates that the over burden wells that were sampled during the Site Characterization in Acid Area 2 (AA2) were two side-gradient wells and one up-gradient well. There appears to be a data gap with respect to the contamination in the groundwater beneath and downgradient of the area in AA2 with PAH and PCB soil contamination. This brings into question whether the AA2 overburden groundwater data collected is sufficient to support a risk assessment as stated on p. 7-1. Please discuss the adequacy of the existing data for the risk assessment and any related needs for the installing and sampling of additional wells.

Response: The data gap has been addressed in section 5.2.1 and section 7.2 (see response to comment 2 by Sam Bass). Sufficient data has been collected from the shallow groundwater to indicate that this unit does not yield sufficient volume to be a viable groundwater source. The Acid Area 2 & 3 Human Health Risk Assessment Work Plan consequently addresses shallow groundwater in a qualitative manner.

Comment # 2 p. 2-4 , p. 5-2: The text on p. 2-4 describes a groundwater high running north/south through the center of AA2 from which bedrock groundwater "should flow east and west away from the center of the site" according to contour map, Figure 6-5, of the 2004 Groundwater Data Summary Report. The text on p. 5-2 references the same Figure and says the bedrock groundwater at AA22 flows to the east, west, and north. Figure 6-5 was obtained and the groundwater directions indicated are to the northeast and west, slightly north. Recommend that the text be revised to indicate the two northeast and northwest directions. As it is currently written, it appears that groundwater is flowing in three directions from the center of the site.

Response: The text on page 2-4 was revised to include the north as a flow direction.

Comment # 3: p. 1-5, p. 7-1, Figures 3-1, 4-1, and 4-2 and Figure 6-5 from the 2004 Groundwater Data Summary Report: The text states that one of the bedrock wells in AA2 is "centrally located on site" and the "other is down-gradient of the site." Figures 4-1, 4-2, and 3-1 indicate that AA2-BEDGW-001 is located on a north-south line through the center of the site but 200-400 ft north and or west of the locations where PCB and/or PAH contamination in the surface and subsurface soils were found (no soil samples are indicated for the area where AA2-BEDGW-01 is located). AA2-BEDGW-001 is also to the north of the ditch and the road that runs on the north side of the PCB and PAH contamination area. The second AA2 bedrock well, PB-BED-MW1 is approximately 600 ft east and 800-1000 ft from the locations of high PCB and/or PAH concentrations. From the locations of AA2-BEDGW-001 and PB-BED-MW1 and the groundwater directions on Figure 6-5 from the 2004 Groundwater Data Summary Report, it appears questionable that AA2-BEDGW-001 is either located in or downgradient of where the AA2 soil contamination is centered and PB-BED-MW1 may be too distant downgradient to pick up contamination migrating from the areas of high contamination.

Response: The text has been revised to indicate that one of the bedrock wells is located slightly downgradient of the site, and the other bedrock well is located 800 feet downgradient of the site.

Comment # 4 Table 5-5: The PRGs for 2,4-dinitrotoluene and 2,6-dinitrotoluene, 7.3 and 3.6 micrograms/L, respectively, are those listed for the individual dinitrotoluenes in the Region 9 PRG table. It is typical to use the lower PRG of 0.099 micrograms/L for the nitrotoluene mixture when both 2,4-and 2,6-dinitrotoluene are present. This would indicate that the detections of the

dinitrotoluenes, although J values, are above the PRG. Recommend discussing in the text and revising Table 5-5.

Response: Table 5-5 was revised as requested.

Comment # 5, Figure 6-2: It is not clear how far the furthest west sediment sample that was taken in the northern ditch at AA2 is from Pipe Creek. Please supply this information on the Figure, i.e at the edge of the Figure indicating the distance to the Creek. Also, please discuss the distance to the Creek with respect to the fact that the benzo(a)pyrene concentration in the furthest west sediment sample is above the PRG so the contamination in the sediment in the north ditch is not bounded in the direction toward the Creek.

Response: A note will be added to the figure to indicate the distance to Pipe Creek. Pipe Creek is located east of the site, therefore these boundary concerns apply more to location SWSD-23 than to location SWSD-16.

Comment # 6, Section 1.1.2 and 1.1.3: It is not clear from the site history in Section 1.1.2 how the site became contaminated with primarily PAHs and PCBs. (Section 1.1.3). Please include this information if available.

Response: This information is not available.

SUBJECT: Response to review comments for the Interim Final Site Characterization Report, Remedial Investigation, Part 1, at Acid Area 2 & 3, Former Plum Brook Ordnance Works (PBOW), Sandusky, OH, August 2005, Prepared by Jacobs Engineering Group, Inc., Contract Number DACW62-03-D-0004-0004

Reviewer: Julie Weatherington-Rice, TAPP

1. **Portions of the Acid Areas 2 & 3 drain to Pipe Creek. There is a newly formed Pipe Creek Watershed (volunteer) Group who are actively investigating the existing conditions along Pipe Creek. This group is being coordinated by the Erie Soil & Water Conservation District who is hiring a new Watershed Coordinator to work on watershed activities in Erie County. It would be wise to notify and/or coordinate with the Pipe Creek Watershed Group when site investigations and/or remediation efforts are underway at PBOW in that watershed. It may be useful for the Watershed Group to conduct off-site investigations and assessments in conjunction with PBOW efforts on site as the group is responsible for the creek both before and after it leaves the PBOW property. It may also be useful to communicate with them to share their general off-site information on the general health of Pipe Creek, both up stream and down stream of the location where the PBOW property crosses the creek and becomes a portion of the watershed. In this way, remediation of the PBOW site will continue to be integrated into the general community awareness of the citizens of Erie County. The location of Pipe Creek as it flows through the western section of the PBOW property can be seen on Figures 1-1 and 1-2 of this reviewed report.**

We also recommend that a linkage with the Pipe Creek Watershed Group be made so that they can become aware of the PBOW clean-up effort and perhaps even become part of the RAB and/or assign a Pipe Creek Watershed Group member to attend the PBOW RAB meetings. Until the new Watershed Program Coordinator is hired by the Erie Soil & Water Conservation District (SWCD), contacts can be made through Eric Dodrill, District Director. The contact point for the Erie SWCD is:

Erie Soil and Water Conservation District
2900 Columbus Avenue, Room 131
Sandusky, OH 44870
ESWCD@erie-county-ohio.net
Phone 419-626-5211 Fax 419-609-9707

This linkage to the Pipe Creek Watershed Group should be included in the text of this report, complete with the contact information provided above to capture this important community resource.

Response: The contact for Pipe Creek Watershed Group has been added to the RAB mailing list.

2. **We note that the general soils and geologic information in this report continues to be based on the antiquated references of earlier site reports and those incomplete understandings of surface to ground water recharge and transport in the area of and surrounding the PBOW. Since becoming involved in the PBOW-RAB activities, staff from Bennett & Williams has identified the most recent soils and geologic information available for Erie County, including the PBOW site. This more modern understanding of the physical properties of the site's soils, glacial materials, and underlying bedrock materials as they relate to transport of contaminants from the site's surface and near surface materials to the ground water under the PBOW will become critical as the ground water remediation phase of the remediation process goes into effect.**

We recommend that a section be included in this "Interim Final Site Characterization Report" that identifies those documents and resources and they be included in the "References" section. That way, these important new references and concepts will not be overlooked when needed for the ground water phase of the PBOW cleanup. All references and contacts can be found in our earlier reports to both ACOE and to the RAB. In addition, important information was presented by scientists from the Ohio Department of Natural Resources Divisions of Geological Survey, Water, and Soil & Water Conservation at the August, 2006 Field Day which was arranged for the education of the RAB, members of ACOE, and their consultants. If the ACOE needs further clarification as to which references are applicable, we will be pleased to provide that additional information. To obtain copies of the new Erie County SSURGO Digital Soil Survey, please contact Eric Dodrill, Erie SWCD.

Local Groundwater Withdrawals and Their Possible Effect on Plum Brook's Ground Water Levels

Response: Section 2.2 has been revised as suggested to include the current up to date information.

3. **One of the ongoing questions that continue to challenge the RAB members and the professionals undertaking the clean-up of the PBOW site is the question of the ground water "trough" that was identified in the earlier ground water studies of the facility and the lack of water and/or reduced water levels in some of the bedrock monitoring wells such as AA3-BEDGW-004. Once again the issue is raised because this report makes the recommendation that AA3-BEDGW-004 be abandoned. (Please see our earlier reports on the Acid Areas 2 & 3 and the No. 2 Burning Ground that discusses the dry and/or reduced volumes of ground water in several of the monitoring wells.)**

Response: The recommendation to abandon bedrock monitoring well AA3-BEDGW-004 has been deleted.

4. **Page 1-3 mentions the locations of the storage tanks and rail lines in the vicinity of the two sites. It has been our experience in working with other industrial sites that historically housed tanks and rail lines that spills occasionally**

occurred as part of the off loading and on loading process of the liquid chemicals. This condition was especially problematic when acids were involved as the acids tended to degrade the transport piping used between tanks and rail cars.

Response: Comment noted.

5. **Page 2-1, top paragraph. A correction to the text "Approximately two thirds of Erie County was once covered by a glacial lake" is needed. In actuality, portions or all of Erie County were repeatedly covered by glacial lakes as ice sheets advanced out of Canada and drainage was blocked to the Atlantic Ocean during the Pleistocene. It is our assumption that the glacial lake referenced in this paragraph was actually the last series of glacial lakes to cover Erie County after the last ice sheet melted back out of Ohio at the end of the Late-Wisconsinan Age. From that period until the ice went out at Niagara Falls and reestablished the current drainage system, a series of lakes with a series of shorelines existed over portions of Erie County. The most extensive lake had a shoreline just north of Lima, Ohio in Allen County at approximately 800 feet above mean sea level and drained out at Fort Wayne, Indiana. A small map showing the furthest locations of these post ice lakes can be seen and is available for printing at http://www.ohiodnr.com/geosurvey/pdf/glacial.pdf. It may be useful to include a modification of this graphic as a figure in the report for clarification.**

Response: The text has been revised to indicate numerous glacial lakes covered the area.

6. **Page 2-1 PBOW Geology. It appears that this section has not been revised to include the information contained in the Erie County SSURGO Digital Soil Survey. It needs to be updated with the newer information. See general comments above.**

Response: This section has been revised as suggested.

7. **Page 2-2 AA2 Geology. This section would be helped if a graphic was included in the report so that these comments are better visualized. It may be possible to create such a graphic using the Erie County SSURGO Digital Soil Survey (please see our figures 1 & 2 in this memorandum which are made from that source).**

Response: A figure has been provided to depict the upper lithology at each site.

8. **Top of page 2-3 discussing the thickness of the Delaware Limestone. The Hanson Aggregates Mideast Wagner Quarry is mining both the Delaware and Columbus Limestone at that location, only a few miles from the AA2 site. The thickness of the Delaware Limestone at the quarry can be used for an approximation at this site. That information will be important when the ground water phase of the remediation begins because the quarry is dewatering the underlying Columbus Limestone and is dewatering the entire Delaware Limestone at the quarry site.**

Response: The thicknesses as reported at the quarry would not be appropriate since an unknown portion of the top of Delaware Limestone had been eroded from the Quarry site, prior to the deposition of glacio-fluvial sediments. The Plum Brook Shale overlies

the Delaware Limestone at AA3 and the eastern portion of AA2, therefore the thickness of Delaware Limestone at these locations should theoretically be thicker than at the quarry.

9. **Page 2-3 2nd paragraph PBOW Description. The statement is made that "Water levels in the Delaware Limestone are on average 30 ft bgs, suggesting that this unit is hydrogeologically isolated from the overlying units." As Bennett & Williams staff works with both ODNR staff and Erie SWCD staff, we have been unable to identify a location in Erie County where "hydrogeologically isolated" units of the Delaware Limestone exist. We do note, however that the jointing and bedding planes in the Delaware Limestone are more developed and have been considerably more expanded by solution weathering than those in the Plum Brook Shale. The Erie County SSURGO Digital Soil Survey maps a solution sink hole in at least the Delaware Limestone approximately 9,000 ft. north–northwest of Acid Area #3 slightly to the southwest of the Wagner Quarry. Therefore, considering the more rapid secondary porosity of the Delaware Limestone than that of the Plum Brook Shale and the overlying fine-grained glacially related materials and the dewatering of the Hanson Aggregates Mideast Wagner Quarry to an elevation in the underlying Columbus Limestone, a more logical reason for this separation would be the more rapid response of the Delaware Limestone wells to regional pumping.**

Response: The referenced statement about hydrological isolation has been removed.

10. **Page 5-3 Bedrock Geology 1st paragraph. There is a notation that the "SVOCs were detected.....which are also compounds associated with naturally occurring petroleum, which is present in the Delaware Limestone". There has been an ongoing discussion over the last year at the RAB meetings calling for a fingerprinting of the oily residues found in the various ground water wells to establish once and for all if the oils found are indeed crude oils and/or residual refined oils from previous activities at the site. If that study has been completed, it should be referenced here. If not, there should be a notation here mentioning that it will be done at a later point in time and by whom, if known.**

Response: The text has been revised as requested to indicate that this information is to be obtained by NASA.

11. **Page 7-4 5th paragraph. "Release of contaminants into the deeper bedrock groundwater is unlikely because of the absence of contaminants in the shallow groundwater <u>and the highly impermeable clay layer above the bedrock</u>". While the first part of the sentence appears to be correct, there is no physical verification that the clay layer above the bedrock is not fractured and is therefore "highly impermeable". The testing needed to support that statement has not been done at the PBOW. If there is a desire to try to undertake that type of testing, there are instructions in the two special issues of the Ohio Journal of Science as to how to undertake such a study. Both Bennett & Williams staff and other members of the OFFWG would be available to assist. Short of such an effort, this statement is misleading and creates an illusion of protection where no such protection has been proven to exist.**

Response: The underlined statement has been removed from the text.

12. Page 7-5 Recommendations

"Further actions should be considered to address the contaminants exceeding the USEPA Region 9 PRGs in soil and sediment at AA2 and AA3. The recommendations are as follows:

- **"Perform a human health and ecological risk assessment using existing site data.**
- **"Conduct additional surface soil sampling to fully delineate the soil contamination at both sites.**
- **"Conduct an investigation of the soil south of AA3 near the former waste water treatment plant to delineate the SVOC contamination.**
- **"Abandon bedrock monitoring well AA3-BEDGW-004.**
- **"Evaluate the need for any further remedial actions based on results from the human health risk assessment."**

We concur with all of these recommendations except the abandonment of monitoring well AA3-BEDGW-004. There are far too many questions still open as to how water is removed from the bedrock wells in some areas of the site and apparently not in other areas and/or at least not as much. When the ground water study is undertaken, it may be necessary to dye-test the aquifer to see how much drawdown is occurring due to the pumping at the Hanson Aggregates Mideast Wagner Quarry and/or at other sites around the PBOW. Since this well is basically dry, the odds are very high that this well is influenced by the quarry dewatering pumping. Therefore, this well may become an important location in the ground water study. It may be decided that this well should be the location where harmless tracer dye is flushed into the system. If the well is grouted shut, it would be necessary to undertake the expense of redrilling it. In a project of this magnitude where conservation of economic resources is important, to abandon this well now is premature.

Response: The recommendation to abandon bedrock monitoring well AA3-BEDGW-004 has been deleted.

13. **The soil tables contain a background level of 234,000 mg/kg for iron. Please check to make certain that this level is correct. If it is, the recipients of this technical memorandum may also benefit by reading the section of the educational memorandum headed "Water (and Contaminant) Movement at PBOW – A Short Tutorial"**

Response: The value of 234,000 mg/kg for background levels was confirmed.

Appendix M

OEPA Issued Technical Memorandum: Shallow Groundwater at AA2

INTER-OFFICE COMMUNICATION

TO: Paul Jayko, Site Coordinator, DERR-NWDO

FROM: John Weaver, Geologist 3, DDAGW-NWDO

DATE: March 5, 2007

SITE: NASA Plum Brook Ordnance Works, Erie County, RR 322-0552.

SUBJECT: Evaluation of shallow (overburden) ground water at Acid Areas 2 and 3. Electronic mail request from U.S. Army Corps of Engineers (USACE) Nashville, TN district. Received by Ohio EPA (NWDO) on February 28, 2007.

Introduction:

The Division of Emergency and Remedial Response (DERR) has requested that the Division of Drinking and Ground Waters (DDAGW) respond to a request from the U.S. Army Corps of Engineers (USACE) Nashville, TN district on the occurrence of shallow ground water at Acid Areas 2 and 3.

The U.S. Army is conducting environmental investigations at previously owned U.S. Department of Defense (DOD) properties including the NASA Plum Brook Station (NPBS). NPBS was built in early 1941 and consists of approximately 9,000 acres located 4 miles south of Sandusky, Ohio in Erie county. From December 1941 to 1945, the facility manufactured trinitrotoluene (TNT), dinitrotoluene (DNT), acid, and pentolite for use as explosives during WWII. NASA acquired the site in 1963 and is currently utilizing the site to conduct aerospace research.

Investigatory work at the NPBS is being conducted by the U.S. Army Corps of Engineers (USACE) Nashville, TN district office under the Defense Environmental Restoration Program Formerly Used Defense Sites. Jacobs Engineering Group, Inc. (Jacobs) is currently performing a remedial investigation (RI) at Acid Areas 2 and 3 which are located in the northwestern portion of the NPBS. Acid Areas 2 and 3 were formerly used to produce materials for the manufacture of TNT including sulfuric and nitric acid. Constituents of concern (COCs) detected in soil samples include semivolatile organic compounds, polynuclear aromatic hydrocarbons, and PCBs.

Comments:

1. Provided below are Ohio EPA conclusions on the conditions at Acid Areas 2 and 3 previously provided to the U.S. Army Corps of Engineers (USACE) Nashville, TN district office and NASA Plum Brook Station (NPBS). The conclusions are based upon agency review of previously submitted investigatory documents.

    a. Shallow ground water flow at Acid Area 2 is generally to the northeast and southeast and towards two ditches running east-west along the northern and southern boundaries of the area of concern (AOC).

    b. Shallow ground water flow at Acid Area 3 is generally to the west and towards a ditch running north/south along the western boundary of the

AOC.

c. Hydraulic conductivity values for the shallow overburden zone at Acid Area 3 ranged from 5.3×10^{-6} cm/sec to 1.5×10^{-4} cm/sec.

d. Shallow zone at Acid Area 2

- Several VOCs, including benzene, ethylbenzene, cyclohexane, and total xylenes, were detected above associated method detection limits (MDLs).

e. Shallow zone at Acid Area 3

- total/dissolved arsenic was detected above Region IX residential PRGs.

2. Ohio EPA has previously regarded the shallow-overburden zone at NPBS as a non-potable source of water due to its low yield and discontinuous nature of more saturated, permeable lenses. However, while most residents of Erie County including the NPBS obtain their water from public utilities, several wells do exist in the vicinity whereby residents obtain ground water for potable and agricultural purposes. These wells are completed in shallow sand and gravel units and the underlying shale unit. Unless there is some type of local health department restriction on the installation of potable water wells for private residences, then one cannot assume that new dwellings in the area will be automatically supplied with publicly owned water. While the Ohio EPA agrees that shallow, discontinuous lenses of sand and gravel overlying bedrock are not a significant source of potable ground water in the area, its quality must be maintained due to various other potential receptors other than human ingestion.

   It was agreed during a meeting held at Ohio EPA Southwest District Office on March 19, 2001 that the need to perform a risk assessment at NPBS using a residential scenario was unwarranted for the shallow ground water zone. However, the USACE will address shallow ground water occurring at NPBS in a qualitative manner as described in Sections 1.3 and 3.1.3.1 of the Shaw Environmental Inc. DRAFT March 2006 document entitled, ' Baseline Human Health Risk Assessment'. Shaw will perform modeling to determine the potential impact of any nitroaromatic contamination in the shallow, overburden ground water zone on the bedrock ground water zone beneath NPBS.

3. Based upon a review of Figures 4-3 through 4-6 of the Jacobs Engineering Group, Inc. (Jacobs) August 2005 document entitled, 'Round 2 Quarterly Groundwater Monitoring Report - Remedial Investigation, Part 1, at Acid Areas 2 and 3', ground water in the shallow overburden ground water zone flows to ditches running parallel along both areas. The need to install additional downgradient monitoring wells at each area is not supported as ground water flow in and out of the center of each area is towards the ditches.

4. With the exception of bedrock ground water which will be evaluated in the baseline

human health risk assessment at NPBS as part of the sitewide ground water investigation, Ohio EPA and USACE have previously agreed that shallow-overburden ground water would be addressed on an area of concern by area of concern basis.

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