ANNUAL GROUNDWATER MONITORING REPORT
SITE BB-293
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
Revision 0

Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-03-D-4000
Task Order No 0011



Atlantic Division
Naval Facilities Engineering Command
6506 Hampton Boulevard
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13 May 2005

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COPY

We hereby certify that the Report shown and marked in this submittal is proposed to be incorporated into Contract Number N62470-03-D-4000, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval.

Certified by QC Project Manager
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13 May 2005

LIST OF ACRONYMS/ABBREVIATIONS

bgs	below ground surface
Catlin	Richard Catlin and Associates, Inc.; Catlin Engineers and Scientists
Cr	Chromium
CSA	Comprehensive Site Assessment
DI	Deionized Water
DWM	Division of Waste Management
EEI	Engineering and Environment, Inc.
GCL	Gross Contamination Level
L	Liter
LSA	Limited Site Assessment
MADEP EPH	Massachusetts Department of Environmental Protection Extractable Petroleum Hydrocarbons
MADEP VPH	Massachusetts Department of Environmental Protection Volatile Petroleum Hydrocarbons
MCB	Marine Corps Base
mg/kg	milligrams per kilogram
msl	mean sea level
MW	Monitoring Well
MSCC	Maximum Soil Contamination Concentration
NAVFACENGCOM	Navy Atlantic Division, Naval Facilities Engineering Command
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
NCGS	North Carolina Geological Survey
NCGWQS	North Carolina Groundwater Quality Standard
ND	Not Detected
O&G	Oil and Grease
Pb	Lead
QC	Quality Control
SVOC	Semi-Volatile Organic Compound
TIC	Tentatively Identified Compound
TPH	Total Petroleum Hydrocarbons
ug/L	micrograms per liter
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

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EXECUTIVE SUMMARY

On behalf of the Department of the Navy, Atlantic Division, Naval Facilities Engineering Command, Engineering and Environment, Inc. (EEI) has prepared this annual groundwater monitoring report for Site BB-293, Marine Corps Base Camp Lejeune, North Carolina. The report presents the findings of groundwater monitoring activities conducted quarterly from June 2004 through March 2005.

The site has been used as a training facility for field purification of raw water and operation of portable field laundry facilities since 1985. In January 1996, a 550-gallon used oil underground storage tank (UST) was closed via removal from the site. Soil samples collected near the UST indicated Oil and Grease (O&G) concentrations were above the North Carolina Department of Environment and Natural Resources (NCDENR) action levels in effect at that time. A Comprehensive Site Assessment (CSA) subsequently conducted confirmed that O&G impacted soils were limited to the immediate vicinity of the former UST. A second area of impacted soil was identified approximately 100 feet east of the former UST. This area was affected by petroleum–related Volatile Organic Compounds (VOCs) thought to be a result of accidental fuel spillage from portable gasoline and diesel powered equipment used at the training site. Later soil sampling in this area reportedly indicated the VOC-affected soils were limited to the immediate vicinity of the original sampling location.

No free product was observed during the CSA. Three areas of surficial aquifer groundwater impacts were identified. One area was located in the immediate vicinity of the former UST. A second area was associated with the fuel-related VOCs observed in soils east of the former UST. A third area was located approximately 50 feet south of the former UST and was considered possibly related to the releases from the former UST. Deeper groundwater in a limestone unit beneath a clay layer underlying the surficial aquifer did not exhibit any petroleum-related impacts.

Some trihalomethane compounds were detected in groundwater samples collected during the CSA from several locations across the site. As trihalomethane compounds are common byproducts of water treatment processes such as those employed during raw water purification training exercises, the presence of trihalomethane compounds in groundwater samples collected during the CSA was attributed to the discharge of treated water produced during training exercises and was unrelated to the former UST.

In 2001, additional soil and groundwater sampling was conducted at the site. Soil samples collected near the former UST did not produce detectable concentrations of any petroleum or other organic compounds. Lead and chromium, where detected in soils, were below all of the NCDENR Maximum Soil Contamination Concentration levels.

No free product was observed during the 2001 investigation. Groundwater samples were collected from the six site monitoring wells. The only compounds detected at concentrations above NCGWQSs were chloroform, naphthalene, and the C_9-C_{22} Aromatic Fraction, and these appeared to be limited primarily to monitoring well MW-5. All concentrations were below Gross Contaminant Levels (GCLs) established at the time. The site was recommended for

consideration for a "Low Risk" classification with Industrial/Commercial cleanup levels, and that the site be considered for "No Further Action" closure status.

In July 2002, NCDENR denied the Request for No Further Action, expressing concern about the presence of the pond supply well at the site. NCDENR recommended that groundwater monitoring be continued.

In June 2004, the current groundwater monitoring program was initiated. The program includes quarterly well gauging at the six monitoring wells present at the site, and quarterly groundwater sampling at the six monitoring wells and the pond supply well. Monitoring events were conducted by EEI in June, September, and December 2004, and in March 2005.

Data from the quarterly monitoring events indicated that no measurable free product was present in the site monitoring wells, consistent with past investigations. Previously conducted soil sampling indicated soil contamination has been reduced below soil-to-groundwater maximum concentrations. No target organic analytes (other than methylene chloride, a suspected laboratory contaminant) were detected in the pond supply well, a well not used to supply drinking water. The deep monitoring well at the site, located adjacent to the former UST, produced few organic analytes, all of which were reported at concentrations substantially below NCGWQSs. Data from the first quarter event identified some trihalomethanes in groundwater at concentrations above NCGWQSs but significantly below established GCLs. No trihalomethanes were detected in samples collected during the three subsequent events. These compounds, when detected, are considered related to discharge of treated water and unrelated to petroleum products currently or previously used at the site. Petroleum-related constituents with concentrations above established NCGWQSs (primarily naphthalene and the C_9-C_{22} Aromatics) have been detected only at well MW-5, and concentrations at that well are significantly lower than established GCLs. Chromium was inconsistently detected; when detected, chromium concentrations were below the NCGWQS. Lead also was inconsistently detected. For samples in which possible laboratory contamination is not indicated, lead exceeded the NCGWQS only at well MW-5 for the December 2004 event; the lead concentration in this one sample may be associated with a relatively elevated amount of sediment in the sample. Neither the lead nor the chromium data exhibited spatial or temporal consistency, suggesting that, when detected, the low concentrations of the metals reflect natural aquifer conditions and not an on-site anthropogenic source.

The data indicate that no significant source remains at the site, and that impacts to groundwater by petroleum-related compounds are restricted to surficial aquifer groundwater in a limited area. EEI recommends continuing with groundwater monitoring at the site, with the gauging, sampling, and reporting frequency revised to one event per year.

SECTION 1
INTRODUCTION

On behalf of the Department of the Navy, Atlantic Division, Naval Facilities Engineering Command (NAVFACENGCOM), Engineering and Environment, Inc. (EEI) has prepared this annual groundwater monitoring report for Site BB-293, Marine Corps Base (MCB) Camp Lejeune. The report presents the findings of groundwater monitoring activities conducted quarterly from June 2004 through March 2005. This report and the methods used to acquire the data in support of this report have been prepared in accordance with the North Carolina Department of Environmental Resources (NCDENR), Division of Waste Management (DWM), Underground Storage Tank (UST) Section guidelines (NCDENR, 2001 and 2003b) and the site specific work prepared for this site by EEI (EEI, 2004a).

The site has been assigned incident # 32049 by NCDENR. NCDENR has placed the site into the High Risk classification.

1.1 Site Description

The site is located on MCB Camp Lejeune in Onslow County, North Carolina (N 34^{o} 34' 43", W 77^{o} 21' 45") (Catlin, 2001) (Figure 1-1). Within Camp Lejeune, the site is located east of Peach Street and north of Middle Street.

The site has served as a training facility for Basic Hygiene Equipment Operations since 1985. Training activities include field purification of raw water and operation of portable field laundry facilities. These activities involve the use of mobile gasoline and diesel powered equipment such as pumps, generators, water filtration units, etc. Building BB-293, located in the northern portion of the site, is a pump shed used for emergency storage of mobile equipment. Former UST BB-293-1 was installed in 1983 and closed by removal in 1996. The former 550-gallon UST had been used to store waste oil (Figure 1-2) (Catlin, 1998).

A water supply well is present at the site, located approximately 120 feet south of the former UST. The well is used to fill a retention pond at the site (Figure 1-2). Water is pumped from the pond for use during water purification training exercises and eventually is discharged to drainage swales at the site. The water is not used for drinking purposes. The closest active water supply well to the site is well BB-47, located approximately 1200 feet northwest of the site. A deactivated supply well, well BB-43, is located approximately 1100 feet northwest of the site. No other supply wells are within 1500 feet of the site. Wells BB-47 and BB-43 are installed into the Castle Hayne aquifer (Catlin, 1998).

The nearest mapped body of water is the New River. The river is located approximately 800 feet south-southwest of the site.

1.2 Site History

The site has been used as a training facility for field purification of raw water and operation of portable field laundry facilities since 1985. Former UST BB-293-1 was installed at the site in

1983 and was used for the storage of used oil. In January 1996, the 550-gallon UST BB-293-1 was closed by removal. Soil samples collected from the immediate vicinity of the former UST during the removal were analyzed for Total Petroleum Hydrocarbons (TPH) as Gasoline, TPH as Diesel, and Oil & Grease (O&G). TPH as Gasoline and TPH as Diesel were not detected. However, O&G concentrations exceeded NCDENR action levels in effect at that time. No free product was observed during the UST removal (Catlin, 1998).

Further site characterization field activities were initiated in 1996, and a Comprehensive Site Assessment (CSA) was submitted in 1998. Results of the CSA confirmed the presence of O&G in soils near the former UST at concentrations above NCDENR action levels then in effect. Additionally, elevated concentrations of several halogenated and aromatic volatile organic compounds (VOCs) were detected in a soil sample collected from borehole BB293-5 (advanced during installation of monitoring well MW-5). The VOC concentrations for this sample totaled approximately 20 milligrams per kilogram (mg/kg) and appeared to be petroleum related. However, they did not appear to be associated with the former UST. The VOC concentrations exceeded NCDENR reportable concentrations in effect at that time (Catlin, 1998). Reportedly, additional samples subsequently were collected near this location by Law Engineering and Environmental Services, and analysis of these samples did not detect any analytes (Catlin. 2001). It was concluded that the VOCs at this location probably were a result of accidental fuel spillage from portable gasoline and diesel powered equipment that are used at the training site (Catlin, 1998).

No free product was observed at the site during the CSA. However, three areas exhibited dissolved-phase petroleum-related constituents in surficial aquifer groundwater at concentrations above North Carolina Groundwater Quality Standards (NCGWQSs) in effect at that time. One area was located in the immediate vicinity of the former UST, and the presence of petroleum constituents in groundwater was attributed to the former UST. A second area was located approximately 50 feet south of the former UST. The origin of the petroleum constituents in groundwater at this area was uncertain, but it was considered possible that that they were related to the former UST. The third area was located approximately 100 feet east of the former UST, in the vicinity of monitoring well MW-5. The origin of the petroleum constituents detected at this location were not considered to be related to the former UST, but probably were a result of accidental fuel spillage from portable equipment used in the area, as discussed above (Catlin, 1998).

No petroleum-related constituents were detected in a groundwater sample collected during the CSA from the deep (Type III) monitoring well MW-1. This well was installed adjacent to the former UST and was screened into a limestone unit beneath a clay layer that underlies the surficial aquifer. Additionally, a groundwater sample collected from the pond supply well indicated no compounds were present at detectable concentrations (Catlin, 1998).

Some trihalomethane compounds (e.g., chloroform, dibromochloromethane, bromodichloromethane) were detected in CSA groundwater samples from several locations across the site. It was noted that trihalomethane compounds are typical byproducts of water purification treatments involving chlorine disinfection, and that these same processes are used extensively as part of the raw water field purification training programs conducted at the site,

with the treated water discharged to the drainage swales during the training programs. The presence of trihalomethane compounds in groundwater samples collected during the CSA was attributed to the discharge of the treated water produced during the raw water purification training exercises and was unrelated to the former UST (Catlin, 1998).

In 2001, additional soil and groundwater sampling was conducted during a Phase I Limited Site Assessment (LSA) at the site (Catlin, 2001). Four soil samples were collected in the vicinity of the former UST. (An attempt was made to collect a vadose zone soil sample adjacent to well MW-5; however, the upper two feet of material was gravel fill and the area was repeatedly flooded due to training activities, so a sample could not be collected in this area.) Analyses were conducted for Volatile Petroleum Hydrocarbons (VPH), Extractable Petroleum Hydrocarbons (EPH), VOCs, semi-volatile organic compounds (SVOCs), chromium (Cr), and lead (Pb). With the exception of Cr and Pb, no analytes were detected. Concentrations of Cr and Pb, where detected, were below all of the NCDENR Maximum Soil Contamination Concentration (MSCC) levels (including the commercial/industrial MSCC, the residential MSCC, and the soil-to-groundwater MSCC [NCDENR, 2001]) (Catlin, 2001).

During the 2001 investigation, no free product was observed at any site well. Groundwater samples were collected from the six site monitoring wells. (An attempt was made to collect a groundwater sample from the pond supply well, but the sampling port was inaccessible, and a sample was not collected.) Samples were analyzed for VOCs, SVOCs, VPH, EPH, Cr, and Pb. Lead and Cr were below NCGWQSs in all groundwater samples. The only VOCs detected at concentrations above NCGWQSs were chloroform and naphthalene, both reported for the sample from well MW-5. The only SVOC detected above NCGWQSs was naphthalene, again from well MW-5 (and separately quantitated as a VOC, as indicated above). The NCGWQS for the C_9-C_{22} Aromatic Fraction was exceeded at well MW-5, and potentially also at well MW-6 (The laboratory separately quantitates the C_9-C_{10} and C_{11}-C_{22} Aromatic Fractions. The former fraction was not detected at a detection limit of 100 micrograms per liter [ug/L], whereas the latter fraction was detected at 180 ug/L; therefore, the concentration could range from 180 ug/L to <280 ug/L; this range encompasses the NCGWQS of 210 ug/L.) All concentrations were below Gross Contaminant Levels (GCLs) established at the time. It was recommended that the site be considered for a "Low Risk" classification with Industrial/Commercial cleanup levels, as the pond well is not used for consumption purposes, constituents in soil are below MSCCs, and constituents in groundwater are below GCLs. It was further recommended that, should the site be classified as "Low Risk," the site would qualify for "No Further Action" status and should be considered for closure (Catlin, 2001).

In June 2003, NCDENR denied the Request for No Further Action, expressing concern about the presence of the pond supply well at the site. NCDENR recommended that groundwater monitoring be continued at the site, and that the monitoring program should include the pond supply well (NCDENR, 2003a).

In June 2004, the current groundwater monitoring program was initiated. The program includes quarterly well gauging at the six monitoring wells present at the site, and quarterly groundwater sampling at the six monitoring wells and the pond supply well. The first, second, and third quarter monitoring events were conducted by EEI in June, September, and December 2004 (EEI,

2004b, 2004c, and 2005). Field activities for the most recent (fourth) quarter were conducted by EEI in March 2005.

Data for the current monitoring program are discussed in the following sections. Section 2 describes field methods used at the site. Section 3 discusses hydrogeologic characteristics of the site. Laboratory analytical results and their significance are presented in Section 4. Section 5 provides conclusions and recommendations based on review of the data. References cited in the report are listed in Section 6. Figures and tables are organized after the text. Supporting documentation (field records, laboratory analytical reports, and historical data) are contained in Appendices A, B, and C, respectively.

SECTION 2
FIELD PROGRAM

Field methods employed during the groundwater monitoring program are discussed briefly below. Activities were conducted in accordance with NCDENR guidance (NCDENR, 2001 and 2003b) and as per the work plan (EEI, 2004a) which details the field methods.

2.1 Well Gauging

The following six monitoring wells were gauged quarterly on 4 June, 23 September, and 2 December 2004, and 7 March 2005: MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6. The pond supply well could not be gauged during the events as an access port for the gauging probe was not present. Field data gauging sheets are presented in Appendix A

Wells were gauged using an electronic interface probe to measure the depth to water and depth to product (if present). Data were recorded to the nearest 0.01 foot and referenced to the surveyed top of casing. For all gauging events, no measurable free product was observed in any of the site monitoring wells.

2.2 Groundwater Sampling

Groundwater samples were collected quarterly on 4 June, 23 September, 2 and 3 December 2004, and 7 and 8 March 2005 from the pond supply well and from the following six monitoring wells: MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6. One duplicate sample was collected during each quarterly field event. Field data sampling sheets for each quarterly event are presented in Appendix A.

Monitoring well groundwater samples were collected using low-flow purging techniques. A Grundfos Redi-Flo II stainless steel submersible pump discharging through polyethylene tubing was used to purge and sample the wells. The water level in the wells was periodically measured and recorded and, if necessary, the pumping rate was decreased to limit drawdown. Additionally, the pump intake height was adjusted as necessary. Water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded repeatedly during the purge. Purging was continued until water quality indicator parameters had stabilized or until a maximum of five well casing volumes had been purged. If a well purged to dryness, the well was allowed to recharge, and a sample then was collected. Well MW-1 was purged dry during the June and September 2004 events; well MW-5 purged dry during the September 2004, December 2004, and March 2005 events. Samples were collected immediately upon completion of the purge by filling the laboratory-prepared sample bottles directly from the discharge tubing. Samples were kept in an iced cooler from the time of collection until received by the laboratory.

The pond supply well is equipped with a permanently installed pump. Purging was conducted by activating the well's pump for a minimum 10 minute period. Samples were collected from the well's sampling port by opening the port, adjusting the flow from the port to achieve a slow, steady stream, allowing the flow from the port to continue for at least 30 seconds, and filling the

laboratory-prepared sample bottles. Samples were kept in an iced cooler from the time of collection until received by the laboratory.

Groundwater samples collected during this event were analyzed for the following parameters:

- VOCs, EPA Method 6210D (3x40 milliliter [ml] vials),
- Massachusetts Department of Environmental Protection (MADEP) - VPH (3 x 40 ml vials)
- SVOCs, EPA Method 625 + 10 largest non-target peaks (i.e., Tentatively Identified Compounds [TICs]) (2 x 1 liter [L])
- MADEP - EPH (2 x 1 L)
- Metals (Cr and Pb) –Method 6010B with preparation by Method 3030C (1 x 500 ml)

Samples were submitted under chain-of-custody to Paradigm Analytical Laboratories in Wilmington, North Carolina. Samples were delivered to the laboratory either via overnight commercial courier or were picked up by a laboratory courier.

2.3 Equipment Decontamination and Waste Handling Procedures

During each sampling event, the pump was decontaminated before first use and after each use by pumping a mixture of Alconox or Liquinox soap and potable water through the pump. The pump then was rinsed by pumping potable water through it, and final-rinsed with deionized (DI) water. New polyethylene tubing was used at each well.

Water quality meter flow-through cells and down-hole gauging equipment were decontaminated after each use by washing with an Alconox/DI water mixture, followed by a DI water rinse. The water quality probe was decontaminated with a DI rinse.

Well purge water and equipment decontamination water generated during the sampling event were contained in a portable holding tank. The water was processed through a groundwater treatment system located at Lot 203 on MCB Camp Lejeune. Used tubing and other miscellaneous material were collected and bagged as they were generated. This material was treated as normal solid waste and placed in EEI's refuse container at Lot 203.

2.4 Well Maintenance

During the sampling event, any brush, debris, and/or litter in the vicinity of the well heads were cleared. The well heads, casing risers, well pads, bollards, well caps, locks, etc. were inspected for damage or deterioration. During the monitoring program, all wells appeared to be undamaged and in serviceable condition.

SECTION 3
HYDROGEOLOGY

The hydrogeologic characteristics of the subsurface substantially control the movement of groundwater, which strongly influences contaminant movement. The regional geologic setting provides a framework for understanding and interpreting the site-specific hydrogeology. Knowledge of the latter allows for evaluating groundwater flow at a scale relevant to the monitoring program.

3.1 Regional Hydrogeology

The site is located in the eastern portion of the Coastal Plain Physiographic Province of North Carolina. The Coastal Plain consists of nearly flat to gently dipping sedimentary strata of varying composition that overlie a crystalline basement complex. Approximately 80 miles northwest of the site, the Coastal Plain pinches out where it contacts the Piedmont Physiographic Province along the Fall Line. East of the Fall Line, the sediments gradually thicken, reaching a maximum thickness of approximately 10,000 feet at Cape Hatteras, North Carolina. In the vicinity of the site, the sedimentary sequence is estimated to be approximately 2000 feet thick (NCGS, 1988).

Surficial deposits of Quaternary age are present in and around the area of the site, typically at thicknesses ranging from about 25 to 80 feet. The uppermost mapped unit in the area of the site is identified as the River Bend Formation of Tertiary age, described as a calcareous limestone interlaced with indurated sandy, molluscan limestone (NCGS, 1985). The River Bend Formation overlies the Castle Hayne Formation, also of Tertiary age. The Castle Hayne Formation is described as gray to cream colored, fine grained to fossiliferous calcareous limestone with minor amounts of fine quartz, glauconite, and phosphate (NCGS, 1988). The thickness of the Castle Hayne Formation in the vicinity of the site is estimated at approximately 300 feet. The Castle Hayne aquifer is a primary source of potable water for the area.

3.2 Site Hydrogeology

The topography of the site is predominantly flat. No permanent surface water bodies are present. The New River is the nearest mapped surface water body, located approximately 800 feet south-southwest of the site.

Shallow soil at the site is described as very fine to medium grained, moderate-to-moderately well sorted sand extending to a depth of approximately 20 feet below ground surface (bgs), within which a one-to-three foot thick sandy-to-very sandy peat layer was observed at a depth of approximately five feet bgs. Surficial aquifer groundwater was encountered between three and four feet bgs. Underlying the sand layer, a four-to-five foot thick gray clay of moderate-to-moderately high plasticity was encountered. It was not determined if this clay layer is continuous across the site. A layer of fine-to-medium grained, moderately well sorted sands underlies the clay layer, extending to a depth of approximately 34 feet bgs. Weathered limestone was encountered beneath the clay layer, and extends to a depth of at least 40 feet bgs (Catlin, 1998).

Of the six monitoring wells installed at the site, five are shallow wells (total depths of about 12 feet bgs) screened in the saturated shallow sands of the surficial aquifer. One well (MW-1) is a deep, dual-cased (Type III) well (total depth of about 49 feet bgs) screened in the limestone below the clay unit (Catlin, 1998).

Using the top-of-casing elevations and gauging data recorded quarterly, groundwater elevations for the site monitoring wells were calculated. Table 3-1 presents gauging data for the most recent (7 March 2005) event. Table 3-2 presents gauging data for all four quarterly gauging events conducted during the monitoring program.

The elevation data for the shallow wells were used to construct surficial aquifer groundwater elevation maps for each gauging event. From the maps, groundwater flow direction can be estimated. Figures 3-1, 3-2, and 3-3 present groundwater elevation maps for the first three quarterly gauging events and have been presented in previous quarterly monitoring reports (EEI, 2004b, 2004c, and 2005). Figure 3-4 presents the groundwater elevation map for the most recent gauging event.

From the maps, surficial aquifer groundwater generally flows to the north-northwest across the site, and has been consistent throughout the monitoring program. Previous investigations have indicated some variability in the flow direction, at times flowing west and north while at other times flow converged on drainage swales from the north and south (Catlin, 1998). It is considered likely that filling and discharging of the pond will influence surficial aquifer flow, and may account for the variability in the flow direction reported previously.

The horizontal gradient i is calculated using the standard equation $i = \Delta h / \Delta L$, where Δh is the change in head measured along the direction of groundwater flow, and ΔL is the straight-line distance between the measurement locations. As shallow wells MW-4 and MW-3 have been aligned closely with the groundwater flow direction during each of the quarterly gauging event and have exhibited a relatively steep gradient, data from these wells were used to calculate a conservative (maximum) horizontal gradient. For this well pair, ΔL = 45 feet. The quarterly groundwater elevation data for this well pair and the calculated horizontal gradient are summarized below:

Event	MW-4 GW Elev	MW-3 GW Elev	Δh	i
June 2004	6.18	5.74	0.44	0.010
September 2004	6.66	5.64	1.02	0.023
December 2004	6.26	5.75	0.51	0.011
March 2005	6.05	5.69	0.36	0.0080

Notes:
GW Elev: Groundwater Elevation, expressed in feet above/below mean sea level
Δh: head differential, expressed in feet
ΔL: horizontal separation
i: horizontal gradient, dimensionless

From the above, shallow well horizontal gradients have exhibited relatively little variation during the monitoring program. The gradients range from 0.008 to 0.023, with three of the four events varying by less than +/- 20 percent.

The groundwater linear flow velocity V is calculated using the standard equation $V = (Ki) / n_e$, where *i* is the horizontal gradient (discussed above), K is the hydraulic conductivity, and n_e is the effective porosity. Previous investigations have provided estimates of K and n_e based on aquifer (slug) testing and examination of subsurface soil samples, respectively. The investigations identified a K of 29.3 feet/day and a n_e of 0.20 (dimensionless) for the site (Catlin, 1998). Using these values and the horizontal gradient calculated above, the flow velocities for each of the gauging events have been calculated, as summarized below:

Event	*i*	V
June 2004	0.010	1.5 feet/day
September 2004	0.023	3.4 feet/day
December 2004	0.011	1.6 feet/day
March 2005	0.0080	1.2 feet/day

Notes:
i: horizontal gradient, dimensionless
V: linear flow velocity, feet per year

From the above, the groundwater linear flow velocities vary little over time, due to the limited variation in gradient, as discussed above. The calculated velocities do not account for tortuosity (a parameter describing the deviation from a straight line flow path as groundwater moves around and between grains of soil). Consequently, at scales comparable to the size of the site, the linear velocity will overestimate the effective distance groundwater will travel for a given period of time.

Groundwater elevation data for the deeper, limestone unit are available from a single well (MW-1). Consequently, there are insufficient groundwater elevation data to estimate a flow direction for groundwater in this unit.

Deep well MW-1 is located approximately 10 feet from shallow well MW-6. From the elevation data in Table 3-2, the groundwater elevation in deep well MW-1 is lower than the groundwater elevation in shallow well MW-6 for each of the quarterly gauging events, typically by about 1.1 to 1.5 feet. This indicates a limited potential for downward movement of surficial aquifer groundwater. However, given that elevation differences are observed at the well pair, it appears that vertical hydraulic communication is inhibited and suggests that the clay layer may be acting as a semi-confining unit (should the unit be laterally extensive). As such, vertical flow between the groundwater of the surficial aquifer and the groundwater of underlying limestone unit would be retarded.

SECTION 4
LABORATORY ANALYTICAL RESULTS

Groundwater samples were collected quarterly in June, September, and December 2004, and March 2005 from site monitoring wells MW-1 through MW-6 and from the pond supply well. Additionally, one duplicate groundwater sample was collected each quarter. Groundwater samples were analyzed by Paradigm Analytical Laboratories for VOCs (EPA Method 8210D), SVOCs (EPA Method 625), MADEP VPH, MADEP EPH, and Metals (Cr and Pb, Method 6010B with 3030C preparation). Appendix B presents the laboratory analytical reports for each quarterly sampling event.

4.1 Groundwater Analytical Results

Table 4-1 summarizes the laboratory analytical results for groundwater samples collected during the most recent (March 2005) sampling event. Table 4-2 presents laboratory analytical results for each of the quarterly sampling events conducted during the annual monitoring program. For the VOCs and SVOCs, the tables list only those analytes detected at one or more wells during the current or previous sampling events.

4.1.1 Groundwater Analytical Results for Organic Compounds

For the most recent quarter, no target organic analytes were detected in well MW-1 and MW-6, respectively the deep and shallow wells located adjacent to the former UST. At well MW-1 one SVOC TIC, identified only as "unknown", was reported at an estimated concentration of 7.9 ug/L, (Table 4-1). (TICs are substances not on the target compound list, and not all TICs are identified and quantitated using individual standards. Frequently, TICs cannot be identified as specific compounds, and are reported as compound isomers or unknown. Some TICs were noted as having been added by the laboratory; where reported, these constituents have been excluded from the total TICs reported in Tables 4-1 and 4-2. All TIC quantitations are estimated.) Throughout the monitoring program, these two wells have exhibited few or no target organic analytes; when detected, these analytes have been at low concentrations (less than two ug/L) and have been substantially below NCGWQSs and GCLs (Table 4-2).

Monitoring well MW-2, located downgradient of the former UST, did not exhibit any organic analytes above reporting limits during the most recent sampling event. One SVOC TIC, identified only as "unknown," was reported at an estimated concentration of 6.8 ug/L.

At the pond supply well, located cross-gradient to the former UST, the only target organic analyte detected was methylene chloride, reported at an estimated concentration of 0.420 ug/L, substantially below the NCGWQS of 5 ug/L and the GCL of 5,000 ug/L (Table 4-1). Methylene chloride has not been detected at this location or at any other site well in any previous sampling event. Methylene chloride also was detected in the trip blank (at an estimated concentration of 0.700 ug/L). As methylene chloride is a common laboratory contaminant, and given the presence of methylene chloride in the trip blank, the reporting of this compound in the pond well sample is considered reflective of a laboratory artifact and is not significant. One SVOC TIC, identified only as "unknown," was reported at an estimated concentration of 7.85 ug/L.

Throughout the monitoring program, no target organic analytes have been detected in the pond supply well (Table 4-2).

At well MW-3, located cross-gradient to downgradient of the former UST, only two target organic analytes were detected during the most recent sampling event, both at low estimated concentrations. Naphthalene was reported at an estimated concentration of 0.290 ug/L (NCGWQS of 21 ug/L, GCL of 15,500 ug/L), and isopropylbenzene was reported at an estimated concentration of 0.220 ug/L (NCGWQS of 70 ug/L, GCL of 25,500 ug/L).

Data from the three previous quarters similarly have indicated few organic compounds were present at well MW-3. In December 2004, sec-butylbenzene, isopropylbenzene, naphthalene, toluene, total xylene isomers, and 4-isopropyltoluene were detected, all at concentrations less than two ug/L. With the exception of 4-isopropyltoluene, reported at a concentration of 0.840 ug/L, the compounds are all substantially below NCGWQSs. A NCGWQS has not been established for 4-isopropyltoluene. Therefore, the standard is set at the reporting limit, and consequently the detection of 4-isopropytoluene is by definition above the standard. A GCL has not been established for 4-isopropyltoluene. In September 2004, the only target organic analyte detected was toluene, reported at a concentration of 0.560 ug/L in the primary sample and at an estimated concentration of 0.480 ug/L in the duplicate sample. The reported concentrations are substantially below the NCGWQS and GCL for toluene (1000 ug/L and 257,500 ug/L, respectively).

In June 2004, the sample collected from well MW-3 identified toluene, reported at a low estimated concentration of 0.180 ug/L. Four trihalomethane compounds (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) were reported at concentrations ranging from 7.8 ug/L to 2.66 ug/L. The reported concentrations exceeded their respective NCGWQSs (or Interim Maximum Allowable Concentration for dibromochloromethane), all of which have been established at levels less than one ug/L (Table 4-2). As discussed in Section 1.2, trihalomethanes are common byproducts of water treatment/purification processes, including the treatment processes used during training exercises at the site. The presence of trihalomethanes detected in groundwater in June 2004 is considered related to discharge of water treated during training exercises and is unrelated to the former UST. The absence of these compounds in the subsequent quarter's samples likely reflects sporadic discharges of treated water onto the ground surface. Figure 4-1 presents groundwater trihalomethane concentrations in groundwater for June 2004.

The annual monitoring program data indicate surficial aquifer groundwater has not been affected substantially by the former UST. Additionally, groundwater in the underlying limestone unit has not been affected by site activities.

At well MW-4, located upgradient of the former UST, 4-isopropyltoluene was at an estimated concentration of 0.220 ug/L in the primary and duplicate samples collected in March 2005. As discussed above, a NCGWQS has not been established for 4-isopropyltoluene. Hence, the standard is set at the reporting limit, and the detection of 4-isopropytoluene is above the standard. Methylene chloride (NCGWQS of 5 ug/L, CGL of 5,000 ug/L) was reported in the duplicate sample at an estimated concentration of 0.180 ug/L, but was not detected in the

primary sample (reporting limit of 5 ug/L). As indicated above, methylene chloride has not been reported for any site well during any previous sampling event, was detected in the March 2005 trip blank, and is a common laboratory contaminant. Consequently, the reporting of this compound in the MW-4 sample is considered reflective of a laboratory artifact and is not significant.

Sampling conducted at well MW-4 over the three previous quarters have identified some organic analytes, typically at concentrations below one ug/L. Of the detected organic analytes, only 4-isopropyltoluene exceeded NCGWQSs, with concentrations ranging from 0.370 ug/L (estimated) to 0.880 ug/L. As noted above, a NCGWQS has not been established for 4-isopropyltoluene, and therefore any detection of the compound is, by definition, above the standard.

Various organic analytes were detected in the March 2005 sample collected at well MW-5, including nine SVOC TICs. Only one of the TICs was identified as a specific compound, with 1-Methylnaphthalene reported at an estimated concentration of 78 ug/L (Table 4-1). Neither a NCGWQS nor a GCL are established for 1-methylnaphthalene. Therefore, the standard is set at the reporting limit, and any detection of 1-methylnaphthalene is above the standard. Given the uncertainties associated with TIC quantitation, a reduced level of confidence in the reported concentration is warranted, and the significance of the data is limited.

Of the target organic analytes detected at well MW-5 for March 2005, only 4-isopyltoleune, naphthalene, and the C_9-C_{22} Aromatics were reported at concentrations above NCGWQSs (Table 4-1). 4-Isoproyltoluene was reported at a concentration of 5.20 ug/L and, as indicated previously, there is no NCGWQS for the compound, so that detection of the analyte is considered to be above the standard. Naphthalene was detected by both the VOC and SVOC methods, at concentrations of 107 ug/L and 106 ug/L, respectively. Both reported concentrations are above the NCGWQS (of 21 ug/L), and both are significantly below the GCL (of 15,500 ug/L). A concentration of 1,000 ug/L was reported for the C_9-C_{22} Aromatics (presented in Table 4-1 as the sum of the individually quantitated VPH C_9-C_{10} Aromatic Fraction and the EPH C_{11}-C_{22} Aromatic Fraction). This concentration is above the NCGWQS of 210 ug/L for the C_9-C_{22} Aromatics. A GCL has not been established for the C_9-C_{22} Aromatics.

Analytical results from the three previous quarters at well MW-5 are similar to those observed in March 2005. Various TICs were reported for the samples, most of which were not identified as specific compounds. Camphor, 1-methylnapthlanene, and molecular sulfur were reported (as TICs) for samples collected between June and December 2004 (Table 4-2). None of these compounds have established NCGWQSs; therefore, detection of the compounds is above the standard. In December 2004, 2-methylnaphthalene was reported as a TIC at a concentration of 29.1 ug/L, slightly above the NCGWQS of 14 ug/L and substantially below the GCL of 12,500 ug/L. Given the uncertainties associated with TIC quantitation, a reduced level of confidence in the reported concentration is warranted, and the significance of the data is limited.

Various target organic analytes were detected at well MW-5 over the previous three quarters, of which only 4-isopropyltoluene, naphthalene, and the C_9-C_{22} Aromatics have been reported above NCGWQSs. 4-Isopropyltoluene was reported at concentrations of 2.45 ug/L, 1.44 ug/L, and 10.4 ug/L for June, September, and December 2004, respectively, similar to the 5.20 ug/L

reported in March 2005 (Table 4-2). As noted, a NCGWQS has not been established for 4-isopropyltoluene, so detection at any concentration is above the standard. Naphthalene concentrations for the previous three quarters (quantitated by the VOC and SVOC methods) have ranged from 33.8 ug/L to 180 ug/L, a range which encompasses the March 2005 results (of 107 ug/L and 106 ug/L for the VOC and SVOC quantitations, respectively). These concentrations exceed the NCGWQS for naphthalene, but are substantially below the GCL for naphthalene of 15,500 ug/L.

For the C_9-C_{22} Aromatics, June and December 2004 concentrations of 820 ug/L and 830 ug/L were reported, similar to the 1,000 ug/L concentration reported for March 2005. For September 2004, the C_9-C_{22} Aromatics concentration was relatively lower, reported at 200 ug/L (Table 4-2). The June 2004, December 2004, and March 2005 concentrations exceed the C_9-C_{22} Aromatics NCGWQS of 210 ug/L, whereas the September 2004 datum is below the NCGWQS. A GCL has not been established for the C_9-C_{22} Aromatics.

Figures 4-2 through 4-5 respectively present naphthalene concentrations in shallow groundwater for the June 2004, September 2004, December 2004, and March 2005 sampling events. (In preparing the naphthalene concentration maps, the higher value of the VOC and SVOC quantitations was used.) Figures 4-6, 4-7, and 4-8 present the C_9-C_{22} Aromatics concentrations in shallow groundwater for the June 2004, December 2004, and March 2005 sampling events. The maps illustrate the limited extent of these constituents, with concentrations at or above the NCGWQS limited to the immediate vicinity of well MW-5. Additionally, the maps indicate the former UST is not affecting groundwater quality.

4.1.2 Groundwater Analytical Results for Inorganic Compounds

The inorganic constituents lead and chromium were included in the analytic suite during the monitoring program. For the March 2005 sampling event, lead was not detected except at the pond well and well MW-4. At the pond well, lead was reported at an estimated concentration of 1.38 ug/L; at well MW-4, lead was reported at an estimated concentration of 1.21 ug/L in the primary sample but was not detected at a reporting limit of 10 ug/L in the duplicate sample (Table 4-1). These concentrations are substantially below the NCGWQS of 15 ug/L and the GCL for lead of 15,000 ug/L. Chromium was reported at low estimated concentrations (typically less than one ug/L) in all of the March 2005 samples except for the primary sample collected at well MW-4. However, chromium also was reported in the laboratory blank associated with the samples (Table 4-1). The reported concentrations all are substantially below the NCGWQS of 50 ug/L and the GCL of 50,000 ug/L for chromium. Given the low concentrations reported and the presence of chromium in the laboratory blank, the chromium data are not considered significant and likely are reflective of a laboratory artifact.

Data from the three previous quarters also indicated an inconsistent presence of lead and chromium (Table 4-2). In December 2004, chromium was reported only at well MW-2, at a low (estimated) concentration of 0.340 ug/L (below the NCGWQS of 50 ug/L). Lead was reported in all samples, typically at low (estimated) concentrations below the NCGWQS of 15 ug/L, although the sample from well MW-5 exhibited a lead concentration of 19.0 ug/L, slightly above the NCGWQS and substantial below the GCL of 15,000 ug/L. It was observed that the sample

collected from well MW-5 for the December 2004 event exhibited high turbidity relative to other samples collected during the event, and, as chromium and lead are naturally occurring elements in soil and groundwater, the elevated lead concentration may have been indicative of a higher contribution of lead from the relatively greater suspended sediment content in the sample. (Although well MW-5 was purged at a flow rate of approximately 0.13 gallon per minute, the well went dry after only one purge volume had been removed, and the turbidity in the sample was high at 86.2 nephelometric units, greater than observed for samples from the other site wells.) Figure 4-9 illustrates the limited extent of lead in December 2004, with the lead concentration above the NCGWQS only at well MW-5. The figure further illustrates the former UST is not affecting groundwater quality.

In September 2004, lead and/or chromium were detected at several wells at the site. Concentrations were below NCGWQS except for lead, which was reported above the NCGWQS at wells MW-1 (15.4 ug/L) and MW-5 (26.9 ug/L). However, both metals were detected in the laboratory blank. Consequently, the reported presence of the metals in the samples is not considered significant and likely reflects a laboratory artifact.

In June 2004, chromium was reported in well MW-5 at a concentration of 39.4 ug/L, below the NCGWQS of 50 ug/L and the GCL of 50,000 ug/L. Chromium was not detected in any other sample for the June event, and lead was not detected at any location in June.

In general, the reported concentrations of lead and chromium over the four quarterly sampling events do not exhibit consistent patterns, either over time or in spatial distribution. The presence of lead and chromium in laboratory blanks suggests that the reported presence of these metals in several samples is a laboratory artifact. For samples in which possible laboratory contamination is not indicated, the data again do not exhibit spatial or temporal consistency, suggesting that, when detected, the low concentrations of the metals reflect natural aquifer conditions and not an anthropogenic source.

4.1.3 Groundwater Analytical Results from Previous Investigations

The groundwater quality data reported for the current monitoring program are consistent with previous site data reported from the CSA and the LSA (Catlin, 1998 and 2001). (Appendix C presents historical groundwater quality data for site monitoring wells, reproduced from Catlin, 1998 and 2001). As with the current monitoring program, previous investigations have reported elevated concentrations at well MW-5 relative to other wells at the site. The current data generally exhibit concentrations similar to data reported from the LSA, which in turn reported lower concentrations than from the earlier CSA (Catlin, 1998 and 2001).

Data from the previous investigations also identified trihalomethanes at various locations (including well MW-5 during the LSA and wells MW-1, MW-3, and MW-6 during the CSA), whereas the current and previous quarter data did not detect trihalomethanes, and the first quarter data detected trihalomethanes only at well MW-3. As with the variation over time in trihalomethane concentrations, the spatial variation is not unexpected given that the presence of these compounds is associated with sporadic discharges of treated water onto the ground surface at variable locations.

Groundwater concentration data for lead and chromium from previous investigations indicate that these metals, when detected, were present at concentrations below NCGWQS. Detectable concentrations for chromium and/or lead were reported at well MW-2, MW-3, and MW-6. The historical metals data are consistent with that from the current program in that the presence of these metals in groundwater did not appear to have anthropogenic origin.

4.2 Quality Assurance/Quality Control and Data Verification

Quality control (QC) samples collected during the monitoring program included laboratory-supplied trip blanks and field duplicate samples. Trip blanks were submitted to Paradigm Analytical Laboratories for analysis for VOCs only. With the exception of the March 2005 trip blank, no VOCs were reported in the samples. For the trip blank included with the March 2005 event, methylene chloride was reported at a concentration of 0.700 ug/L. As discussed above, methylene chloride is a common laboratory contaminant, and its presence in the March 2005 trip blank is considered reflective of a laboratory artifact.

Field duplicate samples were collected from wells MW-2 (June 2004), MW-3 (September 2004), MW-6 (December 2004), and MW-4 (March 2005). The primary and QC samples were submitted to Paradigm Analytical Laboratories for the same analyses. Results for each of the primary/duplicate sample sets generally were consistent. However, for the March 2005 primary/duplicate pair (collected from well MW-4), methylene chloride and chromium were reported in the duplicate sample (estimated concentrations of 0.180 ug/L and 0.400 ug/L, respectively) but were not detected in the primary sample (respective reporting limits of 5.00 ug/L and 10.0 ug/L). (As discussed previously, chromium was also reported in the laboratory blank for the March 2005 samples.) Additionally, lead was reported in the primary sample (estimated concentration of 1.21 ug/L) but was not reported in the duplicate sample (reporting limit of 10.0 ug/L).

Data verification was performed by EEI on the complete set of the primary investigative samples, and included a review of the following:

- Holding times
- Blanks
- Laboratory control spikes
- Surrogate recoveries
- Internal standards
- Calibrations

An assessment of the results indicated the data are usable for project purposes.

SECTION 5
CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations have been developed based on a review of site data. Each is discussed below.

5.1 Conclusions

The following conclusions have been drawn based on site data:

- Surficial aquifer groundwater flows to the north-northwest across the site. Data from previous investigations indicate the flow direction is variable.
- A downward vertical gradient is present between groundwater of the surficial aquifer and groundwater of an underlying limestone unit. Potential downward flow of surficial aquifer groundwater may be retarded due to the presence of a clay unit, should the unit be laterally extensive.
- A previous investigation indicated constituent concentrations in soil are below NCDENR Soil-to-Groundwater Maximum Concentrations.
- No measurable free product has been observed in any monitoring well at the site during the current monitoring program or previous investigations.
- During the monitoring program, chromium was inconsistently detected; when detected, chromium concentrations were below the NCGWQS. Lead also was inconsistently detected. For samples in which possible laboratory contamination is not indicated, lead exceeded the NCGWQS only at well MW-5 for the December 2004 event; the lead concentration in this one sample may be associated with a relatively elevated amount of sediment in the sample. Neither the lead nor the chromium data exhibited spatial or temporal consistency, suggesting that, when detected, the low concentrations of the metals reflect natural aquifer conditions and not an on-site anthropogenic source.
- Deep monitoring well MW-1, screened in the groundwater of the limestone unit and located adjacent to the former UST, produced few detectable organic compounds during the monitoring program. When detected, the organic compounds were present at concentrations typically two-to-three orders of magnitude below the NCGWQS, indicating deep groundwater has not been affected by site activities.
- Other than methylene chloride, reported in March 2005 at a low estimated concentration and considered to be a laboratory artifact, no target organic analytes were detected in the pond supply well, indicating there has been no impact to this well. The well is not used for consumption purposes.
- Trihalomethanes detected at the site during previous investigations were present only during the June 2004 event. No trihalomethanes were detected during the three subsequent quarterly monitoring events. These compounds, when detected, are considered related to the discharge of treated water and are unrelated petroleum products currently or previously used at the site.
- Well MW-5 exhibited elevated constituent concentrations relative to other wells at the site during the annual monitoring program, consistent with historical data. Naphthalene and the C_9-C_{22} Aromatics were the only target organic analytes detected in groundwater at concentrations above established NCGWQSs, and the compounds exceeded the

NCGWQSs only at well MW-5. Analyte concentrations are significantly lower than GCLs for compounds with established GCLs.

- The former UST is not affecting groundwater quality. The absence of free product, the limited extent of petroleum-related compounds, and analyte concentrations significantly lower than GCLs indicate that no significant source remains at the site.

5.2 Recommendations

It is recommended to continue with groundwater monitoring at the site. Given that free product has not been present at the site, that dissolved phase constituent concentrations are substantially below GCLs, and that the few target organic compounds detected at concentrations above NCGWQSs typically are limited to well MW-5, it is recommended to reduce the monitoring frequency to one gauging/sampling/reporting event per year. Those wells gauged and sampled during this monitoring program should continue to be included in the recommended monitoring program. Similarly, the analytic suite employed during this monitoring program should continue to be employed in the recommended program.

SECTION 6
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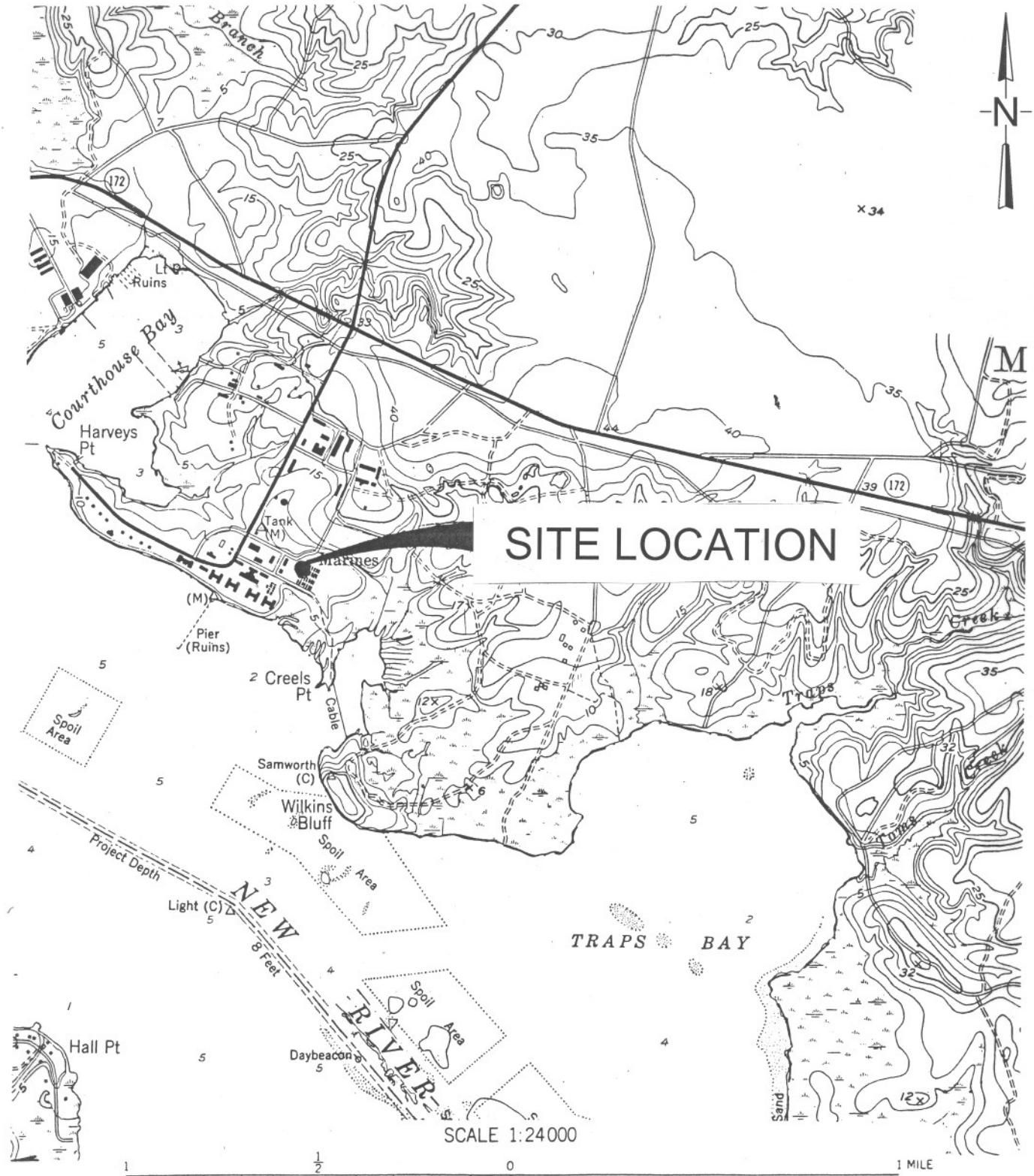
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FIGURES



NEW RIVER INLET, N. C.

N3430—W7715/7.5

1952
PHOTOREVISED 1971
AMS 5553 III SE—SERIES V842



QUADRANGLE LOCATION

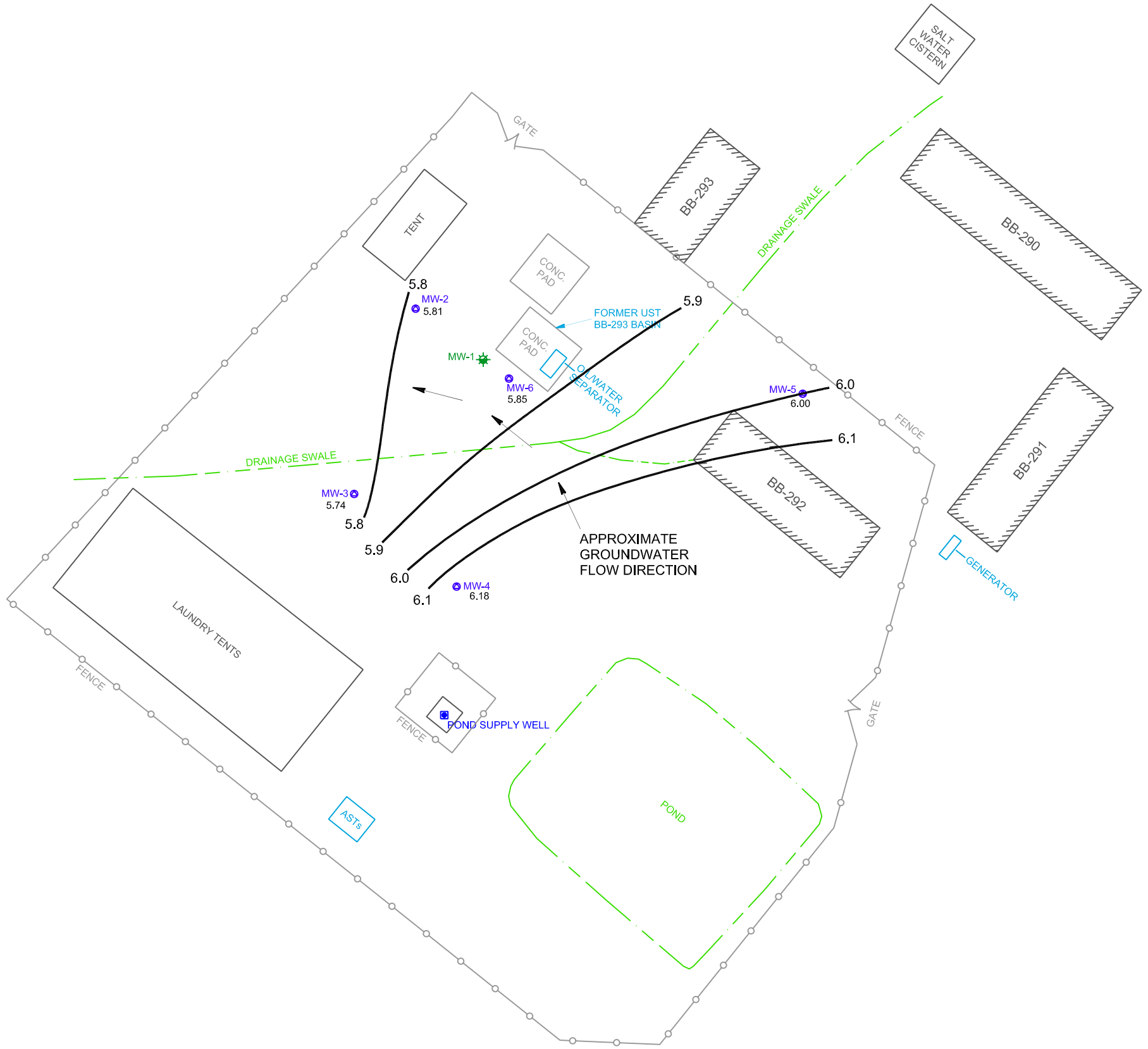
(Map adapted from Catlin, 1998)

FIGURE	1-1
DATE	6/21/04
REVISION	0
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FILE	BB293_TOPO

Engineering & Environment, Inc.

SITE LOCATION

SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 5.81 SURFICIAL AQUIFER GROUNDWATER ELEVATION
- 6.0 SURFICIAL AQUIFER GROUNDWATER ELEVATION CONTOUR

(GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL)

SCALE (Feet)

20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	3-1
DATE	6/21/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER GROUNDWATER ELEVATIONS FOR 4 JUNE 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 5.81 SURFICIAL AQUIFER GROUNDWATER ELEVATION
- 6.0 SURFICIAL AQUIFER GROUNDWATER ELEVATION CONTOUR

(GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL)

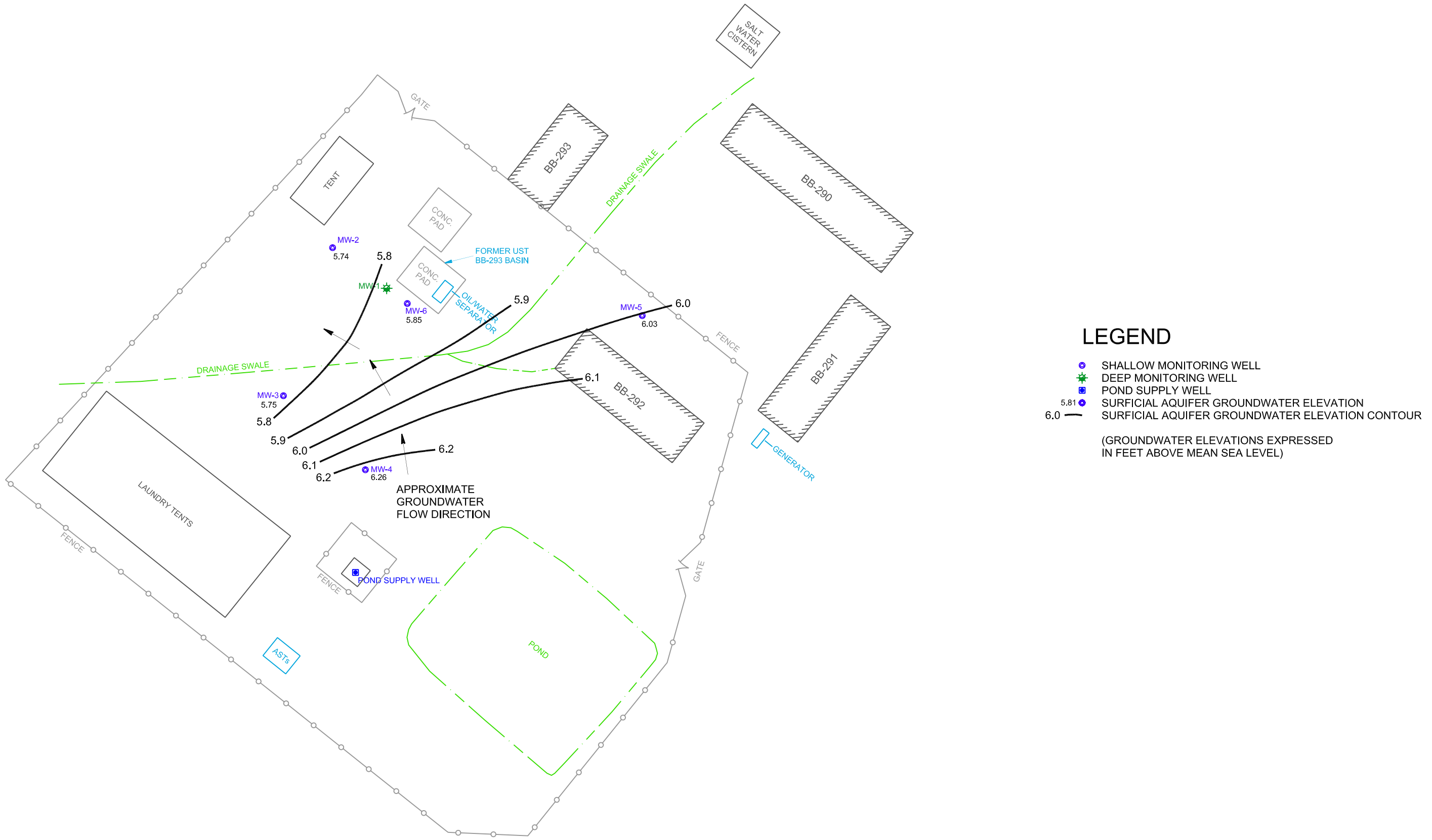
SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	3-2
DATE	10/29/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER GROUNDWATER ELEVATIONS FOR 23 SEPTEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 5.81 SURFICIAL AQUIFER GROUNDWATER ELEVATION
- 6.0 SURFICIAL AQUIFER GROUNDWATER ELEVATION CONTOUR

(GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL)

SCALE (Feet)

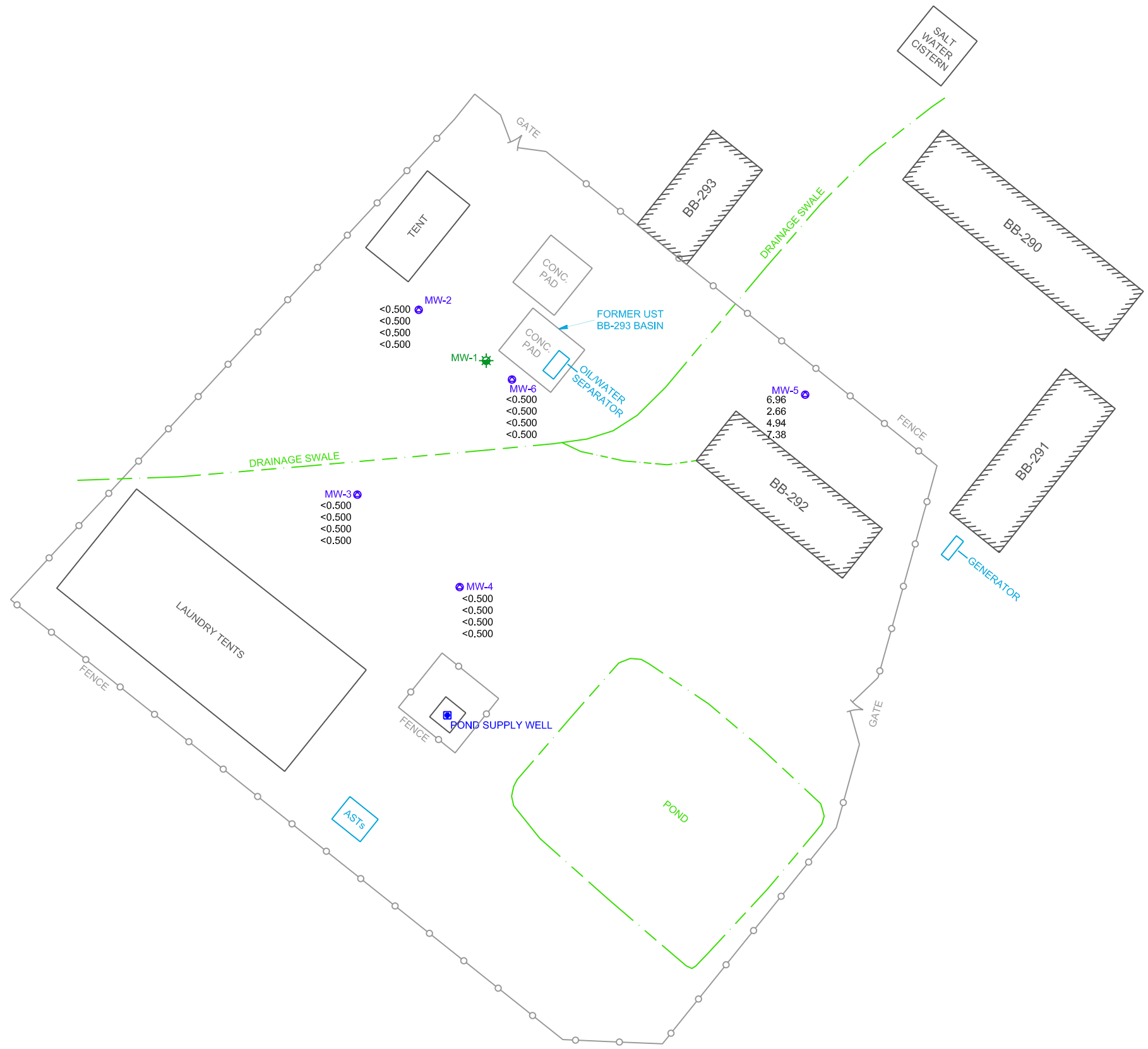
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	3-3
DATE	01/11/05
REVISION	0
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FILE	BB293_MAP

SURFICIAL AQUIFER GROUNDWATER ELEVATIONS FOR 2 DECEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



(Base map adapted from Catlin, 1998)

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- SURFICIAL AQUIFER CONCENTRATIONs FOR:
  - 6.96 BROMODICHLOROMETHANE
  - 2.66 BROMOFORM
  - 4.94 CHLOROFORM
  - 7.38 DIBROMOFORM

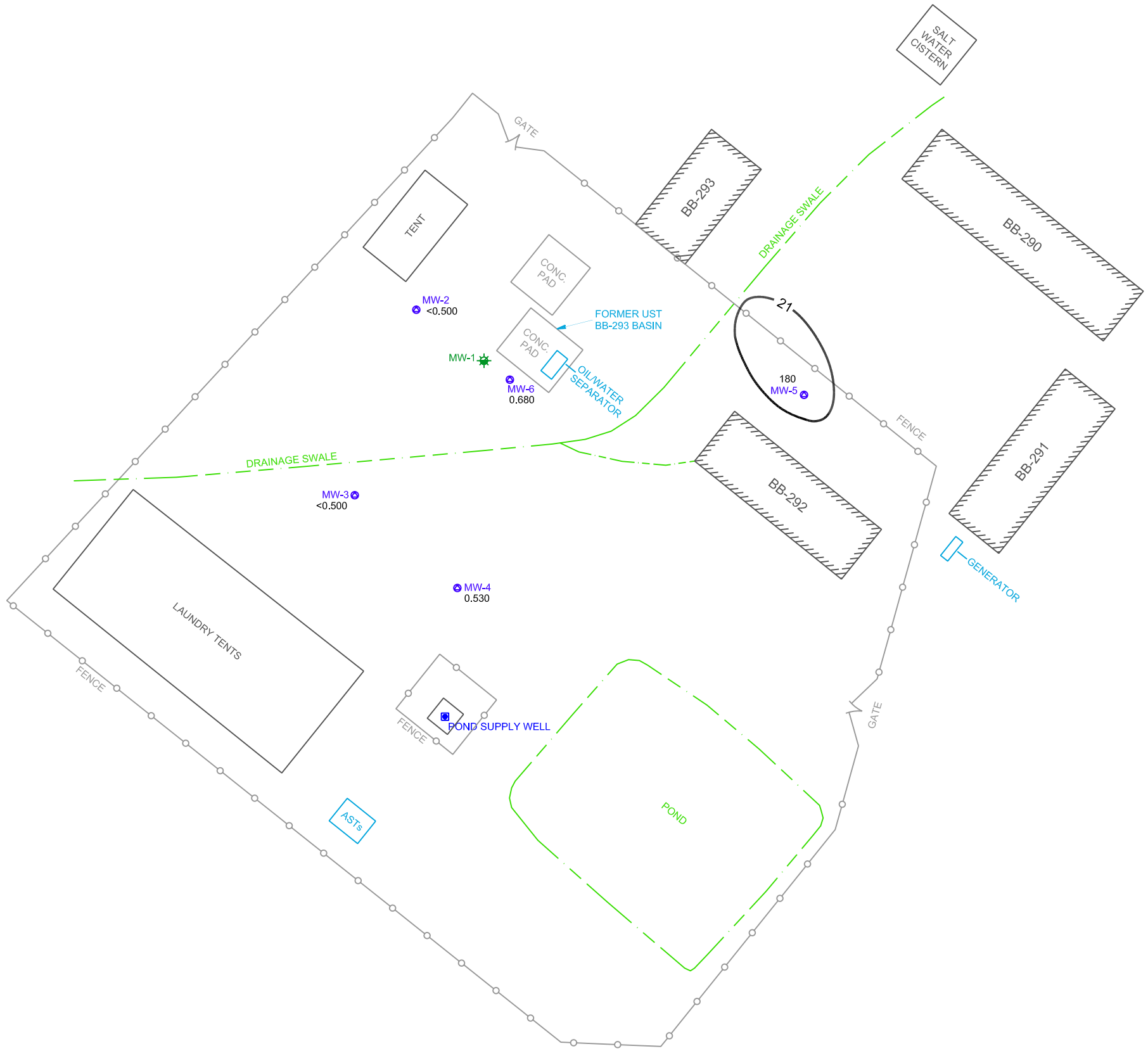
(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
NORTH CAROLINA GROUNDWATER QUALITY STANDARDS ARE:
BROMODICHLOROMETHANE - 0.56 MICROGRAM PER LITER
BROMOFORM - 0.19 MICROGRAM PER LITER
CHLOROFORM - 0.19 MICROGRAM PER LITER
DIBROMOCHLOROMETHANE - 0.56 MICROGRAM PER LITER (INTERIM)

SCALE (Feet)
20 0 20 40

Engineering & Environment, Inc.

FIGURE	4-1
DATE	6/21/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
TRIHALOMETHANE CONCENTRATIONS
FOR JUNE 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 96.5 SURFICIAL AQUIFER NAPHTHALENE CONCENTRATION
- 21 SURFICIAL AQUIFER NAPHTHALENE ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR NAPHTHALENE IS 21 MICROGRAMS PER LITER)

SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-2
DATE	6/21/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
NAPHTHALENE CONCENTRATIONS
FOR JUNE 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 96.5 SURFICIAL AQUIFER NAPHTHALENE CONCENTRATION
- 21 SURFICIAL AQUIFER NAPHTHALENE ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR NAPHTHALENE IS 21 MICROGRAMS PER LITER)

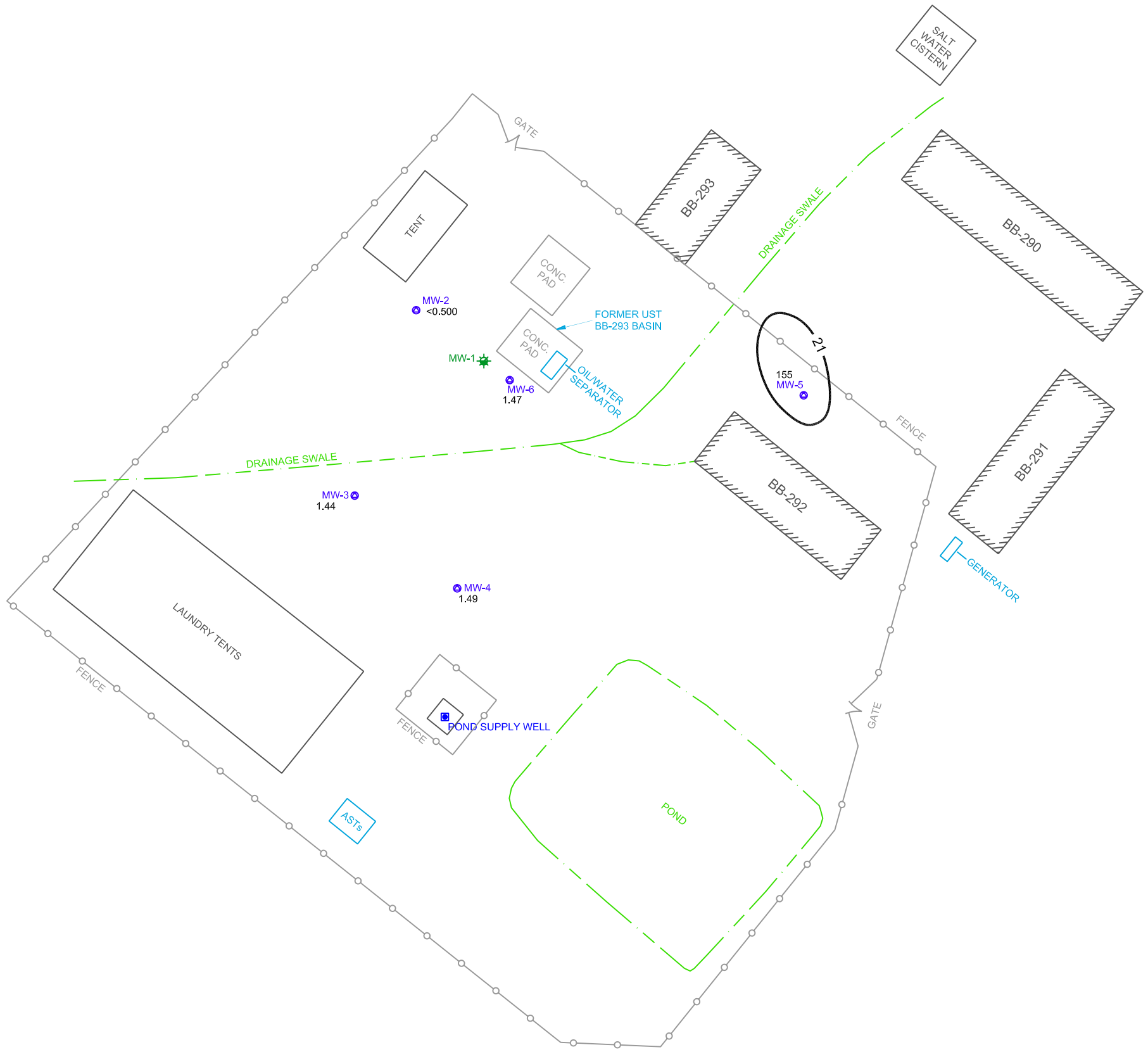
SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-3
DATE	10/29/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
NAPHTHALENE CONCENTRATIONS
FOR SEPTEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 96.5 SURFICIAL AQUIFER NAPHTHALENE CONCENTRATION
- 21 SURFICIAL AQUIFER NAPHTHALENE ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR NAPHTHALENE IS 21 MICROGRAMS PER LITER)

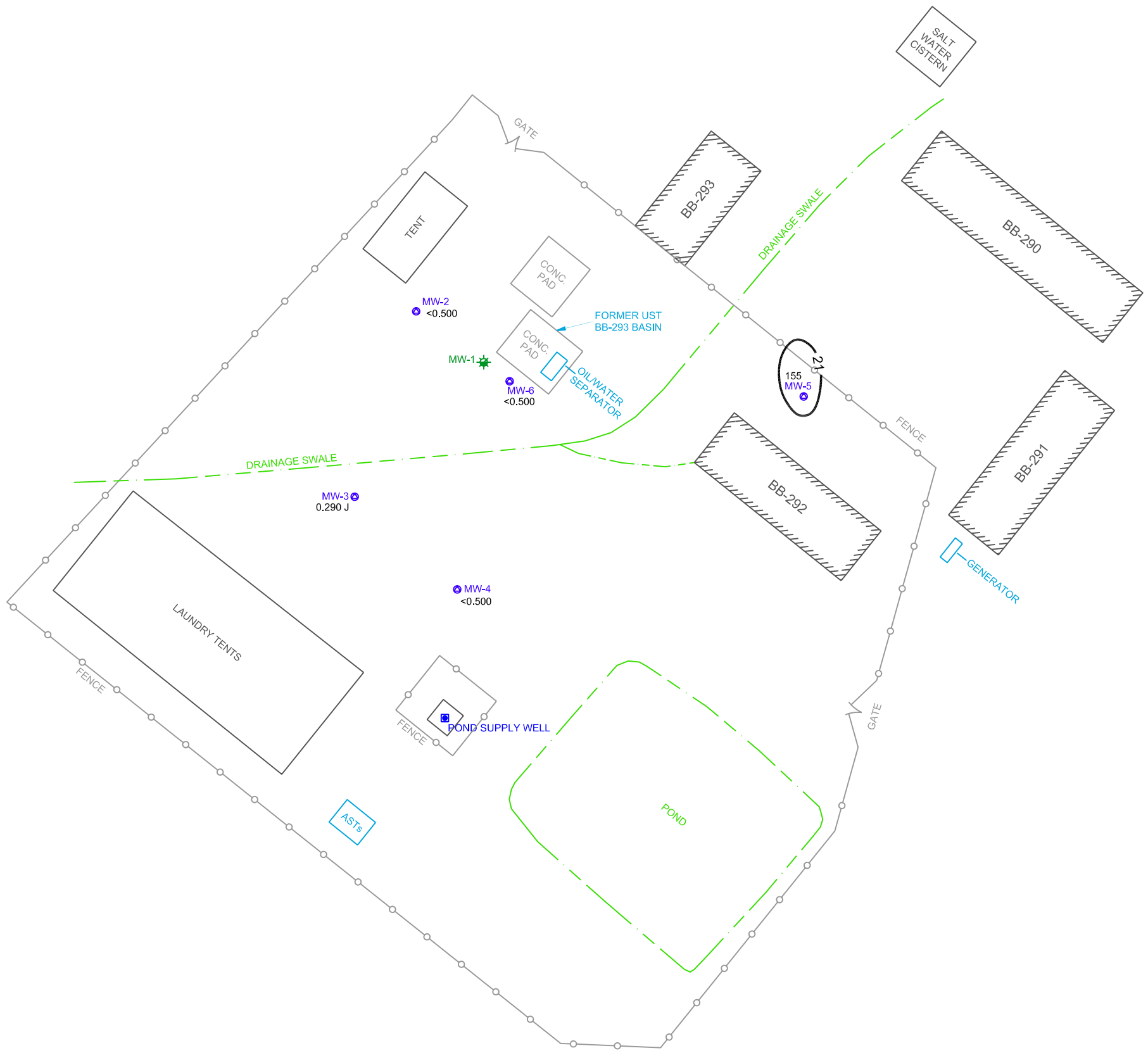
SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-4
DATE	01/11/05
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
NAPHTHALENE CONCENTRATIONS
FOR DECEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 96.5 SURFICIAL AQUIFER NAPHTHALENE CONCENTRATION
- 21 SURFICIAL AQUIFER NAPHTHALENE ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR NAPHTHALENE IS 21 MICROGRAMS PER LITER)

SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-5
DATE	05/10/05
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
NAPHTHALENE CONCENTRATIONS
FOR MARCH 2005
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 1140 SURFICIAL AQUIFER C9-C22 AROMATICS CONCENTRATION
- 210 SURFICIAL AQUIFER C9-C22 AROMATICS ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR C9-C22 AROMATICS IS 210 MICROGRAMS PER LITER)

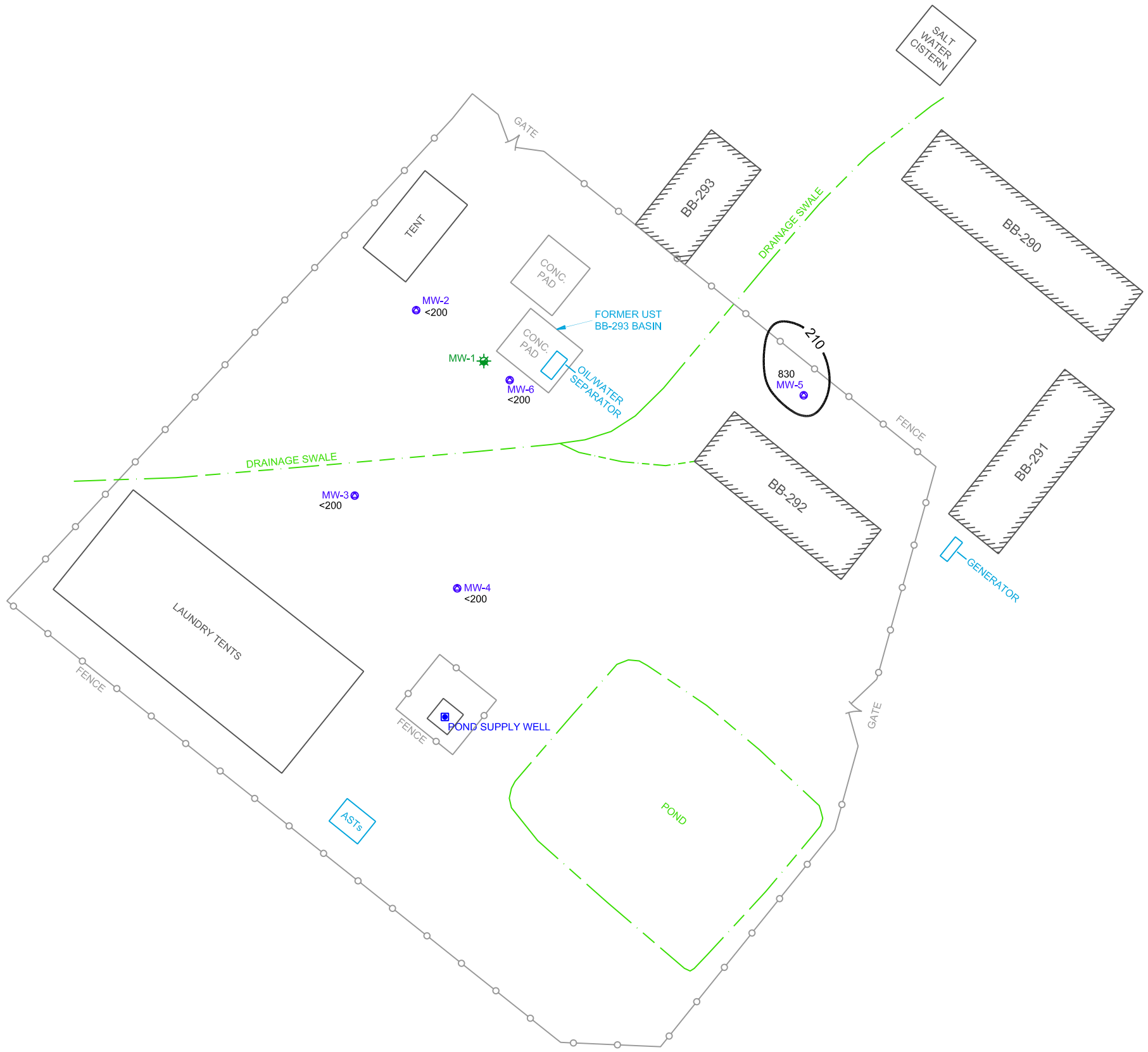
SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-6
DATE	6/21/04
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
C9-C22 AROMATICS CONCENTRATIONS
FOR JUNE 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 1140 SURFICIAL AQUIFER C9-C22 AROMATICS CONCENTRATION
- 210 SURFICIAL AQUIFER C9-C22 AROMATICS ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR C9-C22 AROMATICS IS 210 MICROGRAMS PER LITER)

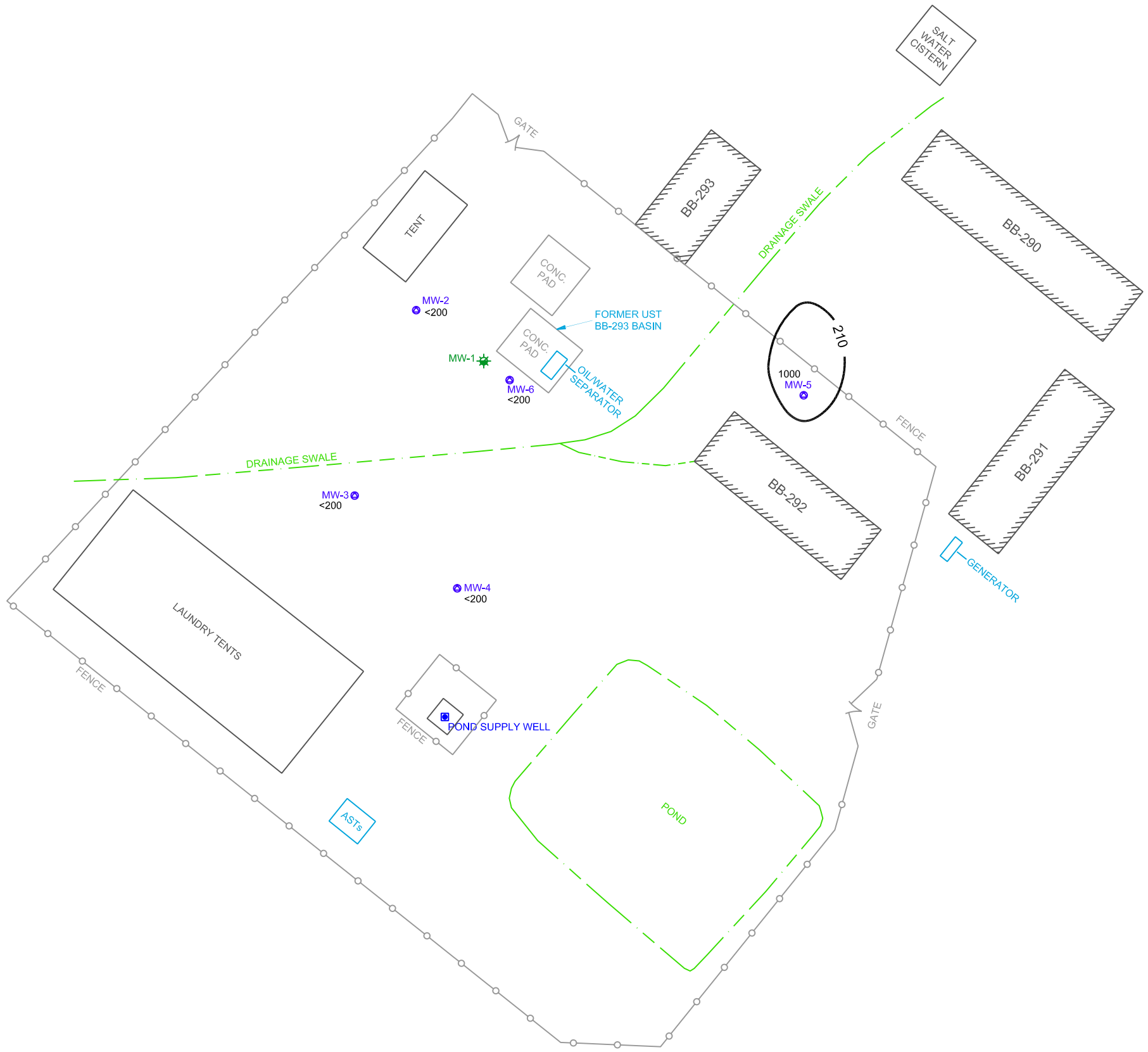
SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-7
DATE	01/11/05
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
C9-C22 AROMATICS CONCENTRATIONS
FOR DECEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



(Base map adapted from Catlin, 1998)

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 1140 SURFICIAL AQUIFER C9-C22 AROMATICS CONCENTRATION
- 210 SURFICIAL AQUIFER C9-C22 AROMATICS ISOCONCENTRATION CONTOUR

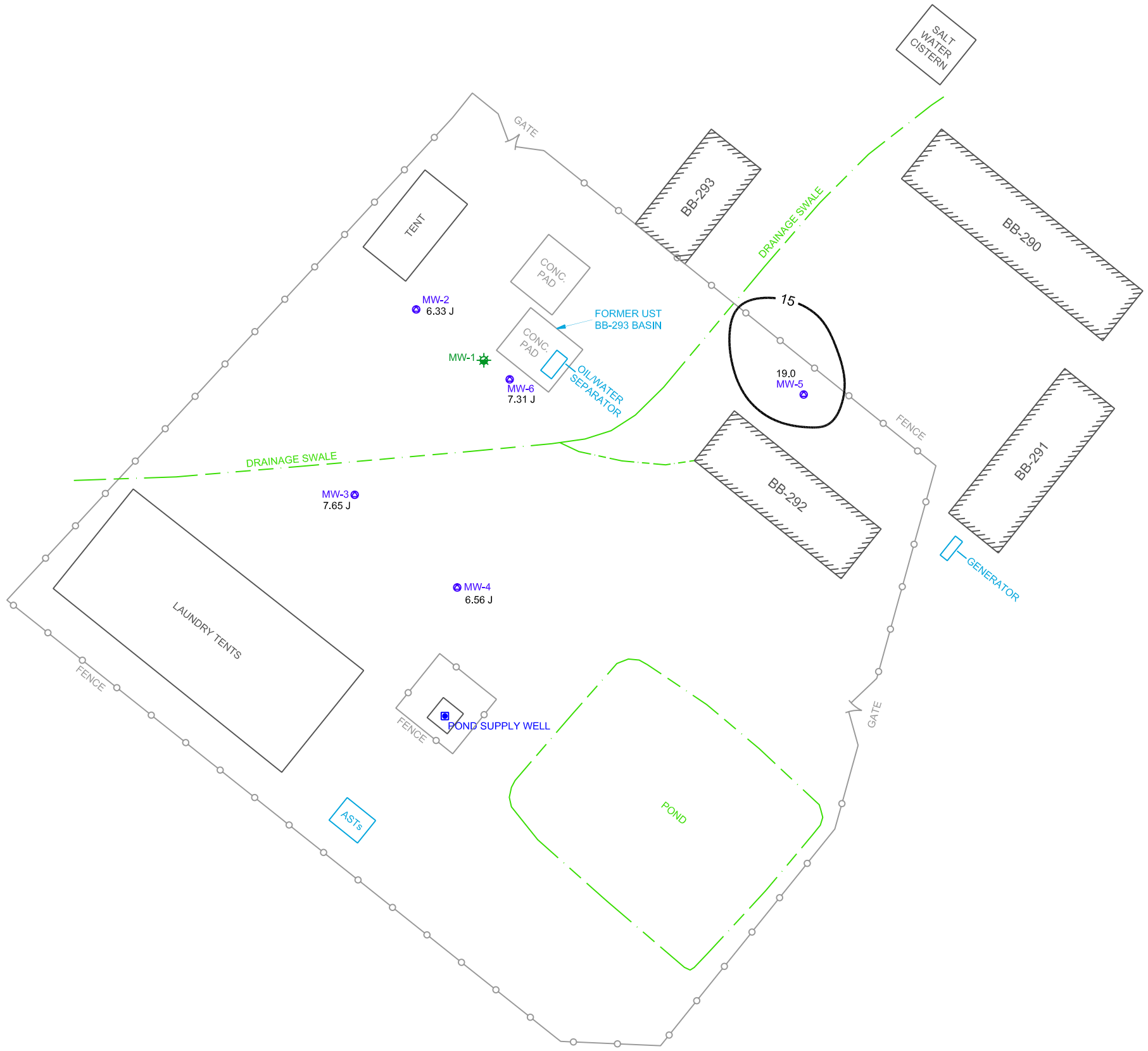
(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR C9-C22 AROMATICS IS 210 MICROGRAMS PER LITER)

SCALE (Feet)
20 0 20 40

Engineering & Environment, Inc.

FIGURE	4-8
DATE	05/10/05
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
C9-C22 AROMATICS CONCENTRATIONS
FOR MARCH 2005
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC



N

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- POND SUPPLY WELL
- 11.2 SURFICIAL AQUIFER LEAD CONCENTRATION
- 15 SURFICIAL AQUIFER LEAD ISOCONCENTRATION CONTOUR

(CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER)
(<# DENOTES NOT DETECTED AT THE INDICATED REPORTING LIMIT)
(<J DENOTES ESTIMATED CONCENTRATION BELOW THE REPORTING LIMIT)
(THE NORTH CAROLINA GROUNDWATER QUALITY STANDARD FOR LEAD IS 15 MICROGRAMS PER LITER)

SCALE (Feet)
20 0 20 40

(Base map adapted from Catlin, 1998)

Engineering & Environment, Inc.

FIGURE	4-9
DATE	01/11/05
REVISION	0
DRAWN BY	WCM
FILE	BB293_MAP

SURFICIAL AQUIFER
LEAD CONCENTRATIONS
FOR DECEMBER 2004
SITE BB-293
ANNUAL MONITORING REPORT
MCB CAMP LEJEUNE, NC

TABLES

Table 3-1
Gauging Data for 7 March 2005
Site BB-293

Well	Top of Casing Elevation (feet msl)	Depth to Water (feet btoc)	Depth to Product (feet btoc)	Groundwater Elevation (feet msl)
MW-1	9.52	5.10	NP	4.42
MW-2	8.87	3.11	NP	5.76
MW-3	9.44	3.75	NP	5.69
MW-4	9.28	3.23	NP	6.05
MW-5	10.69	4.79	NP	5.90
MW-6	9.53	3.63	NP	5.90
Pond Well	No Data	NM	NM	NC

NP - Not Present - no measurable product detected
NM - Not Measured - access port not available
NC - Not Calculated - insufficient data to calculate groundwater elevation
feet msl - feet above mean sea level
feet btoc - feet below top of casing

Table 3-2
Current Monitoring Program Gauging Data Summary
Site BB-293

Well	Top of Casing Elevation (feet msl)	Depth to Water (feet btoc)				Depth to Product (feet btoc)				Groundwater Elevation (feet msl)			
		6/4/04	9/23/04	12/2/04	3/7/05	6/4/04	9/23/04	12/2/04	3/7/05	6/4/04	9/23/04	12/2/04	3/7/05
MW-1	9.52	5.03	4.21	5.18	5.10	NP	NP	NP	NP	4.49	5.31	4.34	4.42
MW-2	8.87	3.06	2.60	3.13	3.11	NP	NP	NP	NP	5.81	6.27	5.74	5.76
MW-3	9.44	3.70	3.80	3.69	3.75	NP	NP	NP	NP	5.74	5.64	5.75	5.69
MW-4	9.28	3.10	2.62	3.02	3.23	NP	NP	NP	NP	6.18	6.66	6.26	6.05
MW-5	10.69	4.69	3.89	4.66	4.79	NP	NP	NP	NP	6.00	6.80	6.03	5.90
MW-6	9.53	3.68	3.10	3.68	3.63	NP	NP	NP	NP	5.85	6.43	5.85	5.90
Pond Well	No Data	NM	NM	NM	NM	NM	NM	NM	NM	NC	NC	NC	NC

NP - Not Present - no measurable product detected
NM - Not Measured - access port not available
NC - Not Calculated - insufficient data to calculate groundwater elevation
feet msl - feet above mean sea level
feet btoc - feet below top of casing

Table 4-1 (Page 1 of 2)

Summary of Groundwater Analytical Results for March 2005

Site BB-293

Sample Location	NCGWQS	GCL	MW-1	MW-2	MW-3	MW-4	DUP [1]	MW-5	MW-6	Pond Well	Trip Blank
Date Sampled			03/08/05	03/07/05	03/08/05	03/08/05	03/08/05	03/07/05	03/08/05	03/08/05	03/08/05
EPA 6210D (ug/L)											
Bromodichloromethane	0.56	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
Bromoform	0.19	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
n-Butylbenzene	70	6900	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
sec-Butylbenzene	70	8500	<0.500	<0.500	<0.500	<0.500	<0.500	4.92	<0.500	<0.500	<0.500
tert-Butylbenzene	70	15,000	<0.500	<0.500	<0.500	<0.500	<0.500	0.880 J	<0.500	<0.500	<0.500
Chloroform	0.19	190	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
Dibromochloromethane	0.41 [2]	410	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
Ethylbenzene	29	29,000	<0.500	<0.500	<0.500	<0.500	<0.500	17.4	<0.500	<0.500	<0.500
Isopropylbenzene	70	25,000	<0.500	<0.500	0.220 J	<0.500	<0.500	6.08	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	<0.500	<0.500	<0.500	0.220 J	0.220 J	5.20	<0.500	<0.500	<0.500
Methylene Chloride	5	5000	<5.00	<5.00	<5.00	<5.00	0.180 J	<20.0	<5.00	0.420 J	0.700 J
Naphthalene	21	15,500	<0.500	<0.500	0.290 J	<0.500	<0.500	107	<0.500	<0.500	<0.500
n-Propyl benzene	70	30,000	<0.500	<0.500	<0.500	<0.500	<0.500	9.60	<0.500	<0.500	<0.500
Toluene	1000	257,500	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	<0.500	<0.500
1,2,4-Trimethylbenzene	350	28,500	<0.500	<0.500	<0.500	<0.500	<0.500	79.3	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	350	25,000	<0.500	<0.500	<0.500	<0.500	<0.500	11.7	<0.500	<0.500	<0.500
m,p-Xylene [3]			<1.0	<1.00	<0.500	<0.500	<0.500	3.60 J	<1.0	<1.00	<1.00
o-Xylene [3]			<0.500	<0.500	<0.500	<0.500	<0.500	15.0	<0.500	<0.500	<0.500
Total Xylenes [3]	530	87,500	--	--	--	--	--	18.6	--	--	--
EPA 625 (ug/L)											
Acenaphthene	80	2120	<10.0	<10.0	<10.0	<10.0	<10.0	2.30 J	<10.0	<10.0	NA
Bls(2-ethylhexyl)phthalate	3	3000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA
Fluorene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	4.10 J	<10.0	<10.0	NA
Naphthalene	21	15,500	<10.0	<10.0	<10.0	<10.0	<10.0	106	<10.0	<10.0	NA
Phenanthrene	210	410	<10.0	<10.0	<10.0	<10.0	<10.0	2.20 J	<10.0	<10.0	NA
TICs (total) [4]			7.9 J	6.8 J	NR	5.81 J	NR	394.2 J [5]	NR	7.85 J	NA
MADEP VPH (ug/L)											
C_5-C_8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	NA
C_9-C_{12} Aliphatics [6]			<100	<100	<100	<100	<100	270	<100	<100	NA
C_9-C_{10} Aromatics [6]			<100	<100	<100	<100	<100	580	<100	<100	NA
MADEP EPH (ug/L)											
C_9-C_{18} Aliphatics [6]			<100	<100	<100	<100	<100	<100	<100	<100	NA
C_{19}-C_{36} Aliphatics	42,000	NE	<100	<100	<100	<100	<100	<100	<100	<100	NA
C_{11}-C_{22} Aromatics [6]			<100	<100	<100	<100	<100	420	<100	<100	NA
MADEP VPH + EPH (ug/L)											
C_9-C_{12} + C_9-C_{18} Aliphatics [6]	4200	NE	--	--	--	--	--	270	--	--	NA
C_9-C_{10} + C_{11}-C_{22} Aromatics [6]	210	NE	--	--	--	--	--	1000	--	--	NA
6010B / 3030C (ug/L)											
Chromium	50	50,000	0.590 JB	0.990 JB	1.61 JB	<10.0	0.400 JB	0.530 JB	0.990 JB	0.330 JB	NA
Lead	15	15,000	<10.0	<10.0	<10.0	1.21 J	<10.0	<10.0	<10.0	1.38 J	NA

(Notes listed on page 2)

Summary of Groundwater Analytical Results for December 2004
Site BB-293

(1) DUP is a duplicate sample collected from well MW-4

(2) Interim Maximum Allowable Concentration

(3) Laboratory quantiation is performed on the m,p-xylene isomers and on the o-xylene isomer; the NCGWQS is based on the sum of the m-, p-, and o-xylene isomers; the sum of the m,p-xylene isomers and the o-xylene isomer is presented as Total Xylenes

(4) TIC: Tentatively Identified Compound; sum of all TICs is presented; any TIC identified as a specific compound is footnoted seperately

(5) One TIC was identified as a specific compound: 1-Methylnaphthalene was reported at an estimated concentration of 78 ug/L (NCGWQS not established, therefore, the NCGWQSs is the reporting limit; GCL not established)

(6) Laboratory quantiation is performed on each of the indicated hydrocarbon fractions; NCGWQSs are based on the sum of the indicated fractions; the sums for the indicated fractions are presented as MADEP VPH + EPH

Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Shaded area in bold italics indicates analyte detection at a concentration above the GCL

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

B: compound detected in the laboratory blank

J: estimated concentration less than the reporting limit

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

NE: Not Established; a GCL has not been established for the analyte

NR: None Reported; no TICs were identified in the sample

NA: Not Analyzed; the sample was not analyzed for the indicated consituent

GCL:Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

Table 4-2 (Page 1 of 2)

Current Monitoring Program Groundwater Analytical Results Summary

Site BB-293

Sample Location	NCGWQS	GCL	MW-1				MW-2					MW-3					MW-4				
Date Sampled			06/04/04	09/23/04	12/02/04	03/08/05	06/04/04	Duplicate	09/23/04	12/02/04	03/07/05	06/04/04	09/23/04	Duplicate	12/02/04	03/08/05	06/04/04	09/23/04	12/03/04	03/08/05	Duplicate
EPA 6210D (ug/L)																					
Bromodichloromethane	0.56	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	6.96	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromoform	0.19	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	2.66	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	70	6900	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	70	8500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.900	<0.500	0.250 J	0.410 J	0.890	<0.500	<0.500
tert-Butylbenzene	70	15,000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.190 J	0.760	<0.500	<0.500
Chloroform	0.19	190	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	4.94	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	0.41 (1)	410	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	7.38	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	29	29,000	<0.500	<0.500	0.670	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	70	25,000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.720	0.220 J	<0.500	0.460 J	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.840	<0.500	0.370 J	0.570	0.880	0.220 J	0.220 J
Methylene Chloride	5	5000	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	0.180 J
Naphthalene	21	15,500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	1.44	0.290 J	0.530	1.30	1.49	<0.500	<0.500
n-Propyl benzene	70	30,000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.480 J	<0.500	<0.500	<0.500
Toluene	1000	257,500	0.260 J	0.940	0.860	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.180 J	0.560	0.480 J	0.620	<0.500	0.190 J	0.380 J	0.700	<0.500	<0.500
1,2,4-Trimethylbenzene	350	28,500	<0.500	<0.500	0.760	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	350	25,000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Total Xylenes (2)	530	87,500	<1.50	0.730	1.83	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	0.950 J	<1.50	<1.50	<1.50	0.970 J	<1.50	<1.50
EPA 625 (ug/L)																					
Acenaphthene	80	2120	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bls(2-ethylhexyl)phthalate	3	3000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1.90 J	<10.0	<10.0	<10.0	<10.0
Fluorene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenanthrene	210	410	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total) (3)			NR	NR	NR	7.9 J	NR	NR	NR	NR	6.8 J	NR	NR	4.2 J	NR	NR	NR	4.36 J	15.2 J	5.81 J	NR
MADEP VPH / EPH (ug/L)																					
C_5-C_8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C_{19}-C_{36} Aliphatics	42,000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C_9-C_{12} + C_9-C_{18} Aliphatics (4)	4200	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
C_9-C_{10} + C_{11}-C_{22} Aromatics (4)	210	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
6010B / 3030C (ug/L)																					
Chromium	50	50,000	<10.0	1.98 JB	<10.0	0.590 JB	<10.0	<10.0	2.56 JB	0.340 J	0.990 JB	<10.0	<10.0 B	<10.0 B	<10.0	1.61 JB	<10.0	<10.0 B	<10.0	<10.0	0.400 JB
Lead	15	15,000	<10.0	15.4 B	8.58 J	<10.0	<10.0	<10.0	9.06 JB	6.33 J	<10.0	<10.0	11.6 B	12.5 B	7.65 J	<10.0	<10.0	11.0 B	6.56 J	1.21 J	<10.0

(1) Interim Maximum Allowable Concentration

(2) Laboratory quantiation is performed on the m,p-xylene isomers and on the o-xylene isomer; the NCGWQS is based on the sum of the m-, p-, and o-xylene isomers; the sum of the m,p-xylene isomers and the o-xylene isomer is presented as Total Xylenes

(3) TIC: Tentatively Identified Compound; sum of all TICs is presented; any TIC identified as a specific compound is footnoted seperately

(4) Laboratory quantiation is performed on each of the indicated hydrocarbon fractions; NCGWQSs are based on the sum of the indicated fractions

GCL:Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; therefore, the NCGWQS for the constituent is the reporting limit

NE: Not Established; a GCL has not been established for the analyte

Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Shaded area in bold italics indicates analyte detection at a concentration above the GCL

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

B: compound detected in the laboratory blank

J: estimated concentration less than the reporting limit

NR: None Reported; no TICs were identified in the sample

Table 4-2 (Page 2 of 2)

Current Monitoring Program Groundwater Analytical Results Summary

Site BB-293

Sample Location	NCGWQS	GCL	MW-5				MW-6					Pond Well			
Date Sampled			06/04/04	09/23/04	12/03/04	03/07/05	06/04/04	09/23/04	12/02/04	Duplicate	03/08/05	06/08/04	09/23/04	12/03/04	03/08/05
EPA 6210D (ug/L)															
Bromodichloromethane	0.56	NE	<0.500	<1.00	<4.00	<2.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromoform	0.19	NE	<0.500	<1.00	<4.00	<2.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	70	6900	3.56	<1.00	<4.00	<2.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	70	8500	2.20	1.42	10.1	4.92	<0.500	<0.500	1.01	1.01	<0.500	<0.500	<0.500	<0.500	<0.500
tert-Butylbenzene	70	15,000	0.440 J	<1.00	6.40	0.880 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroform	0.19	190	<0.500	<1.00	<4.00	<2.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	0.41 (1)	410	<0.500	<1.00	<4.00	<2.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	29	29,000	11.1	4.96	19.5	17.4	0.510	<0.500	1.25	1.30	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	70	25,000	3.33	1.68	10.1	6.08	0.300 J	<0.500	1.09	1.09	<0.500	<0.500	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	2.45	1.44	10.4	5.20	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene Chloride	5	5000	<5.00	<10.0	<40.0	<20.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	0.420 J
Naphthalene	21	15,500	180	59.1	149	107	0.680	<0.500	1.46	1.47	<0.500	<0.500	<0.500	<0.500	<0.500
n-Propyl benzene	70	30,000	4.87	2.56	13.3	9.60	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Toluene	1000	257,500	<0.500	0.500 J	4.00	<2.00	<0.500	0.370 J	0.680	0.620	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trimethylbenzene	350	28,500	38.2	13.6	52.7	79.3	0.520	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	350	25,000	7.27	4.82	19.2	11.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Total Xylenes (2)	530	87,500	8.1	2.86	23.28	18.6	<1.50	<1.50	1.60	1.58	<1.50	<1.50	<1.50	<1.50	<1.50
EPA 625 (ug/L)															
Acenaphthene	80	2120	1.70 J	<10.0	1.40 J	2.30 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bis(2-ethylhexyl)phthalate	3	3000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Fluorene	280	950	3.60 J	<10.0	3.10 J	4.10 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	130	33.8	155	106	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenanthrene	210	410	2.30 J	<10.0	2.60 J	2.20 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total) (3)			375 J (5)	101.7 J (6)	381.7 J (7)	394.2 J (8)	NR	348.39 J	15.6 J	7.96 J	NR	22 J	NR	NR	7.85 J
MADEP VPH / EPH (ug/L)															
C_5-C_8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C_{19}-C_{36} Aliphatics	42,000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C_9-C_{12} + C_9-C_{18} Aliphatics (4)	4200	NE	1250	200	390	270	<200	<200	<200	<200	<200	<200	<200	<200	<200
C_9-C_{10} + C_{11}-C_{22} Aromatics (4)	210	NE	820	200	830	1000	<200	<200	<200	<200	<200	<200	<200	<200	<200
6010B / 3030C (ug/L)															
Chromium	50	50,000	39.4	<10.0 B	<10.0	0.530 JB	<10.0	<10.0 B	<10.0	<10.0	0.990 JB	<10.0	<10.0 B	<10.0	0.330 JB
Lead	15	15,000	<10.0	26.9 B	19.0	<10.0	<10.0	9.65 JB	6.63 J	7.31 J	<10.0	<10.0	12.8 B	7.91 J	1.38 J

(1) Interim Maximum Allowable Concentration

(2) Laboratory quantiation is performed on the m,p-xylene isomers and on the o-xylene isomer; the NCGWQS is based on the sum of the m-, p-, and o-xylene isomers; the sum of the m,p-xylene isomers and the o-xylene isomer is presented as Total Xylenes

(3) TIC: Tentatively Identified Compound; sum of all TICs is presented; any TIC identified as a specific compound is footnoted seperately

(4) Laboratory quantiation is performed on each of the indicated hydrocarbon fractions; NCGWQSs are based on the sum of the indicated fractions

(5) Two TICs were identified as specific compounds: 1-Methylnaphthalene was reported at 65 J ug/L (NCGWQS not established, therefore NCGWQS is the reporting limit; GCL not established); Camphor was reported at 58 ug/L J (NCGWQS not established, therefore NCGWQS is the reporting limit; GCL not established)

(6) One TIC was identified as a specific compound: Molecular sulfur was was reported at 24.7 J ug/L (NCGWQS not established; therefore NCGWQS is the reporting limit; GCL not established)

(7) Two TICs were identified as specific compounds: 1-Methylnaphthalene was reported at 66.4 J ug/L (NCGWQS not established, therefore NCGWQS is the reporting limit; GCL not established); 2-Methylnaphthalene was reported at 29.1 J ug/L (NCGWQS of 14 ug/L; GCL of 12,500 ug/L)

(8) One TIC was identified as a specific compound: 1-Methylnaphthalene was reported at an estimated concentration of 78 ug/L (NCGWQS not established, therefore, the NCGWQSs is the reporting limit; GCL not established)

GCL:Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; therefore, the NCGWQS for the constituent is the reporting limit

NE: Not Established; a GCL has not been established for the analyte

Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Shaded area in bold italics indicates analyte detection at a concentration above the GCL

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

B: compound detected in the laboratory blank

J: estimated concentration less than the reporting limit

NR: None Reported; no TICs were identified in the sample

APPENDIX A

FIELD DATA RECORDING SHEETS

June 2004

ENGINEERING AND ENVIRONMENT, INC.

BB293 Water Levels **Date: 6/4/2004**

Well ID	MW01	Depth to Bottom	49	Depth to Product		Depth to Water	5.93
Well ID	MW02	Depth to Bottom	12	Depth to Product		Depth to Water	3.06
Well ID	MW03	Depth to Bottom	12	Depth to Product		Depth to Water	3.70
Well ID	MW04	Depth to Bottom	12	Depth to Product		Depth to Water	3.10
Well ID	MW05	Depth to Bottom	12	Depth to Product		Depth to Water	4.69
Well ID	MW06	Depth to Bottom	12	Depth to Product		Depth to Water	3.68

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	6/4/2004	**Time**	8:45	**Weather**	cloudy
Sampler	BS			**Well/Sample #**	**USTBB293-MW1**
Depth To Bottom (ft)	47.46	**Depth To Water (ft)**	5.03	**Water Depth (ft)**	42.43
Well Vol.	6.9	**Purge Vol.**	20.7	**Vol. Purged**	10
Sampling Device (pump/Bailer)					

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	8:22	8:37					N/A
Temperature	20.26	Dry					©
Spec. Conductivity	0.988						**(m s/m)**
Dissolved Oxygen	3.41						**ms/L**
PH	10.64						**STD**
ORP	-39.8						**(G/L)**
Turbitidy	2.53						(NTU)

Analyte	Size	Preserv.
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:

well went dry at 8:37,waited ten minutes and took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	8:02	8:17	8:25				
SWL	5.03	15.8	27.68				
Pump Depth	40.46	45.46	46.46				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	6/4/2004	**Time**	7:45	**Weather**	cloudy		
Sampler	BS			**Well/Sample #**	**USTBB293-MW2**		
Depth To Bottom (ft)	11.81	**Depth To Water (ft)**	3.06	**Water Depth (ft)**	8.75		
Well Vol.	1.4	**Purge Vol.**	4.2	**Vol. Purged**	10		
Sampling Device (pump/Bailer)							

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	7:20	7:24	7:28	7:33	7:39		N/A
Temperature	20.35	20.64	20.72	20.78	20.77		©
Spec. Conductivity	0.373	0.372	0.375	0.377	0.375		**(m s/m)**
Dissolved Oxygen	1.15	1.07	0.86	0.70	0.62		**ms/L**
PH	4.23	4.55	5.35	6.03	6.17		**STD**
ORP	196.4	184.7	142.9	107.1	99.9		**(G/L)**
Turbitidy	91.3	72.7	36.8	12.9	8.2		(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:	DUP.

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	7:22	7:27	7:34				
SWL	3.58	3.58	3.58				
Pump Depth							

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 6/4/2004 **Time** 11:00 **Weather** cloudy w/rain

Sampler BS **Well/Sample #** USTBB293-MW3

Depth To Bottom (ft) 11.60 **Depth To Water (ft)** 3.70 **Water Depth (ft)** 7.90

Well Vol. 1.26 **Purge Vol.** 3.78 **Vol. Purged** 6.5

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	10:40	10:45	10:50	10:55	10:59		N/A
Temperature	21.18	21.31	21.50	21.52	21.54		©
Spec. Conductivity	0.420	0.437	0.451	0.459	0.469		**(m s/m)**
Dissolved Oxygen	4.88	3.51	3.00	3.13	3.04		**ms/L**
PH	6.80	6.79	6.71	6.68	6.68		**STD**
ORP	12.3	20.2	30.4	34.8	37.7		**(G/L)**
Turbitidy	123	80.5	17.3	12.3	8.04		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	10:41	10:46	10:52				
SWL	4.25	4.25	4.25				
Pump Depth	8.1	8.1	8.1				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 6/4/2004 **Time** 10:25 **Weather** cloudy

Sampler BS **Well/Sample #** USTBB293-MW4

Depth To Bottom (ft) 11.50 **Depth To Water (ft)** 3.10 **Water Depth (ft)** 11.40

Well Vol. 1.9 **Purge Vol.** 5.7 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	9:42	9:52	10:02	10:13	10:24		N/A
Temperature	21.46	21.67	21.60	21.51	21.63		©
Spec. Conductivity	0.457	0.452	0.450	0.448	0.447		**(m s/m)**
Dissolved Oxygen	0.64	0.35	0.39	0.40	0.35		**ms/L**
PH	6.74	6.78	6.81	6.84	6.85		**STD**
ORP	-62.1	-76.9	-86.9	-95.2	-92.7		**(G/L)**
Turbitidy	47.7	48.0	15.0	9.77			(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	9:42	9:51	10:01	10:12	10:23		
SWL	3.91	4.13	4.05	4.00	3.95		
Pump Depth	6.5	7	7	7	7		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	6/4/2004	**Time**	11:45	**Weather**	cloudy
Sampler	BS			**Well/Sample #**	**USTBB293-MW5**
Depth To Bottom (ft)	12.68	**Depth To Water (ft)**	4.69	**Water Depth (ft)**	7.99
Well Vol.	1.3	**Purge Vol.**	3.9	**Vol. Purged**	6.5
Sampling Device (pump/Bailer)					

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	11.21	11:37	Dry				N/A
Temperature	21.29	22.10					©
Spec. Conductivity	5.584	6.585					**(m s/m)**
Dissolved Oxygen	1.02	0.58					**ms/L**
PH	6.73	6.69					**STD**
ORP	-190.9	-216.9					**(G/L)**
Turbitidy	39.2	32.5					(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:	Water is coal black,looking at it in the bucket
	well went dry at second vol.wait ten minutes and took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	11:17	11:19	11:23				
SWL	4.69	7.56	7.15				
Pump Depth	9.18	11.68	11.68				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 6/4/2004 **Time** 9:20 **Weather** cloudy

Sampler BS **Well/Sample #** USTBB293-MW6

Depth To Bottom (ft) 11.01 **Depth To Water (ft)** 3.68 **Water Depth (ft)** 7.33

Well Vol. 1.2 **Purge Vol.** 3.6 **Vol. Purged** 6

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	8:59	9:04	9:08	9:13	9:18		N/A
Temperature	20.7	21.17	21.44	21.58	21.63		©
Spec. Conductivity	0.451	0.462	0.466	0.467	0.469		**(m s/m)**
Dissolved Oxygen	0.98	1.01	0.84	0.81	0.81		**ms/L**
PH	7.81	7.21	6.87	6.67	6.62		**STD**
ORP	-7.8	-66.4	-57.5	-54.1	-52.1		**(G/L)**
Turbitidy	94.1	35.5	30.2	14.7	8.15		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	8:58	9:03	9:07				
SWL	4.13	4.13	4.13				
Pump Depth	8.01	8.01	8.01				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 6/8/2004 **Time** 13:00 **Weather**

Sampler BS **Well/Sample #** USTBB293-PW

Depth To Bottom (ft) N/A **Depth To Water (ft)** N/A **Water Depth (ft)**

Well Vol. **Purge Vol.** **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	12:58						N/A
Temperature	21.17						©
Spec. Conductivity	1.287						**(m s/m)**
Dissolved Oxygen	3.11						**ms/L**
PH	6.77						**STD**
ORP	-106.9						**(G/L)**
Turbitidy	3.96						(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments: Pond well,Let run ten minutes and took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time							
SWL							
Punp Depth							

September 2004

ENGINEERING AND ENVIRONMENT, INC.

BB293 Water Levels **Date: 9/23/2004**

Well ID	MW01	Depth to Bottom	49	Depth to Product		Depth to Water	4.21
Well ID	MW02	Depth to Bottom	12	Depth to Product		Depth to Water	2.60
Well ID	MW03	Depth to Bottom	12	Depth to Product		Depth to Water	3.80
Well ID	MW04	Depth to Bottom	12	Depth to Product		Depth to Water	2.62
Well ID	MW05	Depth to Bottom	12	Depth to Product		Depth to Water	3.89
Well ID	MW06	Depth to Bottom	12	Depth to Product		Depth to Water	3.10

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 11:05 **Weather** Sunny, 75 degrees

Sampler BS **Well/Sample #** **USTBB293-MW1**

Depth To Bottom (ft) 49 **Depth To Water (ft)** 4.21 **Water Depth (ft)** 44.79

Well Vol. 7.31 **Purge Vol.** 21.93 **Vol. Purged** 11

Sampling Device (pump/Bailer)

	ONE	1.15	THREE	FOUR	FIVE	SIX	UNIT
Time	10:45	11:09					N/A
Temperature	20.87	19.89					©
Spec. Conductivity	1.235	1.422					**(m s/m)**
Dissolved Oxygen	0.21	0.87					**ms/L**
PH	9.16	7.71					**STD**
ORP	-175.7	-213.9					**(G/L)**
Turbitidy	182						(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:	Well does not recover, goes dry; I keep increasing pump to maintain flow						
	Stopped pump at 10:55 to recharge and take sample; waited 10 min.; took sample						

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	10:21	10:25	10:27	10:31	10:42	10:48	10:52
SWL	4.21	8.83	13.01	16.90	18.85	24.20	31.70
Pump Depth	47	47	47	47	47	47	47

Time	10:55	11:10
SWL	31.70	36.70
Pump Depth	47	47

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 10:00 **Weather** Sunny, 72 degrees

Sampler BS **Well/Sample #** **USTBB293-MW2**

Depth To Bottom (ft) 12 **Depth To Water (ft)** 2.60 **Water Depth (ft)** 9.4

Well Vol. 1.53 **Purge Vol.** 4.59 **Vol. Purged** 8

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	9:36	9:40	9:45	9:50	9:55		N/A
Temperature	23.79	24.18	24.41	24.47	24.48		©
Spec. Conductivity	0.324	0.376	0.395	0.406	0.410		**(m s/m)**
Dissolved Oxygen	3.89	2.89	2.68	1.78	1.26		**ms/L**
PH	6.71	6.54	6.51	6.50	6.49		**STD**
ORP	-4.2	36.9	40.5	40.9	39.8		**(G/L)**
Turbitidy	135	122	108	99.8	15.9		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	9:30	9:35	9:39	9:44	9:48	9:54	
SWL	2.60	2.98	3.03	3.06	3.09	3.11	
Pump Depth	7	7	7	7	7	7	

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 12:30 **Weather** Sunny, 78 degrees

Sampler BS **Well/Sample #** **USTBB293-MW3**

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.18 **Water Depth (ft)** 8.82

Well Vol. 1.44 **Purge Vol.** 4.32 **Vol. Purged** 6

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	12:07	12:12	12.19	12:26			N/A
Temperature	23.53	23.63	23.62	23.81			©
Spec. Conductivity	0.719	0.717	0.712	0.714			**(m s/m)**
Dissolved Oxygen	1.51	0.68	0.45	0.38			**ms/L**
PH	6.37	6.35	6.36	6.37			**STD**
ORP	65.7	75.7	80.7	80.0			**(G/L)**
Turbitidy	201	23.2	158	4.96			(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:	**DUP**						

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	12:01	12:06	12:11	12:18	12:24		
SWL	3.18	3.48	3.52	3.54	3.55		
Pump Depth	7	7	7	7	7		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 13:35 **Weather** Sunny, 80 degrees

Sampler BS **Well/Sample #** **USTBB293-MW4**

Depth To Bottom (ft) 12 **Depth To Water (ft)** 2.62 **Water Depth (ft)** 9.38

Well Vol. 1.53 **Purge Vol.** 4.59 **Vol. Purged** 8

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	13:05	13:10	13:17	13:24	13:31		N/A
Temperature	23.81	23.81	23.82	23.95	23.9		©
Spec. Conductivity	0.761	0.789	0.788	0.797	0.794		**(m s/m)**
Dissolved Oxygen	1.11	0.83	0.73	0.60	0.40		**ms/L**
PH	6.68	6.69	6.75	6.77	6.77		**STD**
ORP	-81.6	-87.9	-98.5	-103.8	-105.7		**(G/L)**
Turbitidy	133	88.4	23.3	8.94	6.28		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	12:57	13:04	13:09	13:15	13:20		
SWL	2.62	3.32	3.45	3.52	3.51		
Pump Depth	7	7	7	7	7		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	9/23/2004	**Time**	14:25	**Weather**	Sunny, 80 degrees
Sampler	BS			**Well/Sample #**	**USTBB293-MW5**
Depth To Bottom (ft)	12	**Depth To Water (ft)**	3.89	**Water Depth (ft)**	8.11
Well Vol.	1.32	**Purge Vol.**	3.96	**Vol. Purged**	3.5
Sampling Device (pump/Bailer)					

	ONE	TWO	2.5	THREE	FIVE	SIX	UNIT
Time	13:56	14:07	14:12	14:30			N/A
Temperature	24.72	24.35	24.66	24.49			©
Spec. Conductivity	5.310	5.481	6.066	6.892			**(m s/m)**
Dissolved Oxygen	1.59	0.70	1.04	0.35			**ms/L**
PH	6.51	6.55	6.57	6.54			**STD**
ORP	-79.1	-116.8	-116.1	112.4			**(G/L)**
Turbitidy	43.8	56.3		15.1			(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:	Recharging slowly. Dry at 2.5 Vol. stopped pump; waited 10 min.; took						
	sample						
	Split Sample						

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	13:47	13:55	14:00	14:04	14:08		
SWL	3.89	4.84	6.10	7.91	9.20		
Pump Depth	7	7	8.5	10	11.6		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 11:45 **Weather** Sunny, 76 degrees

Sampler BS **Well/Sample #** **USTBB293-MW6**

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.10 **Water Depth (ft)** 8.9

Well Vol. 1.45 **Purge Vol.** 4.35 **Vol. Purged** 8

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	11:22	11:27	11:32	11:37	11:42		N/A
Temperature	24.7	24.84	24.88	24.93	24.94		©
Spec. Conductivity	0.532	0.524	0.522	0.523	0.524		**(m s/m)**
Dissolved Oxygen	0.90	0.69	0.64	0.58	0.54		**ms/L**
PH	6.70	6.67	6.66	6.64	6.64		**STD**
ORP	-20.2	-26.9	-33	-34.9	-37.9		**(G/L)**
Turbitidy	91.6	34.6	85.2	30.5	5.54		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time	11:17	11:20	11:25	11:30	11:35	11:40	
SWL	3.10	3.42	3.62	3.65	3.66	3.67	
Pump Depth	7	7	7	7	7	7	

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 9/23/2004 **Time** 13:10 **Weather** Sunny, 80 degrees

Sampler BS **Well/Sample #** **USTBB293-PW**

Depth To Bottom (ft) N/A **Depth To Water (ft)** N/A **Water Depth (ft)**

Well Vol. 6.9 **Purge Vol.** 20.7 **Vol. Purged** 10

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time							N/A
Temperature							©
Spec. Conductivity							**(m s/m)**
Dissolved Oxygen							**ms/L**
PH							**STD**
ORP							**(G/L)**
Turbitidy							(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:	Ground water well, ran 15 min. took sample						

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time							
SWL							
Pump Depth							

December 2004

ENGINEERING AND ENVIRONMENT, INC.

BB293 Water Levels **Date: 12/2/2004**

Well ID	MW01	Depth to Bottom	49	Depth to Product		Depth to Water	5.18
Well ID	MW02	Depth to Bottom	12	Depth to Product		Depth to Water	3.13
Well ID	MW03	Depth to Bottom	12	Depth to Product		Depth to Water	3.69
Well ID	MW04	Depth to Bottom	12	Depth to Product		Depth to Water	3.02
Well ID	MW05	Depth to Bottom	12	Depth to Product		Depth to Water	4.66
Well ID	MW06	Depth to Bottom	12	Depth to Product		Depth to Water	3.68

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 12/2/2004 **Time** 14:15 **Weather** sunny, 60 degrees

Sampler BS **Well/Sample #** USTBB293-MW1

Depth To Bottom (ft) 49 **Depth To Water (ft)** 5.18 **Water Depth (ft)** 43.82

Well Vol. 7.15 **Purge Vol.** 21.45 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	2.5	THREE	3.5		UNIT
Time	13:20	13:47	13:55	14:05	14:12		N/A
Temperature	20.36	20.18	20.18	20.12	20.15		©
Spec. Conductivity	1.014	1.045	1.049	1.055	1.057		**(m s/m)**
Dissolved Oxygen	0.19	0.26	0.17	0.12	0.15		**ms/L**
PH	8.63	7.56	7.47	7.42	7.40		**STD**
ORP	-314.5	-214.5	-206.5	-200.8	200.4		**(G/L)**
Turbitidy	10.2	45.2	14.9	11.6	8.66		(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.3						
Time	13:00	13:06	13:19	13:35	13:48	13:58	14:07
SWL	5.18	8.95	18.45	19.72	23.46	23.43	23.43
Pump Depth	46.5	46.5	46.5	46.5	46.5	46.5	46.5

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 12/2/2004 **Time** 12:35 **Weather** sunny, 60 degrees

Sampler BS **Well/Sample #** USTBB293-MW2

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.13 **Water Depth (ft)** 8.87

Well Vol. 1.48 **Purge Vol.** 4.44 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	12:18	12:21	12:24	12:27	12:31		N/A
Temperature	19.64	19.76	19.84	19.85	20.12		©
Spec. Conductivity	0.321	0.312	0.306	0.303	0.297		**(m s/m)**
Dissolved Oxygen	0.95	0.89	0.69	0.63			**ms/L**
PH	6.57	6.52	6.5	6.49	6.64		**STD**
ORP	14.5	4.5	0.2	-1.4	4.3		**(G/L)**
Turbitidy	347	230	104	37	60		(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	12:13	12:17	12:20	12:23			
SWL	3.13	3.83	3.87	3.87			
Pump Depth	7	7	7	7			

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	12/2/2004	**Time**	15:45	**Weather**	partly cloudy, 58 degrees		
Sampler	BS			**Well/Sample #**	**USTBB293-MW3**		
Depth To Bottom (ft)	12	**Depth To Water (ft)**	3.69	**Water Depth (ft)**	8.31		
Well Vol.	1.36	**Purge Vol.**	4.08	**Vol. Purged**			
Sampling Device (pump/Bailer)							

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	15:24	15:28	15:32	15:37	15:42		N/A
Temperature	18.54	18.79	18.88	18.93	18.91		©
Spec. Conductivity	0.488	0.490	0.493	0.490	0.490		**(m s/m)**
Dissolved Oxygen	1.4	0.60	0.70	0.41	0.30		**ms/L**
PH	6.39	6.39	6.40	6.39	6.39		**STD**
ORP	36	44	47.7	48.5	46.4		**(G/L)**
Turbitidy	12.4	52.9	30.7	19.8	9.95		(NTU)

Analyte	Size	Preserv.
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.1						
Time	15:18	15:26	15:35				
SWL	3.69	4.15	4.18				
Pump Depth	7	7	7				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 12/3/2004 **Time** 8:45 **Weather** sunny, 40 degrees

Sampler BS **Well/Sample #** USTBB293-MW4

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.02 **Water Depth (ft)** 8.98

Well Vol. 1.46 **Purge Vol.** 4.38 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	8:16	8:23	8:28	8:33	8:40		N/A
Temperature	17.48	18.24	18.28	18.48	18.47		©
Spec. Conductivity	0.593	0.545	0.524	0.524	0.515		**(m s/m)**
Dissolved Oxygen	0.95	0.40	0.44	0.49	0.28		**ms/L**
PH	6.91	6.92	6.96	6.97	7.01		**STD**
ORP	-71.3	-92.6	-107.3	-115.9	-125.1		**(G/L)**
Turbitidy	174	24.8	12.2	6.52	2.65		(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	8:10	8:12	8:19	8:25	8:34		
SWL	3.02	3.57	3.89	4.09	4.31		
Pump Depth	7	7	7	7	7		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	12/3/2004	**Time**	9:40	**Weather**	sunny, 40 degrees
Sampler	BS			**Well/Sample #**	**USTBB293-MW5**
Depth To Bottom (ft)	12	**Depth To Water (ft)**	4.66	**Water Depth (ft)**	7.34
Well Vol.	1.2	**Purge Vol.**	3.6	**Vol. Purged**	
Sampling Device (pump/Bailer)					

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	9:21						N/A
Temperature	19.22						©
Spec. Conductivity	3.91						**(m s/m)**
Dissolved Oxygen	1.23						**ms/L**
PH	6.69						**STD**
ORP	-246.2						**(G/L)**
Turbitidy	86.2						(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:	Dry at 1st vol.; waited ten minutes, took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.1						
Time	9:12	9:14	9:19	9:20			
SWL	4.66	5.29	6.88	9.02			
Pump Depth	7	7	8	11			

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 12/2/2004 **Time** 14:50 **Weather** partly sunny

Sampler BS **Well/Sample #** USTBB293-MW6

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.68 **Water Depth (ft)** 8.32

Well Vol. 1.36 **Purge Vol.** 4.08 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	14:34	14:39	14.46				N/A
Temperature	19.64	19.73	19.80				©
Spec. Conductivity	0.445	0.439	0.436				**(m s/m)**
Dissolved Oxygen	0.55	0.43	0.39				**ms/L**
PH	6.65	6.60	6.60				**STD**
ORP	-52.2	-52.1	-53.1				**(G/L)**
Turbitidy	40.9	22.6	8.85				(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments: DUP

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0						
Time	14:27	14:32	14:37				
SWL	3.68	4.07	4.21				
Pump Depth	7	7	7				

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 12/3/2004 **Time** 8:50 **Weather** sunny, 40 degrees

Sampler BS **Well/Sample #** USTBB293-PW

Depth To Bottom (ft) N/A **Depth To Water (ft)** N/A **Water Depth (ft)**

Well Vol. **Purge Vol.** **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time							N/A
Temperature							©
Spec. Conductivity							**(m s/m)**
Dissolved Oxygen							**ms/L**
PH							**STD**
ORP							**(G/L)**
Turbitidy	4.31						(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments: Ran pump 15 minutes

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time							
SWL							
Pump Depth							

March 2005

ENGINEERING AND ENVIRONMENT, INC.

BB293 Water Levels **Date: 3/7/2005**

Well ID	MW01	Depth to Bottom	49	Depth to Product		Depth to Water	5.10
Well ID	MW02	Depth to Bottom	12	Depth to Product		Depth to Water	3.11
Well ID	MW03	Depth to Bottom	12	Depth to Product		Depth to Water	3.75
Well ID	MW04	Depth to Bottom	12	Depth to Product		Depth to Water	3.22
Well ID	MW05	Depth to Bottom	12	Depth to Product		Depth to Water	4.79
Well ID	MW06	Depth to Bottom	12	Depth to Product		Depth to Water	3.63

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/8/2005 **Time** 10:05 **Weather** partly cloudy, 50 degrees

Sampler BS **Well/Sample #** USTBB293-MW01

Depth To Bottom (ft) 49 **Depth To Water (ft)** 5.10 **Water Depth (ft)** 43.9

Well Vol. 7.16 **Purge Vol.** 21.48 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	1.5	TWO	2.5	THREE	3.5	UNIT
Time	9:31	9:37	9:47	9:54	10:04		N/A
Temperature	19.56	19.64	19.75	19.79	19.76		©
Spec. Conductivity	1.329	1.370	1.484	1.512	1.527		**(m s/m)**
Dissolved Oxygen	0.81	0.79	0.53	0.57	0.59		**ms/L**
PH	7.65	7.45	7.33	7.30	7.29		**STD**
ORP	-134.9	-155.7	-159.8	-163.1	-166.6		**(G/L)**
Turbitidy	219	116	29.3	11.8	8.57		(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.0						
Time	9:17	9:20	9:22	9:34	9:41	9:49	10:01
SWL	5.10	12.01	14.52	22.01	26.92	27.00	27.08
Pump Depth	2.5	2.5	2.5	2.5	2.5	2.5	2.5

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/7/2005 **Time** 13:50 **Weather** sunny, 55 degrees

Sampler BS **Well/Sample #** USTBB293-MW02

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.11 **Water Depth (ft)** 8.89

Well Vol. 1.45 **Purge Vol.** **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	13:22	13:28	13:34	13:40	13:46		N/A
Temperature	13.96	14.05	14.03	14.03	14.02		©
Spec. Conductivity	0.324	0.323	0.324	0.325	0.325		**(m s/m)**
Dissolved Oxygen	1.97	1.44	1.09	1.01	0.97		**ms/L**
PH	7.05	7.00	6.99	7.00	7.01		**STD**
ORP	-128.7	-121.5	-117.5	-115.6	-112.9		**(G/L)**
Turbitidy	498	313	85.6	59.4	36.0		(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.0						
Time	13:15	13:18	13:19	13:30	13:37		
SWL	3.11	3.41	3.63	3.66	3.67		
Pump Depth	2.5	2.5	2.5	2.5	2.5		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/8/2005 **Time** 11:30 **Weather** partly cloudy, 55 degrees

Sampler BS **Well/Sample #** USTBB293-MW03

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.71 **Water Depth (ft)**

Well Vol. 1.35 **Purge Vol.** 4.05 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	11:07	11:13	11:18	11:23	11:28		N/A
Temperature	12.94	13.02	13.28	13.27	13.27		©
Spec. Conductivity	0.504	0.509	0.512	0.515	0.517		**(m s/m)**
Dissolved Oxygen	2.3	1.88	1.76	1.63	1.60		**ms/L**
PH	7.17	7.14	7.15	7.15	7.15		**STD**
ORP	43.8	16.4	23.9	24.5	25.2		**(G/L)**
Turbitidy	151	98.6	37.0	17.2	9.90		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528							
Pid	0.0						
Time	11:03	11:05	11:09	11:14	11:19	11:24	
SWL	3.71	4.10	4.37	4.41	4.43	4.43	
Pump Depth	2.5	2.5	2.5	2.5	2.5	2.5	

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/8/2005 **Time** 12:20 **Weather** cloudy, rain, 50 degrees

Sampler BS **Well/Sample #** USTBB293-MW04

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.27 **Water Depth (ft)** 8.73

Well Vol. 1.42 **Purge Vol.** 4.26 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	11:55	11:59	12:04	12:09	12:15		N/A
Temperature	12.02	12.57	12.70	12.65	12.76		©
Spec. Conductivity	0.536	0.526	0.522	0.519	0.519		**(m s/m)**
Dissolved Oxygen	1.37	1.06	0.73	0.56	0.51		**ms/L**
PH	7.29	7.29	7.31	7.32	7.34		**STD**
ORP	-110.5	-141.8	-159.7	-166.0	-165.7		**(G/L)**
Turbitidy	132	82.3	41.1	23.2	8.58		(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments: **DUP**

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.0						
Time	11:47	11:51	11:56	12:03			
SWL	3.27	3.95	4.40	4.48			
Pump Depth	2.5	2.5	2.5	2.5			

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date	3/7/2005	**Time**	12:55	**Weather**	sunny, 60 degrees
Sampler	BS			**Well/Sample #**	**USTBB293-MW05**
Depth To Bottom (ft)	12	**Depth To Water (ft)**	4.79	**Water Depth (ft)**	7.21
Well Vol.	1.18	**Purge Vol.**	3.54	**Vol. Purged**	
Sampling Device (pump/Bailer)					

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	12:27	12:33					N/A
Temperature	14.4	15.2					©
Spec. Conductivity	4.012	3.704					**(m s/m)**
Dissolved Oxygen	1.47	1.12					**ms/L**
PH	7.02	6.99					**STD**
ORP	-232.9	-255.4					**(G/L)**
Turbitidy	67.6	22.1					(NTU)

Analyte	**Size**	**Preserv.**
6210D	**3 X 40 ml**	**HCL**
625	**1 X 1 L**	**None**
VPH	**2 X 40 ml**	**HCL**

Comments:	Dry at 2.2 vol.; waited 20 minutes; took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.0						
Time	12:20	12:23	12:25	12:26	12:29	12:34	
SWL	4.79	5.99	6.90	7.80	8.97	10.15	
Pump Depth	0.6	0.6	0.6	0.6	0.6	0.6	

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/8/2005 **Time** 10:50 **Weather** cloudy, 50 degrees

Sampler BS **Well/Sample #** USTBB293-MW06

Depth To Bottom (ft) 12 **Depth To Water (ft)** 3.63 **Water Depth (ft)** 8.37

Well Vol. 1.37 **Purge Vol.** 4.11 **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time	10:20	10:26	10:33	10:39	10:45		N/A
Temperature	13.74	13.88	13.96	13.93	13.97		©
Spec. Conductivity	0.391	0.432	0.458	0.46	0.466		**(m s/m)**
Dissolved Oxygen	2.38	1.89	1.46	1.53	1.51		**ms/L**
PH	7.38	7.32	7.27	7.23	7.22		**STD**
ORP	-44.3	-32.5	-32.4	-31.0	-30.0		**(G/L)**
Turbitidy	117	75.0	36.7	16.2	18.6		(NTU)
Analyte	**Size**	**Preserv.**					
6210D	**3 X 40 ml**	**HCL**					
625	**1 X 1 L**	**None**					
VPH	**2 X 40 ml**	**HCL**					
Comments:							

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid	0.0						
Time	10:15	10:18	10:23	10:28	10:44		
SWL	3.63	4.61	4.37	4.37	4.47		
Pump Depth	2.5	2.5	2.5	2.5	2.5		

ENGINEERING AND ENVIRONMENT, INC.

BB293 Field Data

Project #LD03-015

Date 3/8/2005 **Time** 14:20 **Weather** partly cloudy

Sampler BS **Well/Sample #** **USTBB293-PW**

Depth To Bottom (ft) N/A **Depth To Water (ft)** N/A **Water Depth (ft)** N/A

Well Vol. **Purge Vol.** **Vol. Purged**

Sampling Device (pump/Bailer)

	ONE	TWO	THREE	FOUR	FIVE	SIX	UNIT
Time							N/A
Temperature							©
Spec. Conductivity							**(m s/m)**
Dissolved Oxygen							**ms/L**
PH							**STD**
ORP							**(G/L)**
Turbitidy							(NTU)

Analyte	Size	Preserv.
6210D	3 X 40 ml	HCL
625	1 X 1 L	None
VPH	2 X 40 ml	HCL

Comments:	Ran pump 10 minutes; took sample

2" well vol.=water depth X 0.1632 4" well vol.=water depth x 0.6528

Pid							
Time							
SWL							
Pump Depth							

APPENDIX B

LABORATORY ANALYTICAL REPORTS

June 2004

Mr. Alfred Kozminski
Engineering & Environment, Inc.
Rosemont Interstate Center
195 S. Rosemont Raod
Virgina Beach VA 23452-4353
Report Number: G546-6

Client Project: USTBB293

Dear Mr. Kozminski:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

6/11/2004
Laboratory Director Date
J. Patrick Weaver

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW01
Client Project ID: USTBB293
Lab Sample ID: G546-6-1A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 08:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/08/2004	
Bromoform	BQL	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/08/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	BQL	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/08/2004	
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	BQL	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW01
Client Project ID: USTBB293
Lab Sample ID: G546-6-1A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 08:45
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004	
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004	
Toluene	**0.260**	0.500	0.154	1	06/08/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004	
Trichloroethene	BQL	0.500	0.201	1	06/08/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004	
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004	
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004	
o-Xylene	BQL	0.500	0.156	1	06/08/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.99	100
1,2-Dichloroethane-d4	10	9.99	100
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW02
Client Project ID: USTBB293
Lab Sample ID: G546-6-2A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 07:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/08/2004	
Bromoform	BQL	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/08/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	BQL	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/08/2004	
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	BQL	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW02
Client Project ID: USTBB293
Lab Sample ID: G546-6-2A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 07:45
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004
Toluene	BQL	0.500	0.154	1	06/08/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004
Trichloroethene	BQL	0.500	0.201	1	06/08/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004
o-Xylene	BQL	0.500	0.156	1	06/08/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	9.87	99
Toluene-d8	10	9.86	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: PNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW03
Client Project ID: USTBB293
Lab Sample ID: G546-6-3A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 11:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	**6.96**	0.500	0.195	1	06/08/2004	
Bromoform	**2.66**	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/08/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	**4.94**	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	**7.38**	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/08/2004	
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	BQL	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW03
Client Project ID: USTBB293
Lab Sample ID: G546-6-3A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 11:00
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004	
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004	
Toluene	**0.180**	0.500	0.154	1	06/08/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004	
Trichloroethene	BQL	0.500	0.201	1	06/08/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004	
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004	
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004	
o-Xylene	BQL	0.500	0.156	1	06/08/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	10.2	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW04
Client Project ID: USTBB293
Lab Sample ID: G546-6-4A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 10:25
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/08/2004	
Bromoform	BQL	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	**0.250**	0.500	0.234	1	06/08/2004	J
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	BQL	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	**0.370**	0.500	0.203	1	06/08/2004	J
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	**0.530**	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW04
Client Project ID: USTBB293
Lab Sample ID: G546-6-4A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 10:25
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004	
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004	
Toluene	**0.190**	0.500	0.154	1	06/08/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004	
Trichloroethene	BQL	0.500	0.201	1	06/08/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004	
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004	
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004	
o-Xylene	BQL	0.500	0.156	1	06/08/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.93	99
1,2-Dichloroethane-d4	10	9.77	98
Toluene-d8	10	9.73	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW05
Client Project ID: USTBB293
Lab Sample ID: G546-6-5B
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 11:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/11/2004	
Bromobenzene	BQL	0.500	0.199	1	06/11/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/11/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/11/2004	
Bromoform	BQL	0.500	0.116	1	06/11/2004	
Bromomethane	BQL	0.500	0.398	1	06/11/2004	
n-Butylbenzene	**3.56**	0.500	0.262	1	06/11/2004	
sec-Butylbenzene	**2.20**	0.500	0.234	1	06/11/2004	
tert-Butylbenzene	**0.440**	0.500	0.181	1	06/11/2004	J
Carbon tetrachloride	BQL	0.500	0.150	1	06/11/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/11/2004	
Chloroethane	BQL	0.500	0.373	1	06/11/2004	
Chloroform	BQL	0.500	0.195	1	06/11/2004	
Chloromethane	BQL	0.500	0.457	1	06/11/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/11/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/11/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/11/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/11/2004	
Dibromomethane	BQL	0.500	0.276	1	06/11/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/11/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/11/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/11/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/11/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/11/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/11/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/11/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/11/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/11/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/11/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/11/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/11/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/11/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/11/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/11/2004	
Ethylbenzene	**11.1**	0.500	0.183	1	06/11/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/11/2004	
Isopropylbenzene	**3.33**	0.500	0.163	1	06/11/2004	
4-Isopropyltoluene	**2.45**	0.500	0.203	1	06/11/2004	
Methylene chloride	BQL	5.00	0.176	1	06/11/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/11/2004	
Naphthalene	**180**	5.00	2.59	10	06/11/2004	
n-Propyl benzene	**4.87**	0.500	0.203	1	06/11/2004	
Styrene	BQL	0.500	0.235	1	06/11/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/11/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-MW05
Client Project ID: USTBB293
Lab Sample ID: G546-6-5B
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 11:45
Date Received: 06/04/2004
Matrix: Water

1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/11/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/11/2004
Toluene	BQL	0.500	0.154	1	06/11/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/11/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/11/2004
Trichloroethene	BQL	0.500	0.201	1	06/11/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/11/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/11/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/11/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/11/2004
1,2,4-Trimethylbenzene	**38.2**	0.500	0.205	1	06/11/2004
1,3,5-Trimethylbenzene	**7.27**	0.500	0.179	1	06/11/2004
Vinyl chloride	BQL	0.500	0.464	1	06/11/2004
m-,p-Xylene	**1.55**	1.00	0.388	1	06/11/2004
o-Xylene	**6.55**	0.500	0.156	1	06/11/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	9.99	100

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW06
Client Project ID: USTBB293
Lab Sample ID: G546-6-6B
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 09:20
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/11/2004	
Bromobenzene	BQL	0.500	0.199	1	06/11/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/11/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/11/2004	
Bromoform	BQL	0.500	0.116	1	06/11/2004	
Bromomethane	BQL	0.500	0.398	1	06/11/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/11/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/11/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/11/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/11/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/11/2004	
Chloroethane	BQL	0.500	0.373	1	06/11/2004	
Chloroform	BQL	0.500	0.195	1	06/11/2004	
Chloromethane	BQL	0.500	0.457	1	06/11/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/11/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/11/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/11/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/11/2004	
Dibromomethane	BQL	0.500	0.276	1	06/11/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/11/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/11/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/11/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/11/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/11/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/11/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/11/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/11/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/11/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/11/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/11/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/11/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/11/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/11/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/11/2004	
Ethylbenzene	**0.510**	0.500	0.183	1	06/11/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/11/2004	
Isopropylbenzene	**0.300**	0.500	0.163	1	06/11/2004	J
4-Isopropyltoluene	BQL	0.500	0.203	1	06/11/2004	
Methylene chloride	BQL	5.00	0.176	1	06/11/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/11/2004	
Naphthalene	**0.680**	0.500	0.259	1	06/11/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/11/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW06
Client Project ID: USTBB293
Lab Sample ID: G546-6-6B
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 09:20
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/11/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/11/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/11/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/11/2004
Toluene	BQL	0.500	0.154	1	06/11/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/11/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/11/2004
Trichloroethene	BQL	0.500	0.201	1	06/11/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/11/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/11/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/11/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/11/2004
1,2,4-Trimethylbenzene	**0.520**	0.500	0.205	1	06/11/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/11/2004
Vinyl chloride	BQL	0.500	0.464	1	06/11/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/11/2004
o-Xylene	BQL	0.500	0.156	1	06/11/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	9.97	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: USTBB293
Lab Sample ID: G546-6-7A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 00:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/08/2004	
Bromoform	BQL	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/08/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	BQL	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/08/2004	
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	BQL	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: USTBB293
Lab Sample ID: G546-6-7A
Lab Project ID: G546-6

Analyzed By: JTF
Date Collected: 06/04/2004 00:00
Date Received: 06/04/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004
Toluene	BQL	0.500	0.154	1	06/08/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004
Trichloroethene	BQL	0.500	0.201	1	06/08/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004
o-Xylene	BQL	0.500	0.156	1	06/08/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10	100
1,2-Dichloroethane-d4	10	9.88	99
Toluene-d8	10	9.8	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3061004B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/10/2004	
Bromobenzene	BQL	0.500	0.199	1	06/10/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/10/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/10/2004	
Bromoform	BQL	0.500	0.116	1	06/10/2004	
Bromomethane	BQL	0.500	0.398	1	06/10/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/10/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/10/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/10/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/10/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/10/2004	
Chloroethane	BQL	0.500	0.373	1	06/10/2004	
Chloroform	BQL	0.500	0.195	1	06/10/2004	
Chloromethane	BQL	0.500	0.457	1	06/10/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/10/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/10/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/10/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/10/2004	
Dibromomethane	BQL	0.500	0.276	1	06/10/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/10/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/10/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/10/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/10/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/10/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/10/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/10/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/10/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/10/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/10/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/10/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/10/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/10/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/10/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/10/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/10/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/10/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/10/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/10/2004	
Methylene chloride	BQL	5.00	0.176	1	06/10/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/10/2004	
Naphthalene	BQL	0.500	0.259	1	06/10/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/10/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3061004B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/10/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/10/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/10/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/10/2004
Toluene	BQL	0.500	0.154	1	06/10/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/10/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/10/2004
Trichloroethene	BQL	0.500	0.201	1	06/10/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/10/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/10/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/10/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/10/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/10/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/10/2004
Vinyl chloride	BQL	0.500	0.464	1	06/10/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/10/2004
o-Xylene	BQL	0.500	0.156	1	06/10/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	9.92	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNL

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 06/10/04
File: 0610314.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	9.66	96.6	60.0	140
bromobenzene	10	8.88	88.8	60.0	140
bromochloromethane	10	9.32	93.2	60.0	140
bromodichloromethane	10	9.00	90.0	60.0	140
bromoform	10	9.64	96.4	60.0	140
bromomethane	10	11.83	118.3	60.0	140
n-butylbenzene	10	8.93	89.3	60.0	140
sec-butylbenzene	10	9.00	90.0	60.0	140
tert-butylbenzene	10	8.84	88.4	60.0	140
carbon tetrachloride	10	9.16	91.6	60.0	140
chlorobenzene	10	9.37	93.7	60.0	140
chloroethane	10	10.51	105.1	60.0	140
chloroform	10	8.97	89.7	60.0	140
chloromethane	10	9.74	97.4	60.0	140
2-chlorotoluene	10	9.03	90.3	60.0	140
4-chlorotoluene	10	9.09	90.9	60.0	140
dibromochloromethane	10	9.13	91.3	60.0	140
1,2-dibromomethane	10	9.26	92.6	60.0	140
dibromomethane	10	9.12	91.2	60.0	140
1,2-dichlorobenzene	10	9.41	94.1	60.0	140
1,3-dichlorobenzene	10	9.29	92.9	60.0	140
1,4-dichlorobenzene	10	9.00	90.0	60.0	140
dichlorodifluoromethane	10	9.97	99.7	60.0	140
1,1-dichloroethane	10	9.78	97.8	60.0	140
1,2-dichloroethane	10	8.89	88.9	60.0	140
1,1-dichloroethene	10	9.02	90.2	60.0	140
cis-1,2-dichloroethene	10	9.06	90.6	60.0	140
trans-1,2-dichloroethene	10	9.83	98.3	60.0	140
1,2-dichloropropane	10	9.74	97.4	60.0	140
1,3-dichloropropane	10	8.74	87.4	60.0	140
2,2-dichloropropane	10	9.97	99.7	60.0	140
1,1-dichloropropene	10	8.94	89.4	60.0	140
cis-1,3-dichloropropene	10	9.68	96.8	60.0	140
trans-1,3-dichloropropene	10	9.07	90.7	60.0	140
diisopropyl ether	10	9.98	99.8	60.0	140
ethylbenzene	10	8.92	89.2	60.0	140
hexachlorobutadiene	10	8.39	83.9	60.0	140
isopropylbenzene	10	9.01	90.1	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 06/10/04
File: 0610314.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	10	8.95	89.5	60.0	140
methyl-tert-butyl ether	10	9.94	99.4	60.0	140
methylene chloride	10	9.76	97.6	60.0	140
naphthalene	10	8.49	84.9	60.0	140
n-propyl benzene	10	9.03	90.3	60.0	140
styrene	10	9.13	91.3	60.0	140
1,1,1,2-tetrachloroethane	10	9.01	90.1	60.0	140
1,1,2,2-tetrachloroethane	10	9.21	92.1	60.0	140
tetrachloroethene	10	9.01	90.1	60.0	140
toluene	10	9.53	95.3	60.0	140
1,2,3-trichlorobenzene	10	8.95	89.5	60.0	140
1,2,4-trichlorobenzene	10	8.70	87.0	60.0	140
1,1,1-trichloroethane	10	9.17	91.7	60.0	140
1,1,2-trichloroethane	10	8.96	89.6	60.0	140
trichloroethene	10	8.89	88.9	60.0	140
trichlorofluoromethane	10	10.63	106.3	60.0	140
1,2,3-trichloropropane	10	8.95	89.5	60.0	140
1,2,4-trimethylbenzene	10	9.01	90.1	60.0	140
1,3,5-trimethylbenzene	10	9.03	90.3	60.0	140
vinyl chloride	10	9.40	94.0	60.0	140
m/p-xylene	20	17.86	89.3	60.0	140
o-xylene	10	9.03	90.3	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: _____

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: LCS005
Analyst: JTF
Batch ID: 3061004

Date Analyzed: 06/10/04
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.80	95.9	77.4	123
chlorobenzene	5.0	4.74	94.9	72.5	128
1,1-dichloroethene	5.0	4.52	90.4	71.7	128
toluene	5.0	4.68	93.5	75.9	124
trichloroethene	5.0	4.54	90.8	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: RNP

VO42.072303.1

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g429-37-2
Batch ID: 3061004

Date Analyzed: 11 Jun 2004 4:49 am
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	106.3	96.8	61.6	135	9.3	30
chlorobenzene	BQL	5	102.3	92.0	77.2	118	10.6	30
1,1-dichloroethene	BQL	5	103.0	92.2	64.4	130	11.1	30
toluene	BQL	5	103.1	95.2	66.4	128	7.9	30
trichloroethene	13.0	5	103.0	95.9	84.9	136	7.1	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: RNP

VO43.072303.1

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4060804B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/08/2004	
Bromobenzene	BQL	0.500	0.199	1	06/08/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/08/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/08/2004	
Bromoform	BQL	0.500	0.116	1	06/08/2004	
Bromomethane	BQL	0.500	0.398	1	06/08/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/08/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/08/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/08/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/08/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/08/2004	
Chloroethane	BQL	0.500	0.373	1	06/08/2004	
Chloroform	BQL	0.500	0.195	1	06/08/2004	
Chloromethane	BQL	0.500	0.457	1	06/08/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/08/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/08/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/08/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/08/2004	
Dibromomethane	BQL	0.500	0.276	1	06/08/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/08/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/08/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/08/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/08/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/08/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/08/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/08/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/08/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/08/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/08/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/08/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/08/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/08/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/08/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/08/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/08/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/08/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/08/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/08/2004	
Methylene chloride	BQL	5.00	0.176	1	06/08/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/08/2004	
Naphthalene	BQL	0.500	0.259	1	06/08/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/08/2004	

Results for Volatiles by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4060804B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/08/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/08/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/08/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/08/2004
Toluene	BQL	0.500	0.154	1	06/08/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/08/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/08/2004
Trichloroethene	BQL	0.500	0.201	1	06/08/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/08/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/08/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/08/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/08/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/08/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/08/2004
Vinyl chloride	BQL	0.500	0.464	1	06/08/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/08/2004
o-Xylene	BQL	0.500	0.156	1	06/08/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	9.94	99
Toluene-d8	10	10.2	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 06/08/04
File: 0608407.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	9.16	91.6	60.0	140
bromobenzene	10	10.11	101.1	60.0	140
bromochloromethane	10	9.92	99.2	60.0	140
bromodichloromethane	10	10.41	104.1	60.0	140
bromoform	10	10.94	109.4	60.0	140
bromomethane	10	12.23	122.3	60.0	140
n-butylbenzene	10	9.63	96.3	60.0	140
sec-butylbenzene	10	9.67	96.7	60.0	140
tert-butylbenzene	10	9.80	98.0	60.0	140
carbon tetrachloride	10	9.42	94.2	60.0	140
chlorobenzene	10	9.30	93.0	60.0	140
chloroethane	10	10.46	104.6	60.0	140
chloroform	10	8.79	87.9	60.0	140
chloromethane	10	8.19	81.9	60.0	140
2-chlorotoluene	10	9.70	97.0	60.0	140
4-chlorotoluene	10	9.63	96.3	60.0	140
dibromochloromethane	10	9.72	97.2	60.0	140
1,2-dibromomethane	10	9.65	96.5	60.0	140
dibromomethane	10	9.36	93.6	60.0	140
1,2-dichlorobenzene	10	10.00	100.0	60.0	140
1,3-dichlorobenzene	10	9.94	99.4	60.0	140
1,4-dichlorobenzene	10	10.06	100.6	60.0	140
dichlorodifluoromethane	10	10.60	106.0	60.0	140
1,1-dichloroethane	10	9.04	90.4	60.0	140
1,2-dichloroethane	10	8.96	89.6	60.0	140
1,1-dichloroethene	10	9.26	92.6	60.0	140
cis-1,2-dichloroethene	10	9.19	91.9	60.0	140
trans-1,2-dichloroethene	10	8.80	88.0	60.0	140
1,2-dichloropropane	10	9.00	90.0	60.0	140
1,3-dichloropropane	10	9.21	92.1	60.0	140
2,2-dichloropropane	10	9.66	96.6	60.0	140
1,1-dichloropropene	10	9.42	94.2	60.0	140
cis-1,3-dichloropropene	10	10.34	103.4	60.0	140
trans-1,3-dichloropropene	10	10.53	105.3	60.0	140
diisopropyl ether	10	9.60	96.0	60.0	140
ethylbenzene	10	9.29	92.9	60.0	140
hexachlorobutadiene	10	11.17	111.7	60.0	140
isopropylbenzene	10	9.69	96.9	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 06/08/04
File: 0608407.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	10	9.83	98.3	60.0	140
methyl-tert-butyl ether	10	10.31	103.1	60.0	140
methylene chloride	10	8.71	87.1	60.0	140
naphthalene	10	11.98	119.8	60.0	140
n-propyl benzene	10	9.63	96.3	60.0	140
styrene	10	11.63	116.3	60.0	140
1,1,1,2-tetrachloroethane	10	10.14	101.4	60.0	140
1,1,2,2-tetrachloroethane	10	9.54	95.4	60.0	140
tetrachloroethene	10	9.71	97.1	60.0	140
toluene	10	9.04	90.4	60.0	140
1,2,3-trichlorobenzene	10	12.30	123.0	60.0	140
1,2,4-trichlorobenzene	10	11.56	115.6	60.0	140
1,1,1-trichloroethane	10	9.22	92.2	60.0	140
1,1,2-trichloroethane	10	9.29	92.9	60.0	140
trichloroethene	10	9.10	91.0	60.0	140
trichlorofluoromethane	10	11.25	112.5	60.0	140
1,2,3-trichloropropane	10	9.92	99.2	60.0	140
1,2,4-trimethylbenzene	10	9.46	94.6	60.0	140
1,3,5-trimethylbenzene	10	9.60	96.0	60.0	140
vinyl chloride	10	9.89	98.9	60.0	140
m/p-xylene	20	19.70	98.5	60.0	140
o-xylene	10	9.60	96.0	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: RW

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: LCS005
Analyst: JTF
Batch ID: 4060804

Date Analyzed: 06/08/04
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.56	91.3	77.4	123
chlorobenzene	5.0	4.80	96.1	72.5	128
1,1-dichloroethene	5.0	4.77	95.4	71.7	128
toluene	5.0	4.51	90.3	75.9	124
trichloroethene	5.0	4.63	92.7	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: _____

VO42.072303.1

Results for MS/MSD

by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g429-37-1
Batch ID: 4060804

Date Analyzed: 8 Jun 2004 9:06 pm
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	97.6	94.2	61.6	135	3.6	30
chlorobenzene	BQL	5	101.5	99.8	77.2	118	1.7	30
1,1-dichloroethene	BQL	5	103.8	113.9	64.4	130	9.3	30
toluene	BQL	5	100.1	91.7	66.4	128	8.8	30
trichloroethene	BQL	5	98.0	96.2	84.9	136	1.8	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: RNP

VO43.072303.1

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW01
Client Project ID: USTBB293
Lab Sample ID: G546-6-1I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 08:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW01
Client Project ID: USTBB293
Lab Sample ID: G546-6-1I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 08:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	7.8	78
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	8.9	89

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNV

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW01
Client Project ID: USTBB293
Lab Sample ID: G546-6-1I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 08:45
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW02
Client Project ID: USTBB293
Lab Sample ID: G546-6-2l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 07:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW02
Client Project ID: USTBB293
Lab Sample ID: G546-6-2l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 07:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	9.2	92

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW02
Client Project ID: USTBB293
Lab Sample ID: G546-6-2I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 07:45
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW03
Client Project ID: USTBB293
Lab Sample ID: G546-6-3I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW03
Client Project ID: USTBB293
Lab Sample ID: G546-6-3I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.7	77
2-Fluorophenol	10	8.8	88
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	9.4	94

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

N.C. CERTIFICATION #481

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW03
Client Project ID: USTBB293
Lab Sample ID: G546-6-3I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:00
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW04
Client Project ID: USTBB293
Lab Sample ID: G546-6-4I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 10:25
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	1.90	10.0	1.33	1	06/10/2004	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW04
Client Project ID: USTBB293
Lab Sample ID: G546-6-4I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 10:25
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	7.9	79
2,4,6-Tribromophenol	10	9.4	94
4-Terphenyl-d14	10	9.4	94

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: RNP

N.C. CERTIFICATION #481

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW04
Client Project ID: USTBB293
Lab Sample ID: G546-6-4I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 10:25
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW05
Client Project ID: USTBB293
Lab Sample ID: G546-6-5l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.70	10.0	1.22	1	06/10/2004	J
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	3.60	10.0	1.22	1	06/10/2004	J
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW05
Client Project ID: USTBB293
Lab Sample ID: G546-6-5l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:45
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	130	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	2.30	10.0	1.38	1	06/10/2004	J
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8.1	81
2,4,6-Tribromophenol	10	8.9	89
4-Terphenyl-d14	10	9.2	92

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW05
Client Project ID: USTBB293
Lab Sample ID: G546-6-5l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 11:45
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	1-Methylnaphthalene	10.39	000090-12-0	99	65
2	Trimethylbenzene, Isomer of	6.94			62
3	Camphor	8.72	000076-22-2	95	58
4	Ethylmethylbenzene, Isomer of	7.27			47
5	Dimethylbenzoic acid, Isomer of	11.16			45
6	Propenylbenzene, Isomer of	7.44			23
7	Aromatic acid, Unknown	12.08			23
8	Unknown	10.60			21
9	Unknown	9.77			16
10	Dimethylnaphthalene, Isomer of	11.37			15

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW06
Client Project ID: USTBB293
Lab Sample ID: G546-6-6l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 09:20
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW06
Client Project ID: USTBB293
Lab Sample ID: G546-6-6l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 09:20
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	6.8	68
Nitrobenzene-d5	10	7.3	73
Phenol-d6	10	6.8	68
2,4,6-Tribromophenol	10	8.7	87
4-Terphenyl-d14	10	7.9	79

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RHP

N.C. CERTIFICATION #481

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW06
Client Project ID: USTBB293
Lab Sample ID: G546-6-6l
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 09:20
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

N.C. CERTIFICATION #481

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: USTBB293
Lab Sample ID: G546-6-7I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 00:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/10/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/10/2004	
Anthracene	BQL	10.0	1.75	1	06/10/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/10/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/10/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/10/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/10/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/10/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/10/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/10/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/10/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/10/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/10/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/10/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/10/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/10/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/10/2004	
Chrysene	BQL	10.0	1.11	1	06/10/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/10/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/10/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/10/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/10/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/10/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/10/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/10/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/10/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/10/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/10/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/10/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/10/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/10/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/10/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/10/2004	
Fluoranthene	BQL	10.0	1.41	1	06/10/2004	
Fluorene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/10/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/10/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/10/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/10/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/10/2004	
Isophorone	BQL	10.0	1.27	1	06/10/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: USTBB293
Lab Sample ID: G546-6-7I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 00:00
Date Received: 06/04/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/10/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/10/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/10/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/10/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/10/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/10/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/10/2004	
Phenanthrene	BQL	10.0	1.38	1	06/10/2004	
Phenol	BQL	10.0	3.38	1	06/10/2004	
Pyrene	BQL	10.0	2.08	1	06/10/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/10/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/10/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.5	75
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	8.1	81
2,4,6-Tribromophenol	10	9.2	92
4-Terphenyl-d14	10	9.2	92

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RWP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-DUP
Client Project ID: USTBB293
Lab Sample ID: G546-6-7I
Lab Project ID: G546-6

Analyzed By: MRC
Date Collected: 06/04/2004 00:00
Date Received: 06/04/2004
Matrix: Water

Dilution: 1

Date Analyzed: 06-10-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

N.C. CERTIFICATION #481

Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB1233
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/09/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/09/2004	
Anthracene	BQL	10.0	1.75	1	06/09/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/09/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/09/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/09/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/09/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/09/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/09/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/09/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/09/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/09/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/09/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/09/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/09/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/09/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/09/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/09/2004	
Chrysene	BQL	10.0	1.11	1	06/09/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/09/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/09/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/09/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/09/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/09/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/09/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/09/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/09/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/09/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/09/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/09/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/09/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/09/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/09/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/09/2004	
Fluoranthene	BQL	10.0	1.41	1	06/09/2004	
Fluorene	BQL	10.0	1.22	1	06/09/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/09/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/09/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/09/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/09/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/09/2004	
Isophorone	BQL	10.0	1.27	1	06/09/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB1233
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/09/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/09/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/09/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/09/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/09/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/09/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/09/2004	
Phenanthrene	BQL	10.0	1.38	1	06/09/2004	
Phenol	BQL	10.0	3.38	1	06/09/2004	
Pyrene	BQL	10.0	2.08	1	06/09/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/09/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/09/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.8	68
2-Fluorophenol	10	7	70
Nitrobenzene-d5	10	7.4	74
Phenol-d6	10	7	70
2,4,6-Tribromophenol	10	7.7	77
4-Terphenyl-d14	10	8.7	87

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results For Water Laboratory Control Standard (LCS)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-LCS-1233
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 06/09/04
Analyzed By: MRC

	Spiked	LCS	LCS	LIMITS	
	ng	ng	% Rec.	LOWER	UPPER
Acenaphthylene	10	8.15	81	74	158
4-Chloro-3-methylphenol	10	8.73	87	50	130
2-Chlorophenol	10	7.79	78	58	112
1,4-Dichlorobenzene	10	5.54	55	31	86
2,4-Dinitrotoluene	10	8.17	82	61	139
N-Nitrosodi-n-propylamine	10	8.59	86	53	131
4-Nitrophenol	10	10.11	101	25	161
Pentachlorophenol	10	8.13	81	40	113
Phenol	10	7.91	79	55	114
Pyrene	10	8.21	82	55	147
1,2,4-Trichlorobenzene	10	7.83	78	44	117

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: RW

Results For Water Matrix Spike / Matrix Spike Duplicate (MS/MSD)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-MS-1233
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 06/09/04
Analyzed By: MRC
Dilution: 1

	Sample	Spiked	MS	MSD	Limits		RPD	Limit
					Lower	Upper		Max.
	ng	ng	%	%	%	%	%	%
Acenaphthylene	BQL	10	88	81	80	161	7.3	30
4-Chloro-3-methylphenol	BQL	10	75	70	62	123	6.9	30
2-Chlorophenol	BQL	10	72	69	60	113	4.1	30
1,4-Dichlorobenzene	BQL	10	52	46	40	90	12.6	30
2,4-Dinitrotoluene	BQL	10	88	82	71	136	7.6	30
N-Nitrosodi-n-propylamine	BQL	10	82	79	56	131	3.5	30
4-Nitrophenol	BQL	10	108	96	40	173	11.1	30
Pentachlorophenol	BQL	10	78	70	50	116	10.8	30
Phenol	BQL	10	71	71	58	115	0.1	30
Pyrene	BQL	10	85	78	62	143	8.3	30
1,2,4-Trichlorobenzene	BQL	10	75	68	56	114	10.1	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: RHP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	83
Aromatic Surrogate % Recovery	83

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-6-1J

Reviewed By: RNV

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	85
Aromatic Surrogate % Recovery	86

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-6-2J

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW03
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	88

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-6-3J

Reviewed By: [signature]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	85
Aromatic Surrogate % Recovery	86

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-6-4J

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/11/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	360 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	540 (µg/L)
Aliphatic Surrogate % Recovery	67
Aromatic Surrogate % Recovery	80
Fractionation Surrogate 1 % Recovery	140

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-6-5J

Reviewed By: FNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/11/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	72
Aromatic Surrogate % Recovery	82
Fractionation Surrogate 1 % Recovery	110

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-6-6J

Reviewed By: TNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	86
Aromatic Surrogate % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-6-7J

Reviewed By: RNP

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/13/04

Calibration Ranges and Limits

Range	MDL (mg/Kg)	MDL (µg/L)	ML (mg/Kg)	ML (µg/L)	RL (mg/Kg)	RL (µg/L)
C_9-C_{18} Aliphatics	0.1	0.8	0.3	2.6	100	10
C_{19}-C_{36} Aliphatics	0.1	1.6	0.3	5	100	10
C_{11}-C_{22} Aromatics	0.2	2.1	0.6	6.7	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	0.6	10	6.50	Calibration Factor
	1.5	25		
	3	50		
	6	100		
	30	500		
C_{19}-C_{36} Aliphatics	0.8	13.3	5.0	Calibration Factor
	2	33.3		
	4	66.7		
	8	133		
	40	667		
C_{11}-C_{22} Aromatics	1.7	28.3	5.3	Calibration Factor
	4.25	70.8		
	8.5	142		
	17	283		
	85	1420		

Calibration Check Date: 06/10/04

Calibration Check

Range	Levels (µg/mL)	Levels (mg/Kg)	RPD
C_9-C_{18} Aliphatics	6	100	9.0
C_{19}-C_{36} Aliphatics	8	133	8.0
C_{11}-C_{22} Aromatics	17	283	8.5

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit

RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/13/04

Calibration Ranges and Limits

Range	MDL (µg/L)	MDL (mg/Kg)	ML (µg/L)	ML (mg/Kg)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	0.1	0.8	0.3	2.6	100	10
C_{19}-C_{36} Aliphatics	0.1	1.6	0.3	5	100	10
C_{11}-C_{22} Aromatics	0.2	2.1	0.6	6.7	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	0.6	10	6.50	Calibration Factor
	1.5	25		
	3	50		
	6	100		
	30	500		
C_{19}-C_{36} Aliphatics	0.8	13.3	5.0	Calibration Factor
	2	33.3		
	4	66.7		
	8	133		
	40	667		
C_{11}-C_{22} Aromatics	1.7	28.3	5.3	Calibration Factor
	4.25	70.8		
	8.5	142		
	17	283		
	85	1420		

Calibration Check Date: 06/11/04

Calibration Check

Range	Levels (µg/mL)	Levels (mg/Kg)	RPD
C_9-C_{18} Aliphatics	6	100	10.9
C_{19}-C_{36} Aliphatics	8	133	6.2
C_{11}-C_{22} Aromatics	17	283	0.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/09/04
Date Analyzed	06/09/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	92
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-1e

Reviewed By: BNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/09/04
Date Analyzed	06/09/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-2e

Reviewed By: BJP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/09/04
Date Analyzed	06/09/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	95
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-4e

Reviewed By: [signature]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	890 (µg/L)
C_9-C_{10} Aromatics**	280 (µg/L)
Surrogate % Recovery - PID	72
Surrogate % Recovery - FID	89

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-5e

Reviewed By: RWL

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	93
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-6e

Reviewed By: RWP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: USTBB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/04/04
Date Received	06/04/04
Date Extracted	06/10/04
Date Analyzed	06/10/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	93
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-6-7e

Reviewed By: RWP

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/02/04 PID Initial Calibration Date: 06/02/04

Calibration Ranges and Limits

Range	MDL (µg/L)	MDL (mg/Kg)	ML (µg/L)	ML (mg/Kg)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	9.3	0.41	29.4	1.3	100	10
C_9-C_{12} Aliphatics	7.9	0.3	25.2	0.97	100	10
C_9-C_{10} Aromatics	0.5	0.04	1.5	0.14	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	14.5	Calibration Factor
	160		
	400		
	1600		
	4000		
C_9-C_{12} Aliphatics	10	21.4	Calibration Factor
	40		
	100		
	400		
	1000		
C_9-C_{10} Aromatics	10	1	Linear Regression
	40		
	100		
	400		
	1000		

Calibration Check Date: 06/09/04

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	1600	160	16.3
C_9-C_{12} Aliphatics	400	40	11.0
C_9-C_{10} Aromatics	400	40	-12.6

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Metals

Client Sample ID:	USTBB293-MW01	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 08:45
Lab Sample ID:	G546-6-1H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RNV

Results for Metals

Client Sample ID:	USTBB293-MW02	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 07:45
Lab Sample ID:	G546-6-2H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RW

Results for Metals

Client Sample ID:	USTBB293-MW03	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 11:00
Lab Sample ID:	G546-6-3H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RW

Results for Metals

Client Sample ID:	USTBB293-MW04	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 10:25
Lab Sample ID:	G546-6-4H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: 

Results for Metals

Client Sample ID:	USTBB293-MW05	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 11:45
Lab Sample ID:	G546-6-5H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	**0.0394**	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: _____

Results for Metals

Client Sample ID:	USTBB293-MW06	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 09:20
Lab Sample ID:	G546-6-6H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RNP

Results for Metals

Client Sample ID:	USTBB293-DUP	Analyzed By:	PSW
Client Project ID:	USTBB293	Date Collected:	6/4/2004 00:00
Lab Sample ID:	G546-6-7H	Date Received:	6/4/04
Lab Project ID:	G546-6	Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RNV

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3241	Date Received:	
Lab Project ID:		Matrix:	Water
Batch ID:	3241		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Chromium	BQL	0.0100	1	MG/L	6010B	6/9/04
Lead	BQL	0.0100	1	MG/L	6010B	6/9/04

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Samples Digested by Method 3030C

Reviewed By: RNP

Paradigm Analytical
Results for LCS/LCD

Batch ID: 3241
Matrix: Water
Units: mg/L

METAL	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.40	0.397	99.3	0.398	99.4	80	120	0.17	20
Lead	0.40	0.395	98.9	0.396	99.0	80	120	0.17	20

Comments:

* = Out of limits.

Reviewed By: ____

Results for METALS MS/MSD

Sample ID: G546-7-2G
MS ID: G546-7-2G
MSD ID: G546-7-2G
BATCH: 3241

Analyzed By: PSW
Matrix: Water
Units: MG/L

METAL	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	BQL	0.40	0.417	104.3	0.40	0.429	107.3	75	125	2.8	20
Lead	BQL	0.40	0.413	103.3	0.40	0.421	105.3	75	125	1.9	20

Comments:

* = out of limits
NA = not applicable, sample concentration is greater than ten times spike concentration.

Reviewed By: RM

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES

Chain-of-Custody Record & Analytical Request

5500 Business Drive Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

Client:	Engineering & Environment Inc	Project ID:	USTBB293	Date:	6/4/2004
Address:	824 Gum Branch Rd	P.O.Number:		Turnaround:	Standard
	Jacksonville, NC	Contact:	Bill Morris	Job Number:	TO 0011
	28546	Phone:	(910) 989-3214	Fax:	(910) 989-3341

						6210D W/IPE MTBE	VPH	EPH	625 + 10 TICs	6010B/3030C Pb+Cr				Comments
														G546-6
USTBB293-MW01	6/4/2004	8:45	GW	3	HCL	X								
USTBB293-MW01	6/4/2004	8:45	GW	2	HCL		X							
USTBB293-MW01	6/4/2004	8:45	GW	1	HCL			X						Pb+Cr per
USTBB293-MW01	6/4/2004	8:45	GW	1	None				X					Bob Sellers 6/7/04
USTBB293-MW01	6/4/2004	8:45	GW	1	HNO3					X				
USTBB293-MW02	6/4/2004	7:45	GW	3	HCL	X								
USTBB293-MW02	6/4/2004	7:45	GW	2	HCL		X							
USTBB293-MW02	6/4/2004	7:45	GW	1	None			X						
USTBB293-MW02	6/4/2004	7:45	GW	1	HCL				X					
USTBB293-MW02	6/4/2004	7:45	GW	1	HNO3					X				

Bob Sellers	6-4-04	13:40	Julie Johnson	6/4/04	1700	1.2, 0.8°		
						on ice		

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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PARADIGM ANALYTICAL LABORATORIES

Chain-of-Custody Record & Analytical Request

5500 Business Drive Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

Client:	Engineering & Environment Inc	Project ID:	USTBB293	Date:	6/4/2004
Address:	824 Gum Branch Rd	P.O.Number:		Turnaround:	Standard
	Jacksonville, NC	Contact:	Bill Morris	Job Number:	TO 0011
	28546	Phone:	(910) 989-3214	Fax:	(910) 989-3341

						6210D W/IPE MTBE	VPH	EPH	625 + 10 TICs	6010B/3030C				Comments
														G546-6
USTBB293-MW03	6/4/2004	11:00	GW	3	HCL	X								
USTBB293-MW03	6/4/2004	11:00	GW	2	HCL		X							
USTBB293-MW03	6/4/2004	11:00	GW	1	HCL			X						
USTBB293-MW03	6/4/2004	11:00	GW	1	None				X					
USTBB293-MW03	6/4/2004	11:00	GW	1	HNO3					X				
USTBB293-MW04	6/4/2004	10:25	GW	3	HCL	X								
USTBB293-MW04	6/4/2004	10:25	GW	2	HCL		X							
USTBB293-MW04	6/4/2004	10:25	GW	1	None			X						
USTBB293-MW04	6/4/2004	10:25	GW	1	HCL				X					
USTBB293-MW04	6/4/2004	10:25	GW	1	HNO3					X				

Bob Sellers	6-4-04	13:40	Julie Johnson	6/4/04	1700	1-2, 08C on ice

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

PARADIGM ANALYTICAL LABORATORIES

Chain-of-Custody Record & Analytical Request

5500 Business Drive Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

Client: Engineering & Environment Inc
Address: 824 Gum Branch Rd
Jacksonville, NC
28546

Project ID: USTBB293
P.O.Number:
Contact: Bill Morris
Phone: (910) 989-3214

Date: 6/4/2004
Turnaround: Standard
Job Number: TO 0011
Fax: (910) 989-3341

						6210D W/IPE MTBE	VPH	EPH	625 + 10 TICs	6010B/3030C				Comments
														G546-6
USTBB293-MW05	6/4/2004	11:45	GW	3	HCL	X								
USTBB293-MW05	6/4/2004	11:46	GW	2	HCL		X							
USTBB293-MW05	6/4/2004	11:45	GW	1	HCL			X						
USTBB293-MW05	6/4/2004	11:45	GW	1	None				X					
USTBB293-MW05	6/4/2004	11:45	GW	1	HNO3					X				
USTBB293-MW06	6/4/2004	9:20	GW	3	HCL	X								
USTBB293-MW06	6/4/2004	9:20	GW	2	HCL		X							
USTBB293-MW06	6/4/2004	9:20	GW	1	None			X						
USTBB293-MW06	6/4/2004	9:20	GW	1	HCL				X					
USTBB293-MW06	6/4/2004	9:20	GW	1	HNO3					X				

Bob Sellers	6-4-04	13:40	Julie Johnson	6/4/04	1700	1.2,0.8°C		
						on ice		

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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PARADIGM ANALYTICAL LABORATORIES

Chain-of-Custody Record & Analytical Request

5500 Business Drive Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

Client: Engineering & Environment Inc
Address: 824 Gum Branch Rd
Jacksonville, NC
28546

Project ID: USTBB293
P.O.Number:
Contact: Bill Morris
Phone: (910) 989-3214

Date: 6/4/2004
Turnaround: Standard
Job Number: TO 0011
Fax: (910) 989-3341

						6210D W/IPE MTBE	VPH	EPH	625 + 10 TICs	6010B/3030C				Comments
														G546-6
USTBB293-DUP	6/4/2004		GW	3	HCL	X								
USTBB293-DUP	6/4/2004		GW	2	HCL		X							
USTBB293-DUP	6/4/2004		GW	1	HCL			X						
USTBB293-DUP	6/4/2004		GW	1	None				X					
USTBB293-DUP	6/4/2004		GW	1	HNO3					X				

Bob Sellers	6-4-04	13:40	Julie Johnson	6/4/04	1700	1.2, 0.8? on ice	

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Mr. Fred Kozminski
Engineering & Environment, Inc.
195 South Rosemont Rd.
Suite 118
Virginia Beach VA 23452-4353
Report Number: G546-9

Client Project: BB293

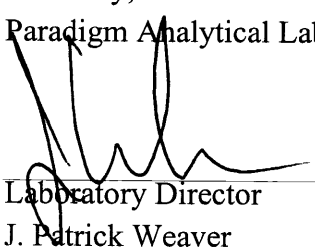
Dear Mr. Kozminski:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.



6/25/04

Laboratory Director Date
J. Patrick Weaver

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-43
Sample Matrix	Water
Date Collected	06/08/04
Date Received	06/09/04
Date Extracted	06/11/04
Date Analyzed	06/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	86

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-9-1l

Reviewed By:

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/13/04

Calibration Ranges and Limits

Range	MDL (mg/Kg)	MDL (µg/L)	ML (mg/Kg)	ML (µg/L)	RL (mg/Kg)	RL (µg/L)
C_9-C_{18} Aliphatics	0.1	0.8	0.3	2.6	100	10
C_{19}-C_{36} Aliphatics	0.1	1.6	0.3	5	100	10
C_{11}-C_{22} Aromatics	0.2	2.1	0.6	6.7	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	0.6	10	6.50	Calibration Factor
	1.5	25		
	3	50		
	6	100		
	30	500		
C_{19}-C_{36} Aliphatics	0.8	13.3	5.0	Calibration Factor
	2	33.3		
	4	66.7		
	8	133		
	40	667		
C_{11}-C_{22} Aromatics	1.7	28.3	5.3	Calibration Factor
	4.25	70.8		
	8.5	142		
	17	283		
	85	1420		

Calibration Check Date: 06/15/04

Calibration Check

Range	Levels (µg/mL)	Levels (mg/Kg)	RPD
C_9-C_{18} Aliphatics	6	100	6.9
C_{19}-C_{36} Aliphatics	8	133	1.6
C_{11}-C_{22} Aromatics	17	283	4.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-43
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	06/08/04
Date Received	06/09/04
Date Extracted	06/12/04
Date Analyzed	06/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	99
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-9-1e

Reviewed By:

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/02/04 PID Initial Calibration Date: 06/02/04

Calibration Ranges and Limits

Range	MDL (µg/L)	MDL (mg/Kg)	ML (µg/L)	ML (mg/Kg)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	9.3	0.41	29.4	1.3	100	10
C_9-C_{12} Aliphatics	7.9	0.3	25.2	0.97	100	10
C_9-C_{10} Aromatics	0.5	0.04	1.5	0.14	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	14.5	Calibration Factor
	160		
	400		
	1600		
	4000		
C_9-C_{12} Aliphatics	10	21.4	Calibration Factor
	40		
	100		
	400		
	1000		
C_9-C_{10} Aromatics	10	1	Linear Regression
	40		
	100		
	400		
	1000		

Calibration Check Date: 06/11/04

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	1600	160	5.0
C_9-C_{12} Aliphatics	400	40	-0.3
C_9-C_{10} Aromatics	400	40	-16.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-43
Client Project ID: BB293
Lab Sample ID: G546-9-1B
Lab Project ID: G546-9

Analyzed By: JTF
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/11/2004	
Bromobenzene	BQL	0.500	0.199	1	06/11/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/11/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/11/2004	
Bromoform	BQL	0.500	0.116	1	06/11/2004	
Bromomethane	BQL	0.500	0.398	1	06/11/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/11/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/11/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/11/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/11/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/11/2004	
Chloroethane	BQL	0.500	0.373	1	06/11/2004	
Chloroform	BQL	0.500	0.195	1	06/11/2004	
Chloromethane	BQL	0.500	0.457	1	06/11/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/11/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/11/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/11/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/11/2004	
Dibromomethane	BQL	0.500	0.276	1	06/11/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/11/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/11/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/11/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/11/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/11/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/11/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/11/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/11/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/11/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/11/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/11/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/11/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/11/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/11/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/11/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/11/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/11/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/11/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/11/2004	
Methylene chloride	BQL	5.00	0.176	1	06/11/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/11/2004	
Naphthalene	BQL	0.500	0.259	1	06/11/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/11/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-43
Client Project ID: BB293
Lab Sample ID: G546-9-1B
Lab Project ID: G546-9

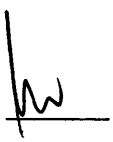
Analyzed By: JTF
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/11/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/11/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/11/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/11/2004
Toluene	BQL	0.500	0.154	1	06/11/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/11/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/11/2004
Trichloroethene	BQL	0.500	0.201	1	06/11/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/11/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/11/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/11/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/11/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/11/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/11/2004
Vinyl chloride	BQL	0.500	0.464	1	06/11/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/11/2004
o-Xylene	BQL	0.500	0.156	1	06/11/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.86	99
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-43
Client Project ID: BB293
Lab Sample ID: G546-9-1J
Lab Project ID: G546-9

Analyzed By: MRC
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	06/25/2004	
Acenaphthylene	BQL	10.0	1.12	1	06/25/2004	
Anthracene	BQL	10.0	1.75	1	06/25/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	06/25/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	06/25/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	06/25/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	06/25/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	06/25/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	06/25/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	06/25/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	06/25/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	06/25/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	06/25/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	06/25/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	06/25/2004	
2-Chlorophenol	BQL	10.0	4.22	1	06/25/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	06/25/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	06/25/2004	
Chrysene	BQL	10.0	1.11	1	06/25/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	06/25/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	06/25/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	06/25/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	06/25/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	06/25/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	06/25/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	06/25/2004	
Diethylphthalate	BQL	10.0	1.48	1	06/25/2004	
Dimethylphthalate	BQL	10.0	1.04	1	06/25/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	06/25/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	06/25/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	06/25/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	06/25/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	06/25/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	06/25/2004	
Fluoranthene	BQL	10.0	1.41	1	06/25/2004	
Fluorene	BQL	10.0	1.22	1	06/25/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	06/25/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	06/25/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	06/25/2004	
Hexachloroethane	BQL	10.0	1.58	1	06/25/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	06/25/2004	
Isophorone	BQL	10.0	1.27	1	06/25/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-43
Client Project ID: BB293
Lab Sample ID: G546-9-1J
Lab Project ID: G546-9

Analyzed By: MRC
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	06/25/2004	
Nitrobenzene	BQL	10.0	1.32	1	06/25/2004	
2-Nitrophenol	BQL	10.0	3.52	1	06/25/2004	
4-Nitrophenol	BQL	50.0	3.17	1	06/25/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	06/25/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	06/25/2004	
Pentachlorophenol	BQL	50.0	2.83	1	06/25/2004	
Phenanthrene	BQL	10.0	1.38	1	06/25/2004	
Phenol	BQL	10.0	3.38	1	06/25/2004	
Pyrene	BQL	10.0	2.08	1	06/25/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	06/25/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	06/25/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9	90
2-Fluorophenol	10	9.1	91
Nitrobenzene-d5	10	9.5	95
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	9.1	91
4-Terphenyl-d14	10	9.8	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-43
Client Project ID: BB293
Lab Sample ID: G546-9-1J
Lab Project ID: G546-9

Analyzed By: MRC
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Dilution: 1

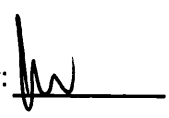
Date Analyzed: 06-25-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	10.42			22
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Metals

Client Sample ID:	USTBB293-43	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	6/8/2004 13:00
Lab Sample ID:	G546-9-1H	Date Received:	6/9/04
Lab Project ID:	G546-9	Matrix:	Water
Batch ID:	3244		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	6/23/04	
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	6/23/04	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Samples Digested by Method 3030C

Reviewed By:

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 44318

Page 1 **of** 1

13 of 13

Client: Engineering + Environment
Address: 824 Gumbranch rd suite S
Address: Jacksonville NC, 28540
Quote #:

Project ID: BB190 + BB293
Contact: Bill massis
Phone: 910-989-3214
Fax: 910-989-3341

Date: 6-8-04
Turnaround: Standard
Job Number: CTO-11
P.O. Number:

Report To: Fred Kozmiski
Rosemont Intern'l & Canada
1955 Rosemont Rd Suite 118
Virginia Beach VA 23452
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: HCl	Ice	Nitric		Analyses: 602	EPH	VPH	6210 D	625+10 TICs	3030C Pb/Cr	MTBE only			Comments: Please specify any special reporting requirements
BB190-47	6-8-04	7:20	GW	X				X									G546-8
BB190-47	6-8-04	7:20	GW		X							X					Sept. project
BB190-47	6-8-04	7:20	GW	X					X								
BB190-47	6-8-04	7:20	GW	X						X							
45TBB293-43	6-8-04	13:00	GW	X							X						
45TBB293-43	6-8-04	13:00	GW		X							X					
45TBB293-43	6-8-04	13:00	GW	X						X							G546-9
45TBB293-43	6-8-04	13:00	GW	X					X								
45TBB293-43	6-8-04	13:00	GW			X							X				

Relinquished By	Date	Time	Received By	Date	Time	Temperature
Bob Sellens	6-8-04	14:00	Jackie Anderson	6/9/04	0945	0.3°

LABORATORY

State Certification Requested

NC _____ SC _____ Other _____

SEE REVERSE FOR TERMS AND CONDITIONS

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Results for Volatiles

by GC 602

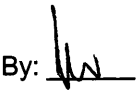
Client Sample ID: Trip Blank
Client Project ID: BB190
Lab Sample ID: G546-8-2A
Lab Project ID: G546-8

Analyzed By: DCS
Date Collected: 06/08/2004 00:00
Date Received: 6/9/04
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.16	1	06/15/2004	
Diisopropyl ether (DIPE)	BQL	1.00	0.18	1	06/15/2004	
Ethylbenzene	BQL	1.00	0.17	1	06/15/2004	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.35	1	06/15/2004	
Toluene	BQL	1.00	0.19	1	06/15/2004	
m/p-Xylene	BQL	2.00	0.35	1	06/15/2004	
o-Xylene	BQL	2.00	0.17	1	06/15/2004	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.2	95.5

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: 

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-9-2A
Lab Project ID: G546-9

Analyzed By: JTF
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	06/11/2004	
Bromobenzene	BQL	0.500	0.199	1	06/11/2004	
Bromochloromethane	BQL	0.500	0.312	1	06/11/2004	
Bromodichloromethane	BQL	0.500	0.195	1	06/11/2004	
Bromoform	BQL	0.500	0.116	1	06/11/2004	
Bromomethane	BQL	0.500	0.398	1	06/11/2004	
n-Butylbenzene	BQL	0.500	0.262	1	06/11/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	06/11/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	06/11/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	06/11/2004	
Chlorobenzene	BQL	0.500	0.178	1	06/11/2004	
Chloroethane	BQL	0.500	0.373	1	06/11/2004	
Chloroform	BQL	0.500	0.195	1	06/11/2004	
Chloromethane	BQL	0.500	0.457	1	06/11/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	06/11/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	06/11/2004	
Dibromochloromethane	BQL	0.500	0.198	1	06/11/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	06/11/2004	
Dibromomethane	BQL	0.500	0.276	1	06/11/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	06/11/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	06/11/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	06/11/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	06/11/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	06/11/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	06/11/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	06/11/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	06/11/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	06/11/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	06/11/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	06/11/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	06/11/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	06/11/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	06/11/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	06/11/2004	
Ethylbenzene	BQL	0.500	0.183	1	06/11/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	06/11/2004	
Isopropylbenzene	BQL	0.500	0.163	1	06/11/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	06/11/2004	
Methylene chloride	BQL	5.00	0.176	1	06/11/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	06/11/2004	
Naphthalene	BQL	0.500	0.259	1	06/11/2004	
n-Propyl benzene	BQL	0.500	0.203	1	06/11/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-9-2A
Lab Project ID: G546-9

Analyzed By: JTF
Date Collected: 06/08/2004 13:00
Date Received: 06/09/2004
Matrix: Water

Styrene	BQL	0.500	0.235	1	06/11/2004
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	06/11/2004
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	06/11/2004
Tetrachloroethene	BQL	0.500	0.219	1	06/11/2004
Toluene	BQL	0.500	0.154	1	06/11/2004
1,2,3-Trichlorobenzene	BQL	0.500	0.207	1	06/11/2004
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	06/11/2004
Trichloroethene	BQL	0.500	0.201	1	06/11/2004
1,1,1-Trichloroethane	BQL	0.500	0.168	1	06/11/2004
1,1,2-Trichloroethane	BQL	0.500	0.231	1	06/11/2004
Trichlorofluoromethane	BQL	0.500	0.481	1	06/11/2004
1,2,3-Trichloropropane	BQL	0.500	0.214	1	06/11/2004
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	06/11/2004
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	06/11/2004
Vinyl chloride	BQL	0.500	0.464	1	06/11/2004
m-,p-Xylene	BQL	1.00	0.388	1	06/11/2004
o-Xylene	BQL	0.500	0.156	1	06/11/2004

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.86	99
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	9.94	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

September 2004

Mr. Fred Kozminski
Engineering & Environment, Inc.
195 South Rosemont Rd.
Suite 118
Virginia Beach VA 23452-4353
Report Number: G546-16

Client Project: BB293

Dear Mr. Kozminski:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

10/14/2004

Laboratory Director Date
J. Patrick Weaver

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-2
Client Project ID: BB293
Lab Sample ID: G546-16-1B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 10:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-2
Client Project ID: BB293
Lab Sample ID: G546-16-1B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 10:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	BQL	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	9.7	97
Toluene-d8	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-1
Client Project ID: BB293
Lab Sample ID: G546-16-2B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 11:05
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-1
Client Project ID: BB293
Lab Sample ID: G546-16-2B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 11:05
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	**0.940**	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	**0.550**	1.00	0.388	1	09/29/2004	J
o-Xylene	**0.180**	0.500	0.156	1	09/29/2004	J

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: ENP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-6
Client Project ID: BB293
Lab Sample ID: G546-16-3B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 11:45
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-6
Client Project ID: BB293
Lab Sample ID: G546-16-3B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 11:45
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	**0.370**	0.500	0.154	1	09/29/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.94	99
1,2-Dichloroethane-d4	10	9.75	98
Toluene-d8	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-3
Client Project ID: BB293
Lab Sample ID: G546-16-4E
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 12:30
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-3
Client Project ID: BB293
Lab Sample ID: G546-16-4E
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 12:30
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	**0.560**	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	9.94	99
Toluene-d8	10	10.9	109

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-4
Client Project ID: BB293
Lab Sample ID: G546-16-5D
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 13:35
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	**0.410**	0.500	0.234	1	09/29/2004	J
tert-Butylbenzene	**0.190**	0.500	0.181	1	09/29/2004	J
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	**0.460**	0.500	0.163	1	09/29/2004	J
4-Isopropyltoluene	**0.570**	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	**1.30**	0.500	0.259	1	09/29/2004	
n-Propyl benzene	**0.480**	0.500	0.203	1	09/29/2004	J

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-4
Client Project ID: BB293
Lab Sample ID: G546-16-5D
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 13:35
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	**0.380**	0.500	0.154	1	09/29/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	9.96	100
Toluene-d8	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-5
Client Project ID: BB293
Lab Sample ID: G546-16-6B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 14:25
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	1.00	0.304	2	09/29/2004	
Bromobenzene	BQL	1.00	0.398	2	09/29/2004	
Bromochloromethane	BQL	1.00	0.624	2	09/29/2004	
Bromodichloromethane	BQL	1.00	0.390	2	09/29/2004	
Bromoform	BQL	1.00	0.232	2	09/29/2004	
Bromomethane	BQL	1.00	0.796	2	09/29/2004	
n-Butylbenzene	BQL	1.00	0.524	2	09/29/2004	
sec-Butylbenzene	**1.42**	1.00	0.468	2	09/29/2004	
tert-Butylbenzene	BQL	1.00	0.362	2	09/29/2004	
Carbon tetrachloride	BQL	1.00	0.300	2	09/29/2004	
Chlorobenzene	BQL	1.00	0.356	2	09/29/2004	
Chloroethane	BQL	1.00	0.746	2	09/29/2004	
Chloroform	BQL	1.00	0.390	2	09/29/2004	
Chloromethane	BQL	1.00	0.914	2	09/29/2004	
2-Chlorotoluene	BQL	1.00	0.408	2	09/29/2004	
4-Chlorotoluene	BQL	1.00	0.396	2	09/29/2004	
Dibromochloromethane	BQL	1.00	0.396	2	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	10.0	3.78	2	09/29/2004	
Dibromomethane	BQL	1.00	0.552	2	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	1.00	0.538	2	09/29/2004	
1,2-Dichlorobenzene	BQL	1.00	0.374	2	09/29/2004	
1,3-Dichlorobenzene	BQL	1.00	0.484	2	09/29/2004	
1,4-Dichlorobenzene	BQL	1.00	0.354	2	09/29/2004	
1,1-Dichloroethane	BQL	1.00	0.402	2	09/29/2004	
1,1-Dichloroethene	BQL	1.00	0.318	2	09/29/2004	
1,2-Dichloroethane	BQL	1.00	0.446	2	09/29/2004	
cis-1,2-Dichloroethene	BQL	1.00	0.322	2	09/29/2004	
trans-1,2-dichloroethene	BQL	1.00	0.460	2	09/29/2004	
1,2-Dichloropropane	BQL	1.00	0.264	2	09/29/2004	
1,3-Dichloropropane	BQL	1.00	0.326	2	09/29/2004	
2,2-Dichloropropane	BQL	1.00	0.526	2	09/29/2004	
1,1-Dichloropropene	BQL	1.00	0.352	2	09/29/2004	
Dichlorodifluoromethane	BQL	10.0	0.918	2	09/29/2004	
Diisopropyl ether (DIPE)	BQL	1.00	0.408	2	09/29/2004	
Ethylbenzene	**4.96**	1.00	0.366	2	09/29/2004	
Hexachlorobutadiene	BQL	1.00	0.812	2	09/29/2004	
Isopropylbenzene	**1.68**	1.00	0.326	2	09/29/2004	
4-Isopropyltoluene	**1.44**	1.00	0.406	2	09/29/2004	
Methylene chloride	BQL	10.0	0.352	2	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.402	2	09/29/2004	
Naphthalene	**59.1**	1.00	0.518	2	09/29/2004	
n-Propyl benzene	**2.56**	1.00	0.406	2	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-5
Client Project ID: BB293
Lab Sample ID: G546-16-6B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 14:25
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	1.00	0.470	2	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	1.00	0.596	2	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.434	2	09/29/2004	
Tetrachloroethene	BQL	1.00	0.438	2	09/29/2004	
Toluene	**0.500**	1.00	0.308	2	09/29/2004	J
1,2,3-Trichlorobenzene	BQL	1.00	0.412	2	09/29/2004	
1,2,4-Trichlorobenzene	BQL	1.00	0.542	2	09/29/2004	
Trichloroethene	BQL	1.00	0.402	2	09/29/2004	
1,1,1-Trichloroethane	BQL	1.00	0.336	2	09/29/2004	
1,1,2-Trichloroethane	BQL	1.00	0.462	2	09/29/2004	
Trichlorofluoromethane	BQL	1.00	0.962	2	09/29/2004	
1,2,3-Trichloropropane	BQL	1.00	0.428	2	09/29/2004	
1,2,4-Trimethylbenzene	**13.6**	1.00	0.410	2	09/29/2004	
1,3,5-Trimethylbenzene	**4.82**	1.00	0.358	2	09/29/2004	
Vinyl chloride	BQL	1.00	0.928	2	09/29/2004	
m-,p-Xylene	**0.780**	2.00	0.776	2	09/29/2004	J
o-Xylene	**2.08**	1.00	0.312	2	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.5	105
1,2-Dichloroethane-d4	10	9.92	99
Toluene-d8	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-16-7A
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-16-7A
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	BQL	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RN

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-47
Client Project ID: BB293
Lab Sample ID: G546-16-8B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 13:10
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-47
Client Project ID: BB293
Lab Sample ID: G546-16-8B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 13:10
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	BQL	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	9.68	97
Toluene-d8	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-16-9B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-16-9B
Lab Project ID: G546-16

Analyzed By: JTF
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	**0.480**	0.500	0.154	1	09/29/2004	J
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.5	105
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3092804D
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/28/2004	
Bromobenzene	BQL	0.500	0.199	1	09/28/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/28/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/28/2004	
Bromoform	BQL	0.500	0.116	1	09/28/2004	
Bromomethane	BQL	0.500	0.398	1	09/28/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/28/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/28/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/28/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/28/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/28/2004	
Chloroethane	BQL	0.500	0.373	1	09/28/2004	
Chloroform	BQL	0.500	0.195	1	09/28/2004	
Chloromethane	BQL	0.500	0.457	1	09/28/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/28/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/28/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/28/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/28/2004	
Dibromomethane	BQL	0.500	0.276	1	09/28/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/28/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/28/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/28/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/28/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/28/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/28/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/28/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/28/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/28/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/28/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/28/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/28/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/28/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/28/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/28/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/28/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/28/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/28/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/28/2004	
Methylene chloride	BQL	5.00	0.176	1	09/28/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/28/2004	
Naphthalene	BQL	0.500	0.259	1	09/28/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/28/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3092804D
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/28/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/28/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/28/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/28/2004	
Toluene	BQL	0.500	0.154	1	09/28/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/28/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/28/2004	
Trichloroethene	BQL	0.500	0.201	1	09/28/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/28/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/28/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/28/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/28/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/28/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/28/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/28/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/28/2004	
o-Xylene	BQL	0.500	0.156	1	09/28/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RM

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3092904B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	09/29/2004	
Bromobenzene	BQL	0.500	0.199	1	09/29/2004	
Bromochloromethane	BQL	0.500	0.312	1	09/29/2004	
Bromodichloromethane	BQL	0.500	0.195	1	09/29/2004	
Bromoform	BQL	0.500	0.116	1	09/29/2004	
Bromomethane	BQL	0.500	0.398	1	09/29/2004	
n-Butylbenzene	BQL	0.500	0.262	1	09/29/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	09/29/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	09/29/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	09/29/2004	
Chlorobenzene	BQL	0.500	0.178	1	09/29/2004	
Chloroethane	BQL	0.500	0.373	1	09/29/2004	
Chloroform	BQL	0.500	0.195	1	09/29/2004	
Chloromethane	BQL	0.500	0.457	1	09/29/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	09/29/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	09/29/2004	
Dibromochloromethane	BQL	0.500	0.198	1	09/29/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	09/29/2004	
Dibromomethane	BQL	0.500	0.276	1	09/29/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	09/29/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	09/29/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	09/29/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	09/29/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	09/29/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	09/29/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	09/29/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	09/29/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	09/29/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	09/29/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	09/29/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	09/29/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	09/29/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	09/29/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	09/29/2004	
Ethylbenzene	BQL	0.500	0.183	1	09/29/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	09/29/2004	
Isopropylbenzene	BQL	0.500	0.163	1	09/29/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	09/29/2004	
Methylene chloride	BQL	5.00	0.176	1	09/29/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	09/29/2004	
Naphthalene	BQL	0.500	0.259	1	09/29/2004	
n-Propyl benzene	BQL	0.500	0.203	1	09/29/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3092904B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	09/29/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	09/29/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	09/29/2004	
Tetrachloroethene	BQL	0.500	0.219	1	09/29/2004	
Toluene	BQL	0.500	0.154	1	09/29/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	09/29/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	09/29/2004	
Trichloroethene	BQL	0.500	0.201	1	09/29/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	09/29/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	09/29/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	09/29/2004	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	09/29/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	09/29/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	09/29/2004	
Vinyl chloride	BQL	0.500	0.464	1	09/29/2004	
m-,p-Xylene	BQL	1.00	0.388	1	09/29/2004	
o-Xylene	BQL	0.500	0.156	1	09/29/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	9.99	100
Toluene-d8	10	11	110 #

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: PNO

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: lcs3092804b
Analyst: JTF
Batch ID: 3092804

Date Analyzed: 28 Sep 2004 10:26 pm
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	5.35	106.9	77.4	123
chlorobenzene	5.0	4.69	93.8	72.5	128
1,1-dichloroethene	5.0	5.33	106.7	71.7	128
toluene	5.0	5.18	103.6	75.9	124
trichloroethene	5.0	5.42	108.4	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: PNP

VO42.072303.1

Results for MS/MSD

by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g546-16-6b x4
Batch ID: 3092804

Date Analyzed: 29 Sep 2004 5:49 am
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	118.9	107.3	61.6	135	10.2	30
chlorobenzene	BQL	5	111.4	99.0	77.2	118	11.8	30
1,1-dichloroethene	BQL	5	117.7	110.3	64.4	130	6.5	30
toluene	BQL	5	120.3	111.4	66.4	128	7.6	30
trichloroethene	BQL	5	122.7	107.5	84.9	136	13.2	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: PNP

VO43.072303.1

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: lcs3092904a
Analyst: JTF
Batch ID: 3092904

Date Analyzed: 29 Sep 2004 10:04 am
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	5.41	108.2	77.4	123
chlorobenzene	5.0	5.10	102.0	72.5	128
1,1-dichloroethene	5.0	5.43	108.5	71.7	128
toluene	5.0	5.40	108.0	75.9	124
trichloroethene	5.0	5.61	112.1	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: RW

VO42.072303.1

Results for MS/MSD

by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g162-157-13d x50
Batch ID: 3092904

Date Analyzed: 29 Sep 2004 6:00 pm
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	99.9	105.1	61.6	135	5.0	30
chlorobenzene	BQL	5	100.7	107.2	77.2	118	6.2	30
1,1-dichloroethene	BQL	5	98.2	99.6	64.4	130	1.3	30
toluene	BQL	5	99.2	104.1	66.4	128	4.8	30
trichloroethene	BQL	5	103.1	105.8	84.9	136	2.6	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: PNP

VO43.072303.1

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 09/28/04
File: 0928324.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	10.28	102.8	60.0	140
bromobenzene	10	10.71	107.1	60.0	140
bromochloromethane	10	12.07	120.7	60.0	140
bromodichloromethane	10	10.94	109.4	60.0	140
bromoform	10	10.99	109.9	60.0	140
bromomethane	10	11.35	113.5	60.0	140
n-butylbenzene	10	8.37	83.7	60.0	140
sec-butylbenzene	10	9.03	90.3	60.0	140
tert-butylbenzene	10	9.12	91.2	60.0	140
carbon tetrachloride	10	10.58	105.8	60.0	140
chlorobenzene	10	9.82	98.2	60.0	140
chloroethane	10	11.95	119.5	60.0	140
chloroform	10	9.78	97.8	60.0	140
chloromethane	10	10.90	109.0	60.0	140
2-chlorotoluene	10	9.65	96.5	60.0	140
4-chlorotoluene	10	8.68	86.8	60.0	140
dibromochloromethane	10	9.91	99.1	60.0	140
1,2-dibromomethane	10	10.38	103.8	60.0	140
dibromomethane	10	10.75	107.5	60.0	140
1,2-dichlorobenzene	10	9.77	97.7	60.0	140
1,3-dichlorobenzene	10	9.58	95.8	60.0	140
1,4-dichlorobenzene	10	9.40	94.0	60.0	140
dichlorodifluoromethane	10	10.47	104.7	60.0	140
1,1-dichloroethane	10	10.39	103.9	60.0	140
1,2-dichloroethane	10	10.53	105.3	60.0	140
1,1-dichloroethene	10	10.14	101.4	60.0	140
cis-1,2-dichloroethene	10	10.58	105.8	60.0	140
trans-1,2-dichloroethene	10	10.95	109.5	60.0	140
1,2-dichloropropane	10	10.81	108.1	60.0	140
1,3-dichloropropane	10	9.54	95.4	60.0	140
2,2-dichloropropane	10	8.44	84.4	60.0	140
1,1-dichloropropene	10	9.82	98.2	60.0	140
cis-1,3-dichloropropene	10	10.01	100.1	60.0	140
trans-1,3-dichloropropene	10	10.45	104.5	60.0	140
diisopropyl ether	10	9.02	90.2	60.0	140
ethylbenzene	10	8.64	86.4	60.0	140
hexachlorobutadiene	10	9.22	92.2	60.0	140
isopropylbenzene	10	8.87	88.7	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 09/28/04
File: 0928324.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	10	8.96	89.6	60.0	140
methyl-tert-butyl ether	10	9.58	95.8	60.0	140
methylene chloride	10	11.04	110.4	60.0	140
naphthalene	10	9.64	96.4	60.0	140
n-propyl benzene	10	8.57	85.7	60.0	140
styrene	10	8.28	82.8	60.0	140
1,1,1,2-tetrachloroethane	10	9.87	98.7	60.0	140
1,1,2,2-tetrachloroethane	10	10.58	105.8	60.0	140
tetrachloroethene	10	10.01	100.1	60.0	140
toluene	10	10.26	102.6	60.0	140
1,2,3-trichlorobenzene	10	9.77	97.7	60.0	140
1,2,4-trichlorobenzene	10	10.14	101.4	60.0	140
1,1,1-trichloroethane	10	10.15	101.5	60.0	140
1,1,2-trichloroethane	10	10.39	103.9	60.0	140
trichloroethene	10	10.78	107.8	60.0	140
trichlorofluoromethane	10	10.98	109.8	60.0	140
1,2,3-trichloropropane	10	9.35	93.5	60.0	140
1,2,4-trimethylbenzene	10	8.87	88.7	60.0	140
1,3,5-trimethylbenzene	10	8.93	89.3	60.0	140
vinyl chloride	10	11.09	110.9	60.0	140
m/p-xylene	20	18.25	91.3	60.0	140
o-xylene	10	9.05	90.5	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: PNP

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 09/29/04
File: 0929303.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	10.67	106.7	60.0	140
bromobenzene	10	10.64	106.4	60.0	140
bromochloromethane	10	11.69	116.9	60.0	140
bromodichloromethane	10	11.28	112.8	60.0	140
bromoform	10	11.03	110.3	60.0	140
bromomethane	10	12.11	121.1	60.0	140
n-butylbenzene	10	9.25	92.5	60.0	140
sec-butylbenzene	10	9.59	95.9	60.0	140
tert-butylbenzene	10	9.70	97.0	60.0	140
carbon tetrachloride	10	10.92	109.2	60.0	140
chlorobenzene	10	9.90	99.0	60.0	140
chloroethane	10	11.87	118.7	60.0	140
chloroform	10	10.20	102.0	60.0	140
chloromethane	10	10.83	108.3	60.0	140
2-chlorotoluene	10	9.68	96.8	60.0	140
4-chlorotoluene	10	9.29	92.9	60.0	140
dibromochloromethane	10	9.95	99.5	60.0	140
1,2-dibromomethane	10	10.42	104.2	60.0	140
dibromomethane	10	10.98	109.8	60.0	140
1,2-dichlorobenzene	10	9.76	97.6	60.0	140
1,3-dichlorobenzene	10	9.87	98.7	60.0	140
1,4-dichlorobenzene	10	9.82	98.2	60.0	140
dichlorodifluoromethane	10	10.52	105.2	60.0	140
1,1-dichloroethane	10	10.63	106.3	60.0	140
1,2-dichloroethane	10	10.40	104.0	60.0	140
1,1-dichloroethene	10	10.40	104.0	60.0	140
cis-1,2-dichloroethene	10	11.00	110.0	60.0	140
trans-1,2-dichloroethene	10	11.26	112.6	60.0	140
1,2-dichloropropane	10	11.33	113.3	60.0	140
1,3-dichloropropane	10	9.76	97.6	60.0	140
2,2-dichloropropane	10	10.64	106.4	60.0	140
1,1-dichloropropene	10	10.33	103.3	60.0	140
cis-1,3-dichloropropene	10	10.43	104.3	60.0	140
trans-1,3-dichloropropene	10	10.71	107.1	60.0	140
diisopropyl ether	10	9.37	93.7	60.0	140
ethylbenzene	10	9.04	90.4	60.0	140
hexachlorobutadiene	10	10.91	109.1	60.0	140
isopropylbenzene	10	9.37	93.7	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 09/29/04
File: 0929303.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	10	9.59	95.9	60.0	140
methyl-tert-butyl ether	10	9.34	93.4	60.0	140
methylene chloride	10	11.19	111.9	60.0	140
naphthalene	10	9.61	96.1	60.0	140
n-propyl benzene	10	9.26	92.6	60.0	140
styrene	10	8.80	88.0	60.0	140
1,1,1,2-tetrachloroethane	10	9.79	97.9	60.0	140
1,1,2,2-tetrachloroethane	10	10.35	103.5	60.0	140
tetrachloroethene	10	10.33	103.3	60.0	140
toluene	10	10.50	105.0	60.0	140
1,2,3-trichlorobenzene	10	10.09	100.9	60.0	140
1,2,4-trichlorobenzene	10	10.01	100.1	60.0	140
1,1,1-trichloroethane	10	10.36	103.6	60.0	140
1,1,2-trichloroethane	10	9.84	98.4	60.0	140
trichloroethene	10	11.12	111.2	60.0	140
trichlorofluoromethane	10	11.10	111.0	60.0	140
1,2,3-trichloropropane	10	9.72	97.2	60.0	140
1,2,4-trimethylbenzene	10	9.34	93.4	60.0	140
1,3,5-trimethylbenzene	10	9.58	95.8	60.0	140
vinyl chloride	10	11.72	117.2	60.0	140
m/p-xylene	20	18.99	95.0	60.0	140
o-xylene	10	9.70	97.0	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: PNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-2
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	92
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-1d

Reviewed By: RNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	86
Surrogate % Recovery - FID	99

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-2d

Reviewed By: BNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-6
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	93
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-3d

Reviewed By: RNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-3
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-4d

Reviewed By: RNV

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-4
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	95
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-5e

Reviewed By: PNV

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-5
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-6d

Reviewed By: RNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-47
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-8d

Reviewed By: BNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	09/30/04
Date Analyzed	09/30/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	98
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-16-9d

Reviewed By: RNV

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 08/27/04 PID Initial Calibration Date: 08/27/04

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	5.5	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	17.3	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	2.8	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 09/30/04

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	7.2
C_9-C_{12} Aliphatics	500	50	21.3
C_9-C_{10} Aromatics	500	50	5.2

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-2
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/05/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-1K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-1
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/05/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	88

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-2K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-6
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/06/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-3K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-3
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/06/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	83
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-4K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-4
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/05/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-5K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-5
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/07/04
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	200 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	200 (µg/L)
Aliphatic Surrogate % Recovery	67
Aromatic Surrogate % Recovery	75
Fractionation Surrogate 1 % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-16-6K

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-47
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/05/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	83
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-8L

Reviewed By: RNP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Date Collected	09/23/04
Date Received	09/24/04
Date Extracted	10/01/04
Date Analyzed	10/05/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (µg/L)
C_{19}-C_{36} Aliphatics*	< 100 (µg/L)
C_{11}-C_{22} Aromatics*	< 100 (µg/L)
Aliphatic Surrogate % Recovery	82
Aromatic Surrogate % Recovery	84

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-16-9L

Reviewed By: RNP

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 08/09/04

Calibration Ranges and Limits

Range	MDL (µg/L)		ML (µg/L)		RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	0.1	0.8	0.3	2.6	100	10
C_{19}-C_{36} Aliphatics	0.1	1.6	0.3	5	100	10
C_{11}-C_{22} Aromatics	0.2	2.1	0.6	6.7	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	9.70	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	8.6	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/07/04

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-4.4
C_{19}-C_{36} Aliphatics	160	-20.5
C_{11}-C_{22} Aromatics	340	-17.3

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-2
Client Project ID: BB293
Lab Sample ID: G546-16-1J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 10:00
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-2
Client Project ID: BB293
Lab Sample ID: G546-16-1J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 10:00
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	8.3	83
4-Terphenyl-d14	10	9.8	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-2
Client Project ID: BB293
Lab Sample ID: G546-16-1J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 10:00
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			190
2	Lab Added Solvent	3.73			25.1
3	Lab Added Standard	12.14			6.6
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-1
Client Project ID: BB293
Lab Sample ID: G546-16-2J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:05
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-1
Client Project ID: BB293
Lab Sample ID: G546-16-2J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:05
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	9	90
4-Terphenyl-d14	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-1
Client Project ID: BB293
Lab Sample ID: G546-16-2J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:05
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			200
2	Lab Added Solvent	3.73			25.8
3	Lab Added Standard	12.14			7.98
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-6
Client Project ID: BB293
Lab Sample ID: G546-16-3J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:45
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-6
Client Project ID: BB293
Lab Sample ID: G546-16-3J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:45
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8	80
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	8.6	86
Phenol-d6	10	8.2	82
2,4,6-Tribromophenol	10	9.2	92
4-Terphenyl-d14	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RHV

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-6
Client Project ID: BB293
Lab Sample ID: G546-16-3J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 11:45
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			204
2	Unknown	19.43			176
3	Unknown	20.89			92.2
4	Unknown	18.11			44.7
5	Lab Added Solvent	3.73			27.2
6	Unknown	19.97			17.2
7	Unknown	23.02			12.8
8	Lab Added Standard	12.14			8.85
9	Unknown	16.66			5.49
10	Solvent Stabilizer	6.03			5.48

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNC

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-3
Client Project ID: BB293
Lab Sample ID: G546-16-4J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 12:30
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-3
Client Project ID: BB293
Lab Sample ID: G546-16-4J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 12:30
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.8	78
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	8.5	85
4-Terphenyl-d14	10	10.4	104

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: BNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-3
Client Project ID: BB293
Lab Sample ID: G546-16-4J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 12:30
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			196
2	Lab Added Solvent	3.74	000108-88-3	91	25.6
3	Lab Added Standard	12.14			7.23
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-4
Client Project ID: BB293
Lab Sample ID: G546-16-5J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 13:35
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-4
Client Project ID: BB293
Lab Sample ID: G546-16-5J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 13:35
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.7	77
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	8.5	85
4-Terphenyl-d14	10	9.9	99

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-4
Client Project ID: BB293
Lab Sample ID: G546-16-5J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 13:35
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			204
2	Lab Added Solvent	3.73	000108-88-3	91	24.4
3	Lab Added Standard	12.14			8.64
4	Solvent Stabilizer	6.03			4.4
5	Ethyldimethylbenzene, Isomer of	8.39			4.36
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-5
Client Project ID: BB293
Lab Sample ID: G546-16-6J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 14:25
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-5
Client Project ID: BB293
Lab Sample ID: G546-16-6J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 14:25
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	**33.8**	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.6	86
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	9.5	95
4-Terphenyl-d14	10	10.2	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-5
Client Project ID: BB293
Lab Sample ID: G546-16-6J
Lab Project ID: G546-16

Dilution: 1

Analyzed By: MRC
Date Collected: 09/23/2004 14:25
Date Received: 09/24/2004
Matrix: Water

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			165
2	Sulfur, mol. (S8)	16.00	010544-50-0	91	24.7
3	Unknown	8.39			23.5
4	Lab Added Solvent	3.73			22.4
5	Ethylmethylbenzene, Isomer of	6.94			13.5
6	Unknown	10.77			10.6
7	Trimethylbenzene, Isomer of	6.61			10.3
8	Unknown	10.42			10.1
9	Unknown	12.76			9
10	Lab Added Standard	12.14			8.58

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-47
Client Project ID: BB293
Lab Sample ID: G546-16-8J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 13:10
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-47
Client Project ID: BB293
Lab Sample ID: G546-16-8J
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 13:10
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	8.8	88
4-Terphenyl-d14	10	10.6	106

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-47
Client Project ID: BB293
Lab Sample ID: G546-16-8J
Lab Project ID: G546-16

Dilution: 1

Analyzed By: MRC
Date Collected: 09/23/2004 13:10
Date Received: 09/24/2004
Matrix: Water

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			196
2	Lab Added Solvent	3.73			26.9
3	Lab Added Standard	12.14			7.07
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNV

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-16-9K
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-16-9K
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Date Extracted: 09/30/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8	80
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	8.5	85
4-Terphenyl-d14	10	9.8	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-16-9K
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected: 09/23/2004 00:00
Date Received: 09/24/2004
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			196
2	Lab Added Solvent	3.74			27.6
3	Solvent Stabilizer	6.03			9.69
4	Lab Added Standard	12.14			6.98
5	Unknown	4.91			4.2
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RJV

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB1700
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 09/30/2004
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	10/08/2004	
Acenaphthylene	BQL	10.0	1.12	1	10/08/2004	
Anthracene	BQL	10.0	1.75	1	10/08/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	10/08/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	10/08/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	10/08/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	10/08/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	10/08/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	10/08/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	10/08/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	10/08/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	10/08/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	10/08/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	10/08/2004	
2-Chlorophenol	BQL	10.0	4.22	1	10/08/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	10/08/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	10/08/2004	
Chrysene	BQL	10.0	1.11	1	10/08/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	10/08/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	10/08/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	10/08/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	10/08/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	10/08/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	10/08/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	10/08/2004	
Diethylphthalate	BQL	10.0	1.48	1	10/08/2004	
Dimethylphthalate	BQL	10.0	1.04	1	10/08/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	10/08/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	10/08/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	10/08/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	10/08/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	10/08/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	10/08/2004	
Fluoranthene	BQL	10.0	1.41	1	10/08/2004	
Fluorene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	10/08/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	10/08/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	10/08/2004	
Hexachloroethane	BQL	10.0	1.58	1	10/08/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	10/08/2004	
Isophorone	BQL	10.0	1.27	1	10/08/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB1700
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 09/30/2004
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	10/08/2004	
Nitrobenzene	BQL	10.0	1.32	1	10/08/2004	
2-Nitrophenol	BQL	10.0	3.52	1	10/08/2004	
4-Nitrophenol	BQL	50.0	3.17	1	10/08/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	10/08/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	10/08/2004	
Pentachlorophenol	BQL	50.0	2.83	1	10/08/2004	
Phenanthrene	BQL	10.0	1.38	1	10/08/2004	
Phenol	BQL	10.0	3.38	1	10/08/2004	
Pyrene	BQL	10.0	2.08	1	10/08/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	10/08/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	10/08/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	9.2	92
Nitrobenzene-d5	10	9.2	92
Phenol-d6	10	9.4	94
2,4,6-Tribromophenol	10	9.4	94
4-Terphenyl-d14	10	10.5	105

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: Method Blank
Client Project ID: BB293
Lab Sample ID: PB1700
Lab Project ID: G546-16

Analyzed By: MRC
Date Collected:
Date Received:
Matrix: Water

Dilution: 1

Date Analyzed: 10-08-2004

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Lab Added Standard	11.73			187
2	Solvent Stabilizer	4.90			6.85
3	Lab Added Standard	12.14			5.66
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: RNP

Results For Water Laboratory Control Standard (LCS)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-LCS-1700
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 10/08/04
Analyzed By: MRC

	Spiked	LCS	LCS	LIMITS	
	ng	ng	% Rec.	LOWER	UPPER
Acenaphthylene	10	10.23	102	75	137
4-Chloro-3-methylphenol	10	7.81	78	58	110
2-Chlorophenol	10	6.93	69	49	102
1,4-Dichlorobenzene	10	4.41	44	10	109
2,4-Dinitrotoluene	10	8.49	85	61	116
N-Nitrosodi-n-propylamine	10	8.89	89	48	126
4-Nitrophenol	10	8.77	88	27	141
Pentachlorophenol	10	8.19	82	33	96
Phenol	10	7.16	72	42	112
Pyrene	10	8.36	84	58	124
1,2,4-Trichlorobenzene	10	6.42	64	42	104

Comments:
Concentrations are on column amounts.

Flags:
* = Out of limits.
NA = Not applicable.

Reviewed By: RNP

Results For Water Matrix Spike / Matrix Spike Duplicate (MS/MSD)
by GCMS

Client Sample ID: Batch QC
Client Project ID: BB293
Lab Sample ID: (W-MS-1700)
Lab Project ID: G546-16
Matrix: Water

Date Collected: 09/23/04
Date Received: 09/24/04
Date Analyzed: 10/08/04
Analyzed By: MRC
Dilution: 1

					Limits			Limit
	Sample ng	Spiked ng	MS %	MSD %	Lower %	Upper %	RPD %	Max. %
Acenaphthylene	BQL	10	99	95	87	132	4.0	30
4-Chloro-3-methylphenol	BQL	10	80	83	65	109	3.8	30
2-Chlorophenol	BQL	10	77	80	52	97	3.3	30
1,4-Dichlorobenzene	BQL	10	53	60	40	83	12.0	30
2,4-Dinitrotoluene	BQL	10	89	83	70	114	7.5	30
N-Nitrosodi-n-propylamine	BQL	10	92	95	70	103	2.7	30
4-Nitrophenol	BQL	10	87	92	40	155	4.8	30
Pentachlorophenol	BQL	10	80	80	40	109	0.4	30
Phenol	BQL	10	77	79	52	100	2.1	30
Pyrene	BQL	10	68	75	64	121	9.9	30
1,2,4-Trichlorobenzene	BQL	10	70	72	52	102	3.4	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: RNP

Results for Metals

Client Sample ID:	USTBB293-2	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 10:00
Lab Sample ID:	G546-16-1	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.00256**	0.0100	0.000310	1	MG/L	6010B	9/25/04	JB
Lead	**0.00906**	0.0100	0.00121	1	MG/L	6010B	9/25/04	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: BNV

Results for Metals

Client Sample ID:	USTBB293-1	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 11:05
Lab Sample ID:	G546-16-2	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.00198**	0.0100	0.000310	1	MG/L	6010B	9/25/04	JB
Lead	**0.0154**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: BNP

Results for Metals

Client Sample ID:	USTBB293-6	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 11:45
Lab Sample ID:	G546-16-3	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.00965**	0.0100	0.00121	1	MG/L	6010B	9/25/04	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: RNP

Results for Metals

Client Sample ID:	USTBB293-3	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 12:30
Lab Sample ID:	G546-16-4	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.0116**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: RNV

Results for Metals

Client Sample ID:	USTBB293-4	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 13:35
Lab Sample ID:	G546-16-5	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.0110**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: _____

Results for Metals

Client Sample ID:	USTBB293-5	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 14:25
Lab Sample ID:	G546-16-6	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.0269**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: RNP

Results for Metals

Client Sample ID:	USTBB293-47	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 13:10
Lab Sample ID:	G546-16-8	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.0128**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: RVP

Results for Metals

Client Sample ID:	USTBB293-DUP	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	9/23/2004 00:00
Lab Sample ID:	G546-16-9	Date Received:	9/24/04
Lab Project ID:	G546-16	Matrix:	WATER
Batch ID:	1656		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	9/25/04	B
Lead	**0.0125**	0.0100	0.00121	1	MG/L	6010B	9/25/04	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.
B= Analyte Detected in Blank.

Reviewed By: PNP

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb1656	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	1656	Solids	100.00
Report Basis:	Dry		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000450**	0.0100	0.000310	1	MG/L	6010B	9/25/04	J
Lead	**0.00350**	0.0100	0.00121	1	MG/L	6010B	9/25/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: PNP

Paradigm Analytical
Results for LCS/LCD

Batch ID: 1656
Matrix: Water
Units: mg/L

METAL	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.40	0.373	93.2	0.382	95.6	80	120	2.46	20
Lead	0.40	0.375	93.7	0.380	95.0	80	120	1.42	20

Comments:

* = Out of limits.

Reviewed By: RNP

Results for METALS MS/MSD

Lab ID: G353-77-2
MS Lab ID: G353-77-2
MSD Lab ID: G353-77-2
ICP Batch: 1656
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	BQL	0.400	0.384	96.0	0.400	0.379	94.7	75	125	1.31	20
Lead	0.0286	0.400	0.396	91.9	0.400	0.394	91.4	75	125	0.506	20

Reviewed By: RNV

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 42293

Page _____ **of** _____

Client: [redacted] Engineering + Environmental
Address: 824 Gumbranch rd
Address: Suite 5, Jacksonville NC
Quote #: _____

Project ID: BB293
Contact: Bill Morris
Phone: 910-989-3214
Fax: 910-989-3214

Date: _____
Turnaround: Standard
Job Number: _____
P.O. Number: _____

Report To: _____
Invoice To: _____

Sample ID	Date	Time	Matrix	Preservatives: HCl	Nitric	Ice		Analyses: 6210D	8260C	VPH	EPH	625-10 TICs					Comments: Please specify any special reporting requirements
USTBB293-2	9-23-04	10:00	GW	X	X	X		3	1	2	1	1					
USTBB293-1	9-23-04	11:05	GW	X	X	X		3	1	2	1	1					G546-16
USTBB293-6	9-23-04	11:45	GW	X	X	X		3	1	2	1	1					
USTBB293-3	9-23-04	12:30	GW	X	X	X		3	1	2	1	1					
USTBB293-4	9-23-04	13:35	GW	X	X	X		3	1	2	1	1					
USTBB293-5	9-23-04	14:25	GW	X	X	X		3	1	2	1	1					
trip blank	9-23-04							3									
USTBB293-47	9-23-04	13:10	GW	X	X	X		3	1	2	1	1					
USTBB293-DUP			W	✓	✓	✓		✓	✓	✓	✓	✓					Dup colleded, but not on COC at receipt. Added per Bill Morris. 9/24/04

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Bob Sellers			Julie Johnson	9/24/04	1020	4.1°C	NC _____ SC _____ Other _____
Bob Sellers	9-23-04	15:30				3.6°C	SEE REVERSE FOR TERMS AND CONDITIONS
						2.3°C	

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

December 2004

Mr. Fred Kozminski
Engineering & Environment, Inc.
195 South Rosemont Rd.
Suite 118
Virginia Beach VA 23452-4353
Report Number: G546-18

Client Project: BB293

Dear Mr. Kozminski:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

1/11/05

Laboratory Director Date
J. Patrick Weaver

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW2
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-1e

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW5
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	180 (µg/L)
C_9-C_{10} Aromatics**	300 (µg/L)
Surrogate % Recovery - PID	130
Surrogate % Recovery - FID	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-2e

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW4
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-3e

Reviewed By: MMC

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW3
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-4e

Reviewed By: mc

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-5e

Reviewed By: mc

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW6
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-6e

Reviewed By: mc

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-BB47
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	96

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-7e

Reviewed By: mc

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/12/04
Date Analyzed	12/12/04
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-18-8e

Reviewed By: mc

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/09/04 PID Initial Calibration Date: 12/09/04

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	4.0	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	14.8	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	7.4	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 12/12/04

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	1.9
C_9-C_{12} Aliphatics	500	50	21.3
C_9-C_{10} Aromatics	500	50	4.3

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW2
Sample Matrix	Water
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	58
Aromatic Surrogate % Recovery	60

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-18-1L

Reviewed By: MC

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW5
Sample Matrix	Water
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/21/04
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	210 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	530 (ug/L)
Aliphatic Surrogate % Recovery	60
Aromatic Surrogate % Recovery	78
Fractionation Surrogate 1 % Recovery	63

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-18-2N

Reviewed By: mc

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW4
Sample Matrix	Water
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	69
Aromatic Surrogate % Recovery	66

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-18-3L

Reviewed By: mc

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW3
Sample Matrix	Water
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	68
Aromatic Surrogate % Recovery	62

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-18-4L

Reviewed By: MC

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW1
Sample Matrix	Water
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	74
Aromatic Surrogate % Recovery	65

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-18-5L

Reviewed By: MC

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW6
Sample Matrix	Water
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/20/04
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	90
Aromatic Surrogate % Recovery	75
Fractionation Surrogate 1 % Recovery	61

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-18-6L

Reviewed By: mv

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-BB47
Sample Matrix	Water
Date Collected	12/03/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/15/04
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	68

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-18-7L

Reviewed By: MC

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Date Collected	12/02/04
Date Received	12/03/04
Date Extracted	12/13/04
Date Analyzed	12/20/04
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	80
Aromatic Surrogate % Recovery	87
Fractionation Surrogate 1 % Recovery	67

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-18-8L

Reviewed By: mL

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 12/15/04

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	4.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	8.3	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 12/15/04

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	2.6
C_{19}-C_{36} Aliphatics	160	11.3
C_{11}-C_{22} Aromatics	340	1.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 12/15/04

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	4.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	8.3	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	5.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 12/20/04

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	0.7
C_{19}-C_{36} Aliphatics	160	-7.5
C_{11}-C_{22} Aromatics	340	11.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 12/15/04

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	4.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	8.3	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	5.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 12/21/04

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	0.7
C_{19}-C_{36} Aliphatics	160	-3.0
C_{11}-C_{22} Aromatics	340	3.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW2
Client Project ID: BB293
Lab Sample ID: G546-18-1A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 12:35
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	BQL	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	BQL	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	BQL	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW2
Client Project ID: BB293
Lab Sample ID: G546-18-1A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 12:35
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	BQL	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	BQL	1.00	0.388	1	12/09/2004	
o-Xylene	BQL	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	10.5	105
Toluene-d8	10	9.96	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW5
Client Project ID: BB293
Lab Sample ID: G546-18-2A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 09:40
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	4.00	1.22	8	12/09/2004	
Bromobenzene	BQL	4.00	1.59	8	12/09/2004	
Bromochloromethane	BQL	4.00	2.50	8	12/09/2004	
Bromodichloromethane	BQL	4.00	1.56	8	12/09/2004	
Bromoform	BQL	4.00	0.928	8	12/09/2004	
Bromomethane	BQL	4.00	3.18	8	12/09/2004	
n-Butylbenzene	BQL	4.00	2.10	8	12/09/2004	
sec-Butylbenzene	**10.1**	4.00	1.87	8	12/09/2004	
tert-Butylbenzene	**6.40**	4.00	1.45	8	12/09/2004	
Carbon tetrachloride	BQL	4.00	1.20	8	12/09/2004	
Chlorobenzene	BQL	4.00	1.42	8	12/09/2004	
Chloroethane	BQL	4.00	2.98	8	12/09/2004	
Chloroform	BQL	4.00	1.56	8	12/09/2004	
Chloromethane	BQL	4.00	3.66	8	12/09/2004	
2-Chlorotoluene	BQL	4.00	1.63	8	12/09/2004	
4-Chlorotoluene	BQL	4.00	1.58	8	12/09/2004	
Dibromochloromethane	BQL	4.00	1.58	8	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	40.0	15.1	8	12/09/2004	
Dibromomethane	BQL	4.00	2.21	8	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	4.00	2.15	8	12/09/2004	
1,2-Dichlorobenzene	BQL	4.00	1.50	8	12/09/2004	
1,3-Dichlorobenzene	BQL	4.00	1.94	8	12/09/2004	
1,4-Dichlorobenzene	BQL	4.00	1.42	8	12/09/2004	
1,1-Dichloroethane	BQL	4.00	1.61	8	12/09/2004	
1,1-Dichloroethene	BQL	4.00	1.27	8	12/09/2004	
1,2-Dichloroethane	BQL	4.00	1.78	8	12/09/2004	
cis-1,2-Dichloroethene	BQL	4.00	1.29	8	12/09/2004	
trans-1,2-dichloroethene	BQL	4.00	1.84	8	12/09/2004	
1,2-Dichloropropane	BQL	4.00	1.06	8	12/09/2004	
1,3-Dichloropropane	BQL	4.00	1.30	8	12/09/2004	
2,2-Dichloropropane	BQL	4.00	2.10	8	12/09/2004	
1,1-Dichloropropene	BQL	4.00	1.41	8	12/09/2004	
Dichlorodifluoromethane	BQL	40.0	3.67	8	12/09/2004	
Diisopropyl ether (DIPE)	BQL	4.00	1.63	8	12/09/2004	
Ethylbenzene	**19.5**	4.00	1.46	8	12/09/2004	
Hexachlorobutadiene	BQL	4.00	3.25	8	12/09/2004	
Isopropylbenzene	**10.1**	4.00	1.30	8	12/09/2004	
4-Isopropyltoluene	**10.4**	4.00	1.62	8	12/09/2004	
Methylene chloride	BQL	40.0	1.41	8	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	4.00	1.61	8	12/09/2004	
Naphthalene	**149**	4.00	2.07	8	12/09/2004	
n-Propyl benzene	**13.3**	4.00	1.62	8	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW5
Client Project ID: BB293
Lab Sample ID: G546-18-2A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 09:40
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	4.00	1.88	8	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	4.00	2.38	8	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	4.00	1.74	8	12/09/2004	
Tetrachloroethene	BQL	4.00	1.75	8	12/09/2004	
Toluene	**4.00**	4.00	1.23	8	12/09/2004	
1,2,3-Trichlorobenzene	BQL	4.00	1.65	8	12/09/2004	
1,2,4-Trichlorobenzene	BQL	4.00	2.17	8	12/09/2004	
Trichloroethene	BQL	4.00	1.61	8	12/09/2004	
1,1,1-Trichloroethane	BQL	4.00	1.34	8	12/09/2004	
1,1,2-Trichloroethane	BQL	4.00	1.85	8	12/09/2004	
Trichlorofluoromethane	BQL	4.00	3.85	8	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	1.71	8	12/09/2004	
1,2,4-Trimethylbenzene	**52.7**	4.00	1.64	8	12/09/2004	
1,3,5-Trimethylbenzene	**19.2**	4.00	1.43	8	12/09/2004	
Vinyl chloride	BQL	4.00	3.71	8	12/09/2004	
m-,p-Xylene	**8.88**	8.00	3.10	8	12/09/2004	
o-Xylene	**14.4**	4.00	1.25	8	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.6	106
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW4
Client Project ID: BB293
Lab Sample ID: G546-18-3A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 08:45
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	**0.890**	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	**0.760**	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	BQL	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	BQL	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	**0.880**	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	**1.49**	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW4
Client Project ID: BB293
Lab Sample ID: G546-18-3A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 08:45
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	**0.700**	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	**0.970**	1.00	0.388	1	12/09/2004	J
o-Xylene	BQL	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	10.6	106
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW3
Client Project ID: BB293
Lab Sample ID: G546-18-4A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 15:45
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	**0.900**	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	BQL	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	**0.720**	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	**0.840**	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	**1.44**	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW3
Client Project ID: BB293
Lab Sample ID: G546-18-4A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 15:45
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	**0.620**	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	**0.950**	1.00	0.388	1	12/09/2004	J
o-Xylene	BQL	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	9.98	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW1
Client Project ID: BB293
Lab Sample ID: G546-18-5A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 14:15
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	**0.670**	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	BQL	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	BQL	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW1
Client Project ID: BB293
Lab Sample ID: G546-18-5A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 14:15
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	**0.860**	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	**0.760**	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	**1.23**	1.00	0.388	1	12/09/2004	
o-Xylene	**0.600**	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.6	106
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	9.97	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW6
Client Project ID: BB293
Lab Sample ID: G546-18-6A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 14:50
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	**1.01**	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	**1.25**	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	**1.09**	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	**1.46**	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW6
Client Project ID: BB293
Lab Sample ID: G546-18-6A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 14:50
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	**0.680**	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	**1.05**	1.00	0.388	1	12/09/2004	
o-Xylene	**0.550**	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.7	107
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	9.92	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: mc

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-18-7A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 08:50
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	BQL	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	BQL	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	BQL	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-18-7A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/03/2004 08:50
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	BQL	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	BQL	1.00	0.388	1	12/09/2004	
o-Xylene	BQL	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.6	106
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: mc

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-18-8A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 00:00
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	**1.01**	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	**1.30**	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	**1.09**	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	**1.47**	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-18-8A
Lab Project ID: G546-18

Analyzed By: JTF
Date Collected: 12/02/2004 00:00
Date Received: 12/03/2004
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	**0.620**	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	**1.03**	1.00	0.388	1	12/09/2004	
o-Xylene	**0.550**	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.6	106
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1120904B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	12/09/2004	
Bromobenzene	BQL	0.500	0.199	1	12/09/2004	
Bromochloromethane	BQL	0.500	0.312	1	12/09/2004	
Bromodichloromethane	BQL	0.500	0.195	1	12/09/2004	
Bromoform	BQL	0.500	0.116	1	12/09/2004	
Bromomethane	BQL	0.500	0.398	1	12/09/2004	
n-Butylbenzene	BQL	0.500	0.262	1	12/09/2004	
sec-Butylbenzene	BQL	0.500	0.234	1	12/09/2004	
tert-Butylbenzene	BQL	0.500	0.181	1	12/09/2004	
Carbon tetrachloride	BQL	0.500	0.150	1	12/09/2004	
Chlorobenzene	BQL	0.500	0.178	1	12/09/2004	
Chloroethane	BQL	0.500	0.373	1	12/09/2004	
Chloroform	BQL	0.500	0.195	1	12/09/2004	
Chloromethane	BQL	0.500	0.457	1	12/09/2004	
2-Chlorotoluene	BQL	0.500	0.204	1	12/09/2004	
4-Chlorotoluene	BQL	0.500	0.198	1	12/09/2004	
Dibromochloromethane	BQL	0.500	0.198	1	12/09/2004	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/09/2004	
Dibromomethane	BQL	0.500	0.276	1	12/09/2004	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/09/2004	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/09/2004	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/09/2004	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/09/2004	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/09/2004	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/09/2004	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/09/2004	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/09/2004	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/09/2004	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/09/2004	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/09/2004	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/09/2004	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/09/2004	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/09/2004	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/09/2004	
Ethylbenzene	BQL	0.500	0.183	1	12/09/2004	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/09/2004	
Isopropylbenzene	BQL	0.500	0.163	1	12/09/2004	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/09/2004	
Methylene chloride	BQL	5.00	0.176	1	12/09/2004	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/09/2004	
Naphthalene	BQL	0.500	0.259	1	12/09/2004	
n-Propyl benzene	BQL	0.500	0.203	1	12/09/2004	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1120904B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	12/09/2004	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/09/2004	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/09/2004	
Tetrachloroethene	BQL	0.500	0.219	1	12/09/2004	
Toluene	BQL	0.500	0.154	1	12/09/2004	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/09/2004	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/09/2004	
Trichloroethene	BQL	0.500	0.201	1	12/09/2004	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/09/2004	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/09/2004	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/09/2004	
1,2,3-Trichloropropane	BQL	2.00	0.214	1	12/09/2004	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/09/2004	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/09/2004	
Vinyl chloride	BQL	0.500	0.464	1	12/09/2004	
m-,p-Xylene	BQL	1.00	0.388	1	12/09/2004	
o-Xylene	BQL	0.500	0.156	1	12/09/2004	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	9.89	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: lcs1120904a
Analyst: JTF
Batch ID: 1120904

Date Analyzed: 9 Dec 2004 11:21 am
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.88	97.7	77.4	123
chlorobenzene	5.0	5.41	108.2	72.5	128
1,1-dichloroethene	5.0	5.03	100.5	71.7	128
toluene	5.0	4.94	98.8	75.9	124
trichloroethene	5.0	5.04	100.7	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: _____

VO42.072303.1

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g204-423-1a x80
Batch ID: 1120904

Date Analyzed: 9 Dec 2004 8:12 pm
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	102.2	103.8	61.6	135	1.5	30
chlorobenzene	BQL	5	109.7	110.3	77.2	118	0.5	30
1,1-dichloroethene	BQL	5	102.2	105.1	64.4	130	2.8	30
toluene	BQL	5	103.3	105.4	66.4	128	2.1	30
trichloroethene	21.6	5	98.7	109.0	84.9	136	10.0	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: mc

VO43.072303.1

Results for Metals

Client Sample ID:	USTBB293-MW2	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/2/2004 12:35
Lab Sample ID:	G546-18-1	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000340**	0.0100	0.000310	1	MG/L	6010B	12/14/04	J
Lead	**0.00633**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: mc

Results for Metals

Client Sample ID:	USTBB293-MW5	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/3/2004 09:40
Lab Sample ID:	G546-18-2	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.0190**	0.0100	0.00121	1	MG/L	6010B	12/14/04	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: _____

Results for Metals

Client Sample ID:	USTBB293-MW4	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/3/2004 08:45
Lab Sample ID:	G546-18-3	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00656**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: mc

Results for Metals

Client Sample ID:	USTBB293-MW3	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/2/2004 15:45
Lab Sample ID:	G546-18-4	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00765**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: MC

Results for Metals

Client Sample ID:	USTBB293-MW1	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/2/2004 14:15
Lab Sample ID:	G546-18-5	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00858**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: mc

Results for Metals

Client Sample ID:	USTBB293-MW6	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/2/2004 14:50
Lab Sample ID:	G546-18-6	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00663**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: _____

Results for Metals

Client Sample ID:	USTBB293-BB47	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/3/2004 08:50
Lab Sample ID:	G546-18-7	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00791**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: _____

Results for Metals

Client Sample ID:	USTBB293-DUP	Analyzed By:	PSW
Client Project ID:	BB293	Date Collected:	12/2/2004 00:00
Lab Sample ID:	G546-18-8	Date Received:	12/3/04
Lab Project ID:	G546-18	Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/14/04	
Lead	**0.00731**	0.0100	0.00121	1	MG/L	6010B	12/14/04	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: 

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb2078	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	2078		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	12/13/04	
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	12/13/04	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: mv

METALS Results for LCS/LCD

ICP Batch: 2078
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.400	0.407	102	0.408	102	80	120	0.245	20
Lead	0.400	0.425	106	0.424	106	80	120	0.236	20

Reviewed By:

MS/MSD Results for METALS

Lab ID: G546-17-1
MS Lab ID: G546-17-1
MSD Lab ID: G546-17-1
ICP Batch: 2078
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	BQL	0.400	0.358	89.5	0.400	0.362	90.5	75	125	1.11	20
Lead	0.00831	0.400	0.372	93.0	0.400	0.374	93.5	75	125	0.536	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: mc

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW2
Client Project ID: BB293
Lab Sample ID: G546-18-1K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 12:35
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW2
Client Project ID: BB293
Lab Sample ID: G546-18-1K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 12:35
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	8	80
2,4,6-Tribromophenol	5	3.7	74
4-Terphenyl-d14	10	12.9	129

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: MC

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW2
Client Project ID: BB293
Lab Sample ID: G546-18-1K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/02/2004 12:35
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.88			1360
2	Know Compound peak (added by lab)	11.91			119
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW5
Client Project ID: BB293
Lab Sample ID: G546-18-2K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 09:40
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	**1.40**	10.0	1.22	1	12/13/2004	J
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	**3.10**	10.0	1.22	1	12/13/2004	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW5
Client Project ID: BB293
Lab Sample ID: G546-18-2K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 09:40
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	**155**	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	**2.60**	10.0	1.38	1	12/13/2004	J
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.2	72
2-Fluorophenol	10	8.1	81
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8	80
2,4,6-Tribromophenol	5	4.2	84
4-Terphenyl-d14	10	13.3	133

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW5
Client Project ID: BB293
Lab Sample ID: G546-18-2K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/03/2004 09:40
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.89			1290
2	Ketone, Unknown	8.58			83.6
3	Know Compound peak (added by lab)	11.92			74.7
4	1-Methylnaphthalene	10.25	000090-12-0	99	66.4
5	Ethylmethylbenzene, Isomer of	7.12			59.1
6	Trimethylbenzene, Isomer of	6.79			58.3
7	Ethyldimethylbenzene, Isomer of	7.83			32.7
8	2-Methylnaphthalene	10.10	000091-57-6	99	29.1
9	Unknown	12.46			28.1
10	Diethylbenzene, Isomer of	7.51			24.4

Comment:

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Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW4
Client Project ID: BB293
Lab Sample ID: G546-18-3K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 08:45
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW4
Client Project ID: BB293
Lab Sample ID: G546-18-3K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 08:45
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.5	85
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	5	3.8	77
4-Terphenyl-d14	10	13.6	136

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: mre

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW4
Client Project ID: BB293
Lab Sample ID: G546-18-3K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/03/2004 08:45
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.89			1330
2	Know Compound peak (added by lab)	11.91			121
3	Unknown	4.44			15.2
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW3
Client Project ID: BB293
Lab Sample ID: G546-18-4K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 15:45
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW3
Client Project ID: BB293
Lab Sample ID: G546-18-4K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 15:45
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9	90
2-Fluorophenol	10	8.8	88
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	5	4	79
4-Terphenyl-d14	10	13.8	138

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW3
Client Project ID: BB293
Lab Sample ID: G546-18-4K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

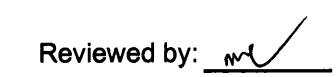
Analyzed By: MRC
Date Collected: 12/02/2004 15:45
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.88			1420
2	Know Compound peak (added by lab)	11.91			116
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW1
Client Project ID: BB293
Lab Sample ID: G546-18-5K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 14:15
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW1
Client Project ID: BB293
Lab Sample ID: G546-18-5K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 14:15
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	6.8	68
Nitrobenzene-d5	10	6.8	68
Phenol-d6	10	6.9	69
2,4,6-Tribromophenol	5	3.5	69
4-Terphenyl-d14	10	13.8	138

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: mm

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW1
Client Project ID: BB293
Lab Sample ID: G546-18-5K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/02/2004 14:15
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.87			1230
2	Know Compound peak (added by lab)	11.91			111
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: mc

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW6
Client Project ID: BB293
Lab Sample ID: G546-18-6K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 14:50
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW6
Client Project ID: BB293
Lab Sample ID: G546-18-6K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 14:50
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.7	87
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	5	4.1	81
4-Terphenyl-d14	10	13.2	132

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: mc

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW6
Client Project ID: BB293
Lab Sample ID: G546-18-6K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/02/2004 14:50
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.87			931
2	Know Compound peak (added by lab)	11.91			119
3	Unknown	4.59			15.6
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-18-7K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 08:50
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-18-7K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/03/2004 08:50
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.5	85
2-Fluorophenol	10	8.8	88
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	5	3.5	70
4-Terphenyl-d14	10	13.3	133

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: MC

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-18-7K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/03/2004 08:50
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.92			1340
2	Know Compound peak (added by lab)	11.92			118
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: MRC

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-18-8K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 00:00
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/13/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/13/2004	
Anthracene	BQL	10.0	1.75	1	12/13/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/13/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/13/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/13/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/13/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/13/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/13/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/13/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/13/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/13/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/13/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/13/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/13/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/13/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/13/2004	
Chrysene	BQL	10.0	1.11	1	12/13/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/13/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/13/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/13/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/13/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/13/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/13/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/13/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/13/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/13/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/13/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/13/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/13/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/13/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/13/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/13/2004	
Fluoranthene	BQL	10.0	1.41	1	12/13/2004	
Fluorene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/13/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/13/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/13/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/13/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/13/2004	
Isophorone	BQL	10.0	1.27	1	12/13/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-18-8K
Lab Project ID: G546-18

Analyzed By: MRC
Date Collected: 12/02/2004 00:00
Date Received: 12/03/2004
Date Extracted: 12/09/2004
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/13/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/13/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/13/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/13/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/13/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/13/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/13/2004	
Phenanthrene	BQL	10.0	1.38	1	12/13/2004	
Phenol	BQL	10.0	3.38	1	12/13/2004	
Pyrene	BQL	10.0	2.08	1	12/13/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/13/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/13/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.8	78
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	7.9	79
Phenol-d6	10	7.6	76
2,4,6-Tribromophenol	5	3.8	75
4-Terphenyl-d14	10	11.4	114

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: mr

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-18-8K
Lab Project ID: G546-18
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 12/02/2004 00:00
Date Received: 12/03/2004
Date Analyzed: 12/13/2004
Date Extracted: 12/09/2004
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	11.91			124
2	Know Compound peak (added by lab)	4.44			9.04
3	Unknown	4.60			7.96
4	Know Compound peak (added by lab)	12.34			6.05
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2108
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 12/09/2004
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/14/2004	
Acenaphthylene	BQL	10.0	1.12	1	12/14/2004	
Anthracene	BQL	10.0	1.75	1	12/14/2004	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/14/2004	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/14/2004	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/14/2004	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/14/2004	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/14/2004	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/14/2004	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/14/2004	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/14/2004	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/14/2004	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/14/2004	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/14/2004	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/14/2004	
2-Chlorophenol	BQL	10.0	4.22	1	12/14/2004	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/14/2004	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/14/2004	
Chrysene	BQL	10.0	1.11	1	12/14/2004	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/14/2004	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/14/2004	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/14/2004	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/14/2004	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/14/2004	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/14/2004	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/14/2004	
Diethylphthalate	BQL	10.0	1.48	1	12/14/2004	
Dimethylphthalate	BQL	10.0	1.04	1	12/14/2004	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/14/2004	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/14/2004	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/14/2004	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/14/2004	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/14/2004	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/14/2004	
Fluoranthene	BQL	10.0	1.41	1	12/14/2004	
Fluorene	BQL	10.0	1.22	1	12/14/2004	
Hexachlorobenzene	BQL	10.0	1.22	1	12/14/2004	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/14/2004	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/14/2004	
Hexachloroethane	BQL	10.0	1.58	1	12/14/2004	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/14/2004	
Isophorone	BQL	10.0	1.27	1	12/14/2004	

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2108
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 12/09/2004
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	12/14/2004	
Nitrobenzene	BQL	10.0	1.32	1	12/14/2004	
2-Nitrophenol	BQL	10.0	3.52	1	12/14/2004	
4-Nitrophenol	BQL	50.0	3.17	1	12/14/2004	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/14/2004	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	12/14/2004	
Pentachlorophenol	BQL	50.0	2.83	1	12/14/2004	
Phenanthrene	BQL	10.0	1.38	1	12/14/2004	
Phenol	BQL	10.0	3.38	1	12/14/2004	
Pyrene	BQL	10.0	2.08	1	12/14/2004	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/14/2004	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/14/2004	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	8.1	81
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8.1	81
2,4,6-Tribromophenol	5	3.5	70
4-Terphenyl-d14	10	13.5	135

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: mc

Results For Water Laboratory Control Standard (LCS)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-LCS-2108
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 12/14/04
Analyzed By: MRC

	Spiked	LCS	LCS	LIMITS	
	ng	ng	% Rec.	LOWER	UPPER
Acenaphthylene	10	9.25	93	84	114
4-Chloro-3-methylphenol	10	7.79	78	63	110
2-Chlorophenol	10	7.42	74	64	94
1,4-Dichlorobenzene	10	4.38	44	27	78
2,4-Dinitrotoluene	10	8.47	85	73	103
N-Nitrosodi-n-propylamine	10	8.06	81	73	100
4-Nitrophenol	10	9.11	91	45	127
Pentachlorophenol	10	6.39	64	54	99
Phenol	10	7.75	78	64	94
Pyrene	10	7.70	77	58	114
1,2,4-Trichlorobenzene	10	6.47	65	51	96

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: mc

Results For Water Matrix Spike / Matrix Spike Duplicate (MS/MSD)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-MS-2108
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 12/14/04
Analyzed By: MRC
Dilution: 1

					Limits			Limit
	Sample	Spiked	MS	MSD	Lower	Upper	RPD	Max.
	ng	ng	%	%	%	%	%	%
Acenaphthylene	BQL	10	93	95	79	118	2.5	30
4-Chloro-3-methylphenol	BQL	10	83	84	63	112	1.5	30
2-Chlorophenol	BQL	10	73	76	57	102	3.0	30
1,4-Dichlorobenzene	BQL	10	50	51	40	89	3.2	30
2,4-Dinitrotoluene	BQL	10	85	85	70	108	0.0	30
N-Nitrosodi-n-propylamine	BQL	10	81	85	66	109	5.2	30
4-Nitrophenol	BQL	10	125	124	50	130	0.9	30
Pentachlorophenol	BQL	10	80	78	52	110	2.6	30
Phenol	BQL	10	78	81	59	100	3.7	30
Pyrene	BQL	10	76	71	58	112	6.6	30
1,2,4-Trichlorobenzene	BQL	10	67	67	46	103	0.9	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: mc

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 43616

Page _____ **of** _____

Client: Engineering + Environment
Address: 824 Gumbranch rd Suite 5
Address: Jacksonville NC 28540
Quote #: _____

Project ID: BB293
Contact: Bill Morris
Phone: 910-989-3214
Fax: 910-989-3341

Date: 12-3-04
Turnaround: Standard
Job Number: _____
P.O. Number: _____

Report To: _____
Invoice To: _____

Sample ID	Date	Time	Matrix	Preservatives: HCl	Nitric	Ice		Analyses: VPH	EPH	6210D	6010B w/6020C PB+CR	6250+10 TICs					Comments: Please specify any special reporting requirements
																	G546-18
UST BB293-MW2	12-2-04	12:35	GW	X	X	X		3	1	3	1	1					
UST BB293-MW5	12-3-04	9:40	GW	X	X	X		3	1	3	1	1					
UST BB293-MW4	12-3-04	8:45	GW	X	X	X		3	1	3	1	1					
UST BB293-MW3	12-2-04	15:45	GW	X	X	X		3	1	3	1	1					
UST BB293-MW1	12-2-04	14:15	GW	X	X	X		3	1	3	1	1					
UST BB293-MW6	12-2-04	14:50	GW	X	X	X		3	1	3	1	1					
UST BB293-BB47	12-3-04	8:50	GW	X	X	X		3	1	3	1	1					
UST BB293-DUP	12-2-04	—	GW	X	X	X		3	1	3	1	1					

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Bob Sellers	12-3-04	11:30	[signature]	12/3/04	1615	On ice pickup	NC _____ SC _____ Other _____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

March 2005

Mr. Bill Morris
Engineering & Environment, Inc.
824 Gum Branch Road
Jacksonville NC 28546

Report Number: G546-25

Client Project: BB293

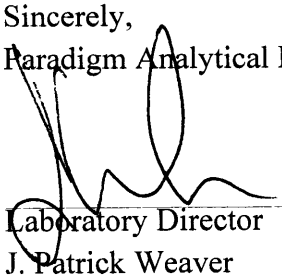
Dear Mr. Morris:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.



3/23/05

Laboratory Director — Date
J. Patrick Weaver

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW05
Client Project ID: BB293
Lab Sample ID: G546-25-1A
Lab Project ID: G546-25

Analyzed By: JTF
Date Collected: 3/7/2005 12:55
Date Received: 3/8/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	2.00	0.608	4	3/17/2005	
Bromobenzene	BQL	2.00	0.796	4	3/17/2005	
Bromochloromethane	BQL	2.00	1.25	4	3/17/2005	
Bromodichloromethane	BQL	2.00	0.780	4	3/17/2005	
Bromoform	BQL	2.00	0.464	4	3/17/2005	
Bromomethane	BQL	2.00	1.59	4	3/17/2005	
n-Butylbenzene	BQL	2.00	1.05	4	3/17/2005	
sec-Butylbenzene	**4.92**	2.00	0.936	4	3/17/2005	
tert-Butylbenzene	**0.880**	2.00	0.724	4	3/17/2005	J
Carbon tetrachloride	BQL	2.00	0.600	4	3/17/2005	
Chlorobenzene	BQL	2.00	0.712	4	3/17/2005	
Chloroethane	BQL	2.00	1.49	4	3/17/2005	
Chloroform	BQL	2.00	0.780	4	3/17/2005	
Chloromethane	BQL	2.00	1.83	4	3/17/2005	
2-Chlorotoluene	BQL	2.00	0.816	4	3/17/2005	
4-Chlorotoluene	BQL	2.00	0.792	4	3/17/2005	
Dibromochloromethane	BQL	2.00	0.792	4	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	20.0	7.56	4	3/17/2005	
Dibromomethane	BQL	2.00	1.10	4	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	2.00	1.08	4	3/17/2005	
1,2-Dichlorobenzene	BQL	2.00	0.748	4	3/17/2005	
1,3-Dichlorobenzene	BQL	2.00	0.968	4	3/17/2005	
1,4-Dichlorobenzene	BQL	2.00	0.708	4	3/17/2005	
1,1-Dichloroethane	BQL	2.00	0.804	4	3/17/2005	
1,1-Dichloroethene	BQL	2.00	0.636	4	3/17/2005	
1,2-Dichloroethane	BQL	2.00	0.892	4	3/17/2005	
cis-1,2-Dichloroethene	BQL	2.00	0.644	4	3/17/2005	
trans-1,2-dichloroethene	BQL	2.00	0.920	4	3/17/2005	
1,2-Dichloropropane	BQL	2.00	0.528	4	3/17/2005	
1,3-Dichloropropane	BQL	2.00	0.652	4	3/17/2005	
2,2-Dichloropropane	BQL	2.00	1.05	4	3/17/2005	
1,1-Dichloropropene	BQL	2.00	0.704	4	3/17/2005	
Dichlorodifluoromethane	BQL	20.0	1.84	4	3/17/2005	
Diisopropyl ether (DIPE)	BQL	2.00	0.816	4	3/17/2005	
Ethylbenzene	**17.4**	2.00	0.732	4	3/17/2005	
Hexachlorobutadiene	BQL	2.00	1.62	4	3/17/2005	
Isopropylbenzene	**6.08**	2.00	0.652	4	3/17/2005	
4-Isopropyltoluene	**5.20**	2.00	0.812	4	3/17/2005	
Methylene chloride	BQL	20.0	0.704	4	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	2.00	0.804	4	3/17/2005	
Naphthalene	**107**	2.00	1.04	4	3/17/2005	
n-Propyl benzene	**9.60**	2.00	0.812	4	3/17/2005	
Styrene	BQL	2.00	0.940	4	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	2.00	1.19	4	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.868	4	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW05
Client Project ID: BB293
Lab Sample ID: G546-25-1A
Lab Project ID: G546-25

Analyzed By: JTF
Date Collected: 3/7/2005 12:55
Date Received: 3/8/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	2.00	0.876	4	3/17/2005	
Toluene	BQL	2.00	0.616	4	3/17/2005	
1,2,3-Trichlorobenzene	BQL	2.00	0.824	4	3/17/2005	
1,2,4-Trichlorobenzene	BQL	2.00	1.08	4	3/17/2005	
Trichloroethene	BQL	2.00	0.804	4	3/17/2005	
1,1,1-Trichloroethane	BQL	2.00	0.672	4	3/17/2005	
1,1,2-Trichloroethane	BQL	2.00	0.924	4	3/17/2005	
Trichlorofluoromethane	BQL	2.00	1.92	4	3/17/2005	
1,2,3-Trichloropropane	BQL	2.00	0.856	4	3/17/2005	
1,2,4-Trimethylbenzene	**79.3**	2.00	0.820	4	3/17/2005	
1,3,5-Trimethylbenzene	**11.7**	2.00	0.716	4	3/17/2005	
Vinyl chloride	BQL	2.00	1.86	4	3/17/2005	
m-,p-Xylene	**3.60**	4.00	1.55	4	3/17/2005	J
o-Xylene	**15.0**	2.00	0.624	4	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	9.77	98

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: JTF

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW02
Client Project ID: BB293
Lab Sample ID: G546-25-2B
Lab Project ID: G546-25

Analyzed By: JTF
Date Collected: 3/7/2005 13:50
Date Received: 3/8/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW02
Client Project ID: BB293
Lab Sample ID: G546-25-2B
Lab Project ID: G546-25

Analyzed By: JTF
Date Collected: 3/7/2005 13:50
Date Received: 3/8/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	9.7	97

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: JTF

Results for Weekly 2ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0315317.D

	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	2	1.81	90.3	60.0	140
bromobenzene	2	1.81	90.6	60.0	140
bromochloromethane	2	2.22	111.1	60.0	140
bromodichloromethane	2	1.82	91.1	60.0	140
bromoform	2	1.62	81.2	60.0	140
bromomethane	2	2.16	108.0	60.0	140
n-butylbenzene	2	1.76	88.2	60.0	140
sec-butylbenzene	2	1.82	91.2	60.0	140
tert-butylbenzene	2	1.81	90.6	60.0	140
carbon tetrachloride	2	1.76	88.1	60.0	140
chlorobenzene	2	1.81	90.5	60.0	140
chloroethane	2	2.23	111.5	60.0	140
chloroform	2	1.80	89.8	60.0	140
chloromethane	2	2.24	111.8	60.0	140
2-chlorotoluene	2	1.85	92.5	60.0	140
4-chlorotoluene	2	1.80	90.1	60.0	140
dibromochloromethane	2	1.73	86.4	60.0	140
1,2-dibromomethane	2	1.81	90.4	60.0	140
dibromomethane	2	2.03	101.5	60.0	140
1,2-dichlorobenzene	2	1.85	92.5	60.0	140
1,3-dichlorobenzene	2	1.80	89.8	60.0	140
1,4-dichlorobenzene	2	1.79	89.5	60.0	140
dichlorodifluoromethane	2	2.09	104.7	60.0	140
1,1-dichloroethane	2	2.31	115.6	60.0	140
1,2-dichloroethane	2	1.78	88.8	60.0	140
1,1-dichloroethene	2	1.87	93.5	60.0	140
cis-1,2-dichloroethene	2	2.26	113.2	60.0	140
trans-1,2-dichloroethene	2	2.35	117.3	60.0	140
1,2-dichloropropane	2	1.79	89.4	60.0	140
1,3-dichloropropane	2	1.79	89.6	60.0	140
2,2-dichloropropane	2	1.64	82.0	60.0	140
1,1-dichloropropene	2	1.84	92.1	60.0	140
cis-1,3-dichloropropene	2	1.75	87.7	60.0	140
trans-1,3-dichloropropene	2	1.74	87.2	60.0	140
diisopropyl ether	2	1.82	90.8	60.0	140
ethylbenzene	2	1.80	89.8	60.0	140
hexachlorobutadiene	2	1.77	88.5	60.0	140
isopropylbenzene	2	1.78	89.0	60.0	140

Results for Weekly 2ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0315317.D

	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	2	1.78	89.2	60.0	140
methyl-tert-butyl ether	2	1.77	88.5	60.0	140
methylene chloride	2	2.46	123.2	60.0	140
naphthalene	2	1.59	79.3	60.0	140
n-propyl benzene	2	1.81	90.5	60.0	140
styrene	2	1.77	88.6	60.0	140
1,1,1,2-tetrachloroethane	2	1.82	91.0	60.0	140
1,1,2,2-tetrachloroethane	2	1.73	86.5	60.0	140
tetrachloroethene	2	1.81	90.7	60.0	140
toluene	2	1.80	90.0	60.0	140
1,2,3-trichlorobenzene	2	1.77	88.4	60.0	140
1,2,4-trichlorobenzene	2	1.73	86.3	60.0	140
1,1,1-trichloroethane	2	1.86	93.0	60.0	140
1,1,2-trichloroethane	2	1.83	91.5	60.0	140
trichloroethene	2	2.42	121.0	60.0	140
trichlorofluoromethane	2	2.30	114.8	60.0	140
1,2,3-trichloropropane	2	1.65	82.3	60.0	140
1,2,4-trimethylbenzene	2	1.78	88.8	60.0	140
1,3,5-trimethylbenzene	2	1.81	90.5	60.0	140
vinyl chloride	2	2.26	113.2	60.0	140
m/p-xylene	4	3.59	89.8	60.0	140
o-xylene	2	1.85	92.5	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: 

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g111-754-1a
Batch ID: 3031705

Date Analyzed: 17 Mar 2005 7:50 pm
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	108.9	105.1	61.6	135	3.5	30
chlorobenzene	BQL	5	110.5	107.3	77.2	118	2.9	30
1,1-dichloroethene	BQL	5	111.0	106.2	64.4	130	4.4	30
toluene	BQL	5	108.8	104.5	66.4	128	4.0	30
trichloroethene	0.8	5	91.7	87.7	84.9	136	4.4	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: AF

VO43.072303.1

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3031705B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3031705B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: lcs3031705a
Analyst: JTF
Batch ID: 3031705

Date Analyzed: 17 Mar 2005 10:24 am
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	5.08	101.6	77.4	123
chlorobenzene	5.0	5.03	100.6	72.5	128
1,1-dichloroethene	5.0	5.27	105.4	71.7	128
toluene	5.0	5.03	100.5	75.9	124
trichloroethene	5.0	5.11	102.1	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: _____

VO42.072303.1

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/17/05
File: 0317303.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	10.42	104.2	60.0	140
bromobenzene	10	10.28	102.8	60.0	140
bromochloromethane	10	10.27	102.7	60.0	140
bromodichloromethane	10	10.31	103.1	60.0	140
bromoform	10	9.61	96.1	60.0	140
bromomethane	10	9.54	95.4	60.0	140
n-butylbenzene	10	10.36	103.6	60.0	140
sec-butylbenzene	10	10.22	102.2	60.0	140
tert-butylbenzene	10	10.23	102.3	60.0	140
carbon tetrachloride	10	10.41	104.1	60.0	140
chlorobenzene	10	10.23	102.3	60.0	140
chloroethane	10	10.45	104.5	60.0	140
chloroform	10	10.42	104.2	60.0	140
chloromethane	10	9.94	99.4	60.0	140
2-chlorotoluene	10	10.34	103.4	60.0	140
4-chlorotoluene	10	10.32	103.2	60.0	140
dibromochloromethane	10	10.16	101.6	60.0	140
1,2-dibromomethane	10	10.29	102.9	60.0	140
dibromomethane	10	10.10	101.0	60.0	140
1,2-dichlorobenzene	10	9.98	99.8	60.0	140
1,3-dichlorobenzene	10	10.09	100.9	60.0	140
1,4-dichlorobenzene	10	10.11	101.1	60.0	140
dichlorodifluoromethane	10	8.73	87.3	60.0	140
1,1-dichloroethane	10	9.82	98.2	60.0	140
1,2-dichloroethane	10	10.47	104.7	60.0	140
1,1-dichloroethene	10	10.76	107.6	60.0	140
cis-1,2-dichloroethene	10	9.92	99.2	60.0	140
trans-1,2-dichloroethene	10	10.05	100.5	60.0	140
1,2-dichloropropane	10	10.35	103.5	60.0	140
1,3-dichloropropane	10	10.21	102.1	60.0	140
2,2-dichloropropane	10	10.49	104.9	60.0	140
1,1-dichloropropene	10	10.74	107.4	60.0	140
cis-1,3-dichloropropene	10	10.17	101.7	60.0	140
trans-1,3-dichloropropene	10	9.85	98.5	60.0	140
diisopropyl ether	10	10.17	101.7	60.0	140
ethylbenzene	10	10.27	102.7	60.0	140
hexachlorobutadiene	10	10.23	102.3	60.0	140
isopropylbenzene	10	10.22	102.2	60.0	140
4-isopropyltoluene	10	10.22	102.2	60.0	140
methyl-tert-butyl ether	10	10.28	102.8	60.0	140
methylene chloride	10	9.31	93.1	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/17/05
File: 0317303.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
naphthalene	10	9.97	99.7	60.0	140
n-propyl benzene	10	10.32	103.2	60.0	140
styrene	10	10.23	102.3	60.0	140
1,1,1,2-tetrachloroethane	10	10.02	100.2	60.0	140
1,1,2,2-tetrachloroethane	10	10.18	101.8	60.0	140
tetrachloroethene	10	10.26	102.6	60.0	140
toluene	10	10.43	104.3	60.0	140
1,2,3-trichlorobenzene	10	9.84	98.4	60.0	140
1,2,4-trichlorobenzene	10	10.15	101.5	60.0	140
1,1,1-trichloroethane	10	10.47	104.7	60.0	140
1,1,2-trichloroethane	10	10.35	103.5	60.0	140
trichloroethene	10	9.74	97.4	60.0	140
trichlorofluoromethane	10	11.03	110.3	60.0	140
1,2,3-trichloropropane	10	8.45	84.5	60.0	140
1,2,4-trimethylbenzene	10	10.31	103.1	60.0	140
1,3,5-trimethylbenzene	10	10.31	103.1	60.0	140
vinyl chloride	10	10.18	101.8	60.0	140
m/p-xylene	20	20.58	102.9	60.0	140
o-xylene	10	10.44	104.4	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: JTF

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/07/05
Date Received	03/08/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	270 (µg/L)
C_9-C_{10} Aromatics**	580 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-25-1d

Reviewed By: SF

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/07/05
Date Received	03/08/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	98

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-25-2d

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/17/04 PID Initial Calibration Date: 12/17/04

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	4.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.993	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	6.8	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 03/14/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	3.0
C_9-C_{12} Aliphatics	500	50	-0.1
C_9-C_{10} Aromatics	500	50	-3.5

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Date Collected	03/07/05
Date Received	03/08/05
Date Extracted	03/11/05
Date Analyzed	03/19/05
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	420 (ug/L)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	82
Fractionation Surrogate 1 % Recovery	65

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-25-1L

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Date Collected	03/07/05
Date Received	03/08/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	88
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-25-2J

Reviewed By: JF

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 03/14/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	8.10	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	5.1	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	9.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 03/16/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	9.6
C_{19}-C_{36} Aliphatics	160	6.0
C_{11}-C_{22} Aromatics	340	7.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 03/14/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	8.10	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	5.1	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	9.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 03/18/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	12.2
C_{19}-C_{36} Aliphatics	160	8.8
C_{11}-C_{22} Aromatics	340	6.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW05
Client Project ID: BB293
Lab Sample ID: G546-25-1K
Lab Project ID: G546-25

Analyzed By: MRC
Date Collected: 3/7/2005 12:55
Date Received: 3/8/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	**2.30**	10.0	1.22	1	3/15/2005	J
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	**4.10**	10.0	1.22	1	3/15/2005	J
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW05
Client Project ID: BB293
Lab Sample ID: G546-25-1K
Lab Project ID: G546-25

Analyzed By: MRC
Date Collected: 3/7/2005 12:55
Date Received: 3/8/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	**106**	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	**2.20**	10.0	1.38	1	3/15/2005	J
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.8	88
2-Fluorophenol	10	9	90
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	9.6	96
2,4,6-Tribromophenol	5	6.2	124
4-Terphenyl-d14	10	10.6	106

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW05
Client Project ID: BB293
Lab Sample ID: G546-25-1K
Lab Project ID: G546-25
Sample Wt/Vol: 500 ML
Dilution: 1

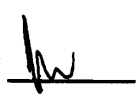
Analyzed By: MRC
Date Collected: 3/7/2005 12:55
Date Received: 3/8/2005
Date Extracted: 3/11/2005
Date Analyzed: 3/15/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.40			1410
2	Trimethylbenzene, Isomer of	6.27			94.4
3	1-Methylnaphthalene	9.69	000090-12-0	99	78
4	Ketone, Unknown	8.04			64.3
5	Aromatic, Unknown	6.76			31.6
6	Ethylmethylbenzene, Isomer of	6.59			29.6
7	Tetramethylbenzene, Isomer of	7.70			26
8	Diethylbenzene, Isomer of	6.99			25.3
9	Methylpropylbenzene, Isomer of	6.93			23.4
10	Tetrahydronaphthalene, Isomer of	8.17			21.6

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-MW02
Client Project ID: BB293
Lab Sample ID: G546-25-2I
Lab Project ID: G546-25

Analyzed By: MRC
Date Collected: 3/7/2005 13:50
Date Received: 3/8/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB293-MW02
Client Project ID: BB293
Lab Sample ID: G546-25-2I
Lab Project ID: G546-25

Analyzed By: MRC
Date Collected: 3/7/2005 13:50
Date Received: 3/8/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.6	66
2-Fluorophenol	10	6.8	68
Nitrobenzene-d5	10	7.3	73
Phenol-d6	10	7.2	72
2,4,6-Tribromophenol	5	3.3	66
4-Terphenyl-d14	10	8.4	84

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: JF

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW02
Client Project ID: BB293
Lab Sample ID: G546-25-2I
Lab Project ID: G546-25
Sample Wt/Vol: 500 ML
Dilution: 1

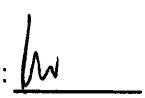
Analyzed By: MRC
Date Collected: 3/7/2005 13:50
Date Received: 3/8/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.41			1060
2	Know Compound peak (added by lab)	11.33			11.5
3	Unknown	5.68			6.8
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2509
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 3/11/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2509
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 3/11/2005
Matrix: WATER

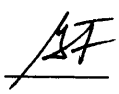
Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.4	64
2-Fluorophenol	10	6.6	66
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.9	69
2,4,6-Tribromophenol	5	3.4	69
4-Terphenyl-d14	10	7.4	74

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results For Water Laboratory Control Standard (LCS)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-LCS-2520
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 03/15/05
Analyzed By: MRC

	Spiked	LCS	LCS	LIMITS	
	ng	ng	% Rec.	LOWER	UPPER
Acenaphthylene	10	12.28	123	55	126
4-Chloro-3-methylphenol	10	11.33	113	43	124
2-Chlorophenol	10	7.69	77	53	100
1,4-Dichlorobenzene	10	4.40	44	23	94
2,4-Dinitrotoluene	10	12.08	121	46	130
N-Nitrosodi-n-propylamine	10	10.07	101	51	117
4-Nitrophenol	10	12.22	122	21	162
Pentachlorophenol	10	9.46	95	35	108
Phenol	10	8.52	85	51	108
Pyrene	10	11.68	117	57	140
1,2,4-Trichlorobenzene	10	7.73	77	44	106

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: MF

Results For Water Matrix Spike / Matrix Spike Duplicate (MS/MSD)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-MS-2509
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 03/15/05
Analyzed By: MRC
Dilution: 1

	Sample	Spiked	MS	MSD	Limits		RPD	Limit
					Lower	Upper		Max.
	ng	ng	%	%	%	%	%	%
Acenaphthylene	BQL	10	133 *	104	56	121	24.6	30
4-Chloro-3-methylphenol	BQL	10	123 *	97	53	112	23.8	30
2-Chlorophenol	BQL	10	109 *	86	52	101	23.6	30
1,4-Dichlorobenzene	BQL	10	68	58	40	86	15.9	30
2,4-Dinitrotoluene	BQL	10	125 *	99	55	116	22.6	30
N-Nitrosodi-n-propylamine	BQL	10	124 *	96	53	115	25.4	30
4-Nitrophenol	BQL	10	130	101	40	149	25.4	30
Pentachlorophenol	BQL	10	101	82	40	117	21.2	30
Phenol	BQL	10	109	86	47	112	23.4	30
Pyrene	BQL	10	119	97	61	130	20.6	30
1,2,4-Trichlorobenzene	BQL	10	106 *	86	50	99	20.9	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: JF

Results for Metals

Client Sample ID:	USTBB293-MW05	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/7/2005 12:55
Lab Sample ID:	G546-25-1	Date Received:	3/8/05
Lab Project ID:	G546-25	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000530**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By:

Results for Metals

Client Sample ID:	USTBB293-MW02	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/7/2005 13:50
Lab Sample ID:	G546-25-2	Date Received:	3/8/05
Lab Project ID:	G546-25	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000990**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By:

MET_LIMS_3.1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb2495	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000330**	0.0100	0.000310	1	MG/L	6010B	3/22/05	J
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: _____
MET_LIMS_3.1

MS/MSD Results for METALS

Lab ID: G546-25-1
MS Lab ID: G546-25-1
MSD Lab ID: G546-25-1
ICP Batch: 2495
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.00053	0.400	0.343	85.6	0.400	0.372	92.9	75	125	8.11	20
Lead	BQL	0.400	0.362	90.5	0.400	0.387	96.8	75	125	6.68	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By:

METALS Results for LCS/LCD

ICP Batch: 2495
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.400	0.350	87.5	0.357	89.3	80	120	1.98	20
Lead	0.400	0.352	88.0	0.358	89.5	80	120	1.69	20

Reviewed By:

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 43620

Page _____ **of** _____

Client: Engineering + Environment
Address: 824 Gumbranch rd
Address: Suite 5 Jacksonville NC
Quote #: _____

Project ID: BB293
Contact: Bill Morris
Phone: 910-989-3214
Fax: 910-989-3341

Date: 3/7/05
Turnaround: Standard
Job Number: _____
P.O. Number: _____

Report To: Bill Morris

Invoice To: _____

Sample ID	Date	Time	Matrix	Preservatives: HCl	HNO3	none		Analyses: 602 8260 VPH	EPH	625 w/10 TICs	3030C lead + CR						Comments: Please specify any special reporting requirements
usT88293-MW05	3/7/05	12:55	GW	6	1	1		3	2	1	-	1					
usT88293-MW02	3/7/05	13:50	GW	6	1	1		3	2	1	1	1					G546-25
																	Change per revised coc dent 3/8/05 ajn

Relinquished By	Date	Time	Received By	Date	Time	Temperature
Bob Sellers	3/7/05	15:00	Julie Johnson	3/8/05	1055	4.2°C

State Certification Requested
NC _____ SC _____ Other _____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Mr. Bill Morris
Engineering & Environment, Inc.
824 Gum Branch Road
Jacksonville NC 28546

Report Number: G546-27

Client Project: BB293

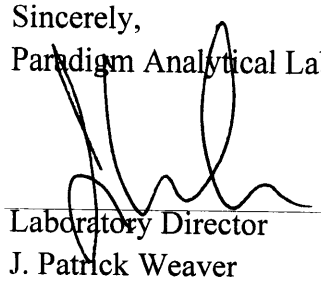
Dear Mr. Morris:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.



3/30/05

Laboratory Director — Date
J. Patrick Weaver

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW01
Client Project ID: BB293
Lab Sample ID: G546-27-1A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 10:05
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW01
Client Project ID: BB293
Lab Sample ID: G546-27-1A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 10:05
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	9.88	99
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: JTF

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW06
Client Project ID: BB293
Lab Sample ID: G546-27-2A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 10:50
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW06
Client Project ID: BB293
Lab Sample ID: G546-27-2A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 10:50
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW03
Client Project ID: BB293
Lab Sample ID: G546-27-3A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 11:30
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	**0.220**	0.500	0.163	1	3/17/2005	J
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	**0.290**	0.500	0.259	1	3/17/2005	J
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW03
Client Project ID: BB293
Lab Sample ID: G546-27-3A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 11:30
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: JTF

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW04
Client Project ID: BB293
Lab Sample ID: G546-27-4A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 12:20
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	**0.220**	0.500	0.203	1	3/17/2005	J
Methylene chloride	BQL	5.00	0.176	1	3/17/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-MW04
Client Project ID: BB293
Lab Sample ID: G546-27-4A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 12:20
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	9.98	100
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-27-5A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 14:20
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	**0.420**	5.00	0.176	1	3/17/2005	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-27-5A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 14:20
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.4	104
1,2-Dichloroethane-d4	10	9.94	99
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-27-6A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	**0.220**	0.500	0.203	1	3/17/2005	J
Methylene chloride	**0.180**	5.00	0.176	1	3/17/2005	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-27-6A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	9.95	99
Toluene-d8	10	9.4	94

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: JTF

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-27-7A
Lab Project ID: G546-27

Analyzed By: JTF
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/17/2005	
Bromobenzene	BQL	0.500	0.199	1	3/17/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/17/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/17/2005	
Bromoform	BQL	0.500	0.116	1	3/17/2005	
Bromomethane	BQL	0.500	0.398	1	3/17/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/17/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/17/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/17/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/17/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/17/2005	
Chloroethane	BQL	0.500	0.373	1	3/17/2005	
Chloroform	BQL	0.500	0.195	1	3/17/2005	
Chloromethane	BQL	0.500	0.457	1	3/17/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/17/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/17/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/17/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/17/2005	
Dibromomethane	BQL	0.500	0.276	1	3/17/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/17/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/17/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/17/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/17/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/17/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/17/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/17/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/17/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/17/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/17/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/17/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/17/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/17/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/17/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/17/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/17/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/17/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/17/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/17/2005	
Methylene chloride	**0.700**	5.00	0.176	1	3/17/2005	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/17/2005	
Naphthalene	BQL	0.500	0.259	1	3/17/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/17/2005	
Styrene	BQL	0.500	0.235	1	3/17/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/17/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/17/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: BB293
Lab Sample ID: G546-27-7A
Lab Project ID: G546-27

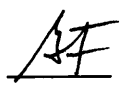
Analyzed By: JTF
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/17/2005	
Toluene	BQL	0.500	0.154	1	3/17/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/17/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/17/2005	
Trichloroethene	BQL	0.500	0.201	1	3/17/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/17/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/17/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/17/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/17/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/17/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/17/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/17/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/17/2005	
o-Xylene	BQL	0.500	0.156	1	3/17/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	9.99	100
Toluene-d8	10	9.98	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

Results for Weekly 2ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0315317.D

	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	2	1.81	90.3	60.0	140
bromobenzene	2	1.81	90.6	60.0	140
bromochloromethane	2	2.22	111.1	60.0	140
bromodichloromethane	2	1.82	91.1	60.0	140
bromoform	2	1.62	81.2	60.0	140
bromomethane	2	2.16	108.0	60.0	140
n-butylbenzene	2	1.76	88.2	60.0	140
sec-butylbenzene	2	1.82	91.2	60.0	140
tert-butylbenzene	2	1.81	90.6	60.0	140
carbon tetrachloride	2	1.76	88.1	60.0	140
chlorobenzene	2	1.81	90.5	60.0	140
chloroethane	2	2.23	111.5	60.0	140
chloroform	2	1.80	89.8	60.0	140
chloromethane	2	2.24	111.8	60.0	140
2-chlorotoluene	2	1.85	92.5	60.0	140
4-chlorotoluene	2	1.80	90.1	60.0	140
dibromochloromethane	2	1.73	86.4	60.0	140
1,2-dibromomethane	2	1.81	90.4	60.0	140
dibromomethane	2	2.03	101.5	60.0	140
1,2-dichlorobenzene	2	1.85	92.5	60.0	140
1,3-dichlorobenzene	2	1.80	89.8	60.0	140
1,4-dichlorobenzene	2	1.79	89.5	60.0	140
dichlorodifluoromethane	2	2.09	104.7	60.0	140
1,1-dichloroethane	2	2.31	115.6	60.0	140
1,2-dichloroethane	2	1.78	88.8	60.0	140
1,1-dichloroethene	2	1.87	93.5	60.0	140
cis-1,2-dichloroethene	2	2.26	113.2	60.0	140
trans-1,2-dichloroethene	2	2.35	117.3	60.0	140
1,2-dichloropropane	2	1.79	89.4	60.0	140
1,3-dichloropropane	2	1.79	89.6	60.0	140
2,2-dichloropropane	2	1.64	82.0	60.0	140
1,1-dichloropropene	2	1.84	92.1	60.0	140
cis-1,3-dichloropropene	2	1.75	87.7	60.0	140
trans-1,3-dichloropropene	2	1.74	87.2	60.0	140
diisopropyl ether	2	1.82	90.8	60.0	140
ethylbenzene	2	1.80	89.8	60.0	140
hexachlorobutadiene	2	1.77	88.5	60.0	140
isopropylbenzene	2	1.78	89.0	60.0	140

Results for Weekly 2ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0315317.D

	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
4-isopropyltoluene	2	1.78	89.2	60.0	140
methyl-tert-butyl ether	2	1.77	88.5	60.0	140
methylene chloride	2	2.46	123.2	60.0	140
naphthalene	2	1.59	79.3	60.0	140
n-propyl benzene	2	1.81	90.5	60.0	140
styrene	2	1.77	88.6	60.0	140
1,1,1,2-tetrachloroethane	2	1.82	91.0	60.0	140
1,1,2,2-tetrachloroethane	2	1.73	86.5	60.0	140
tetrachloroethene	2	1.81	90.7	60.0	140
toluene	2	1.80	90.0	60.0	140
1,2,3-trichlorobenzene	2	1.77	88.4	60.0	140
1,2,4-trichlorobenzene	2	1.73	86.3	60.0	140
1,1,1-trichloroethane	2	1.86	93.0	60.0	140
1,1,2-trichloroethane	2	1.83	91.5	60.0	140
trichloroethene	2	2.42	121.0	60.0	140
trichlorofluoromethane	2	2.30	114.8	60.0	140
1,2,3-trichloropropane	2	1.65	82.3	60.0	140
1,2,4-trimethylbenzene	2	1.78	88.8	60.0	140
1,3,5-trimethylbenzene	2	1.81	90.5	60.0	140
vinyl chloride	2	2.26	113.2	60.0	140
m/p-xylene	4	3.59	89.8	60.0	140
o-xylene	2	1.85	92.5	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: JF

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0316327.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
benzene	10	10.22	102.2	60.0	140
bromobenzene	10	10.81	108.1	60.0	140
bromochloromethane	10	10.27	102.7	60.0	140
bromodichloromethane	10	10.10	101.0	60.0	140
bromoform	10	10.29	102.9	60.0	140
bromomethane	10	9.39	93.9	60.0	140
n-butylbenzene	10	10.10	101.0	60.0	140
sec-butylbenzene	10	9.92	99.2	60.0	140
tert-butylbenzene	10	10.22	102.2	60.0	140
carbon tetrachloride	10	10.13	101.3	60.0	140
chlorobenzene	10	10.48	104.8	60.0	140
chloroethane	10	9.88	98.8	60.0	140
chloroform	10	10.05	100.5	60.0	140
chloromethane	10	10.01	100.1	60.0	140
2-chlorotoluene	10	10.40	104.0	60.0	140
4-chlorotoluene	10	10.19	101.9	60.0	140
dibromochloromethane	10	10.41	104.1	60.0	140
1,2-dibromomethane	10	10.31	103.1	60.0	140
dibromomethane	10	10.22	102.2	60.0	140
1,2-dichlorobenzene	10	10.05	100.5	60.0	140
1,3-dichlorobenzene	10	9.99	99.9	60.0	140
1,4-dichlorobenzene	10	10.17	101.7	60.0	140
dichlorodifluoromethane	10	20.73	207.3 *	60.0	140
1,1-dichloroethane	10	9.62	96.2	60.0	140
1,2-dichloroethane	10	10.06	100.6	60.0	140
1,1-dichloroethene	10	10.60	106.0	60.0	140
cis-1,2-dichloroethene	10	9.71	97.1	60.0	140
trans-1,2-dichloroethene	10	9.78	97.8	60.0	140
1,2-dichloropropane	10	10.37	103.7	60.0	140
1,3-dichloropropane	10	10.32	103.2	60.0	140
2,2-dichloropropane	10	9.14	91.4	60.0	140
1,1-dichloropropene	10	10.51	105.1	60.0	140
cis-1,3-dichloropropene	10	10.12	101.2	60.0	140
trans-1,3-dichloropropene	10	9.60	96.0	60.0	140
diisopropyl ether	10	9.98	99.8	60.0	140
ethylbenzene	10	10.25	102.5	60.0	140
hexachlorobutadiene	10	9.70	97.0	60.0	140
isopropylbenzene	10	10.25	102.5	60.0	140
4-isopropyltoluene	10	10.17	101.7	60.0	140
methyl-tert-butyl ether	10	9.93	99.3	60.0	140
methylene chloride	10	9.31	93.1	60.0	140

Results for 6210D 10ppb QC check

Analyst: JTF
Matrix: Water

Date Analyzed: 03/16/05
File: 0316327.D

Compound	Amount Spiked	Amount Recovered	% recovery	Limits Lower	Limits Upper
naphthalene	10	10.81	108.1	60.0	140
n-propyl benzene	10	10.24	102.4	60.0	140
styrene	10	10.24	102.4	60.0	140
1,1,1,2-tetrachloroethane	10	10.31	103.1	60.0	140
1,1,2,2-tetrachloroethane	10	10.02	100.2	60.0	140
tetrachloroethene	10	10.64	106.4	60.0	140
toluene	10	10.38	103.8	60.0	140
1,2,3-trichlorobenzene	10	10.10	101.0	60.0	140
1,2,4-trichlorobenzene	10	10.16	101.6	60.0	140
1,1,1-trichloroethane	10	10.01	100.1	60.0	140
1,1,2-trichloroethane	10	10.32	103.2	60.0	140
trichloroethene	10	9.96	99.6	60.0	140
trichlorofluoromethane	10	10.21	102.1	60.0	140
1,2,3-trichloropropane	10	9.25	92.5	60.0	140
1,2,4-trimethylbenzene	10	10.20	102.0	60.0	140
1,3,5-trimethylbenzene	10	10.26	102.6	60.0	140
vinyl chloride	10	9.73	97.3	60.0	140
m/p-xylene	20	20.61	103.0	60.0	140
o-xylene	10	10.41	104.1	60.0	140

Flags: * = Out of limits.
NA = Not applicable

Reviewed By: JTF

Results for Laboratory Control Spike (LCS)
by GC/MS

Lab Sample ID: lcs3031605b
Analyst: JTF
Batch ID: 3031605

Date Analyzed: 16 Mar 2005 10:55 pm
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.99	99.9	77.4	123
chlorobenzene	5.0	5.02	100.3	72.5	128
1,1-dichloroethene	5.0	5.18	103.5	71.7	128
toluene	5.0	4.97	99.4	75.9	124
trichloroethene	5.0	5.13	102.5	77.9	122

Comments:
Concentration values are on column amount.

Flags:
* = Out of limits.
NA = Not applicable

Reviewed By: JTF

VO42.072303.1

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g546-25-1a x20
Batch ID: 3031605

Date Analyzed: 17 Mar 2005 7:47 am
Matrix: water
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	5	113.4	106.2	61.6	135	6.6	30
chlorobenzene	BQL	5	112.7	103.4	77.2	118	8.6	30
1,1-dichloroethene	BQL	5	115.3	108.5	64.4	130	6.1	30
toluene	BQL	5	111.9	103.7	66.4	128	7.6	30
trichloroethene	BQL	5	113.0	106.5	84.9	136	5.9	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: JTF

VO43.072303.1

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3031605D
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	3/16/2005	
Bromobenzene	BQL	0.500	0.199	1	3/16/2005	
Bromochloromethane	BQL	0.500	0.312	1	3/16/2005	
Bromodichloromethane	BQL	0.500	0.195	1	3/16/2005	
Bromoform	BQL	0.500	0.116	1	3/16/2005	
Bromomethane	BQL	0.500	0.398	1	3/16/2005	
n-Butylbenzene	BQL	0.500	0.262	1	3/16/2005	
sec-Butylbenzene	BQL	0.500	0.234	1	3/16/2005	
tert-Butylbenzene	BQL	0.500	0.181	1	3/16/2005	
Carbon tetrachloride	BQL	0.500	0.150	1	3/16/2005	
Chlorobenzene	BQL	0.500	0.178	1	3/16/2005	
Chloroethane	BQL	0.500	0.373	1	3/16/2005	
Chloroform	BQL	0.500	0.195	1	3/16/2005	
Chloromethane	BQL	0.500	0.457	1	3/16/2005	
2-Chlorotoluene	BQL	0.500	0.204	1	3/16/2005	
4-Chlorotoluene	BQL	0.500	0.198	1	3/16/2005	
Dibromochloromethane	BQL	0.500	0.198	1	3/16/2005	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	3/16/2005	
Dibromomethane	BQL	0.500	0.276	1	3/16/2005	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	3/16/2005	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	3/16/2005	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	3/16/2005	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	3/16/2005	
1,1-Dichloroethane	BQL	0.500	0.201	1	3/16/2005	
1,1-Dichloroethene	BQL	0.500	0.159	1	3/16/2005	
1,2-Dichloroethane	BQL	0.500	0.223	1	3/16/2005	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	3/16/2005	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	3/16/2005	
1,2-Dichloropropane	BQL	0.500	0.132	1	3/16/2005	
1,3-Dichloropropane	BQL	0.500	0.163	1	3/16/2005	
2,2-Dichloropropane	BQL	0.500	0.263	1	3/16/2005	
1,1-Dichloropropene	BQL	0.500	0.176	1	3/16/2005	
Dichlorodifluoromethane	BQL	5.00	0.459	1	3/16/2005	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	3/16/2005	
Ethylbenzene	BQL	0.500	0.183	1	3/16/2005	
Hexachlorobutadiene	BQL	0.500	0.406	1	3/16/2005	
Isopropylbenzene	BQL	0.500	0.163	1	3/16/2005	
4-Isopropyltoluene	BQL	0.500	0.203	1	3/16/2005	
Methylene chloride	BQL	5.00	0.176	1	3/16/2005	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	3/16/2005	
Naphthalene	BQL	0.500	0.259	1	3/16/2005	
n-Propyl benzene	BQL	0.500	0.203	1	3/16/2005	
Styrene	BQL	0.500	0.235	1	3/16/2005	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	3/16/2005	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	3/16/2005	

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3031605D
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Tetrachloroethene	BQL	0.500	0.219	1	3/16/2005	
Toluene	BQL	0.500	0.154	1	3/16/2005	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	3/16/2005	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	3/16/2005	
Trichloroethene	BQL	0.500	0.201	1	3/16/2005	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	3/16/2005	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	3/16/2005	
Trichlorofluoromethane	BQL	0.500	0.481	1	3/16/2005	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	3/16/2005	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	3/16/2005	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	3/16/2005	
Vinyl chloride	BQL	0.500	0.464	1	3/16/2005	
m-,p-Xylene	BQL	1.00	0.388	1	3/16/2005	
o-Xylene	BQL	0.500	0.156	1	3/16/2005	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.3	103
1,2-Dichloroethane-d4	10	9.88	99
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-1e

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	95

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-2e

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW03
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	98

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-3e

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	98

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-4e

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-BB47
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	96

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-5e

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/14/05
Date Analyzed	03/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	99

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g546-27-6e

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/17/04 PID Initial Calibration Date: 12/17/04

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	4.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.993	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	6.8	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 03/14/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	3.0
C_9-C_{12} Aliphatics	500	50	-0.1
C_9-C_{10} Aromatics	500	50	-3.5

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	99
Aromatic Surrogate % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G546-27-1J

Reviewed By: SF

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/19/05
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	85
Aromatic Surrogate % Recovery	75
Fractionation Surrogate 1 % Recovery	64

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G546-27-2J

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW03
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	92

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-27-3L

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	88
Aromatic Surrogate % Recovery	80

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-27-4J

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-BB47
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	62

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-27-5J

Reviewed By: JF

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Engineering & Environment, Inc.

Project Name: BB293

Sample Information and Analytical Results	
Sample Identification	USTBB293-DUP
Sample Matrix	Water
Date Collected	03/08/05
Date Received	03/09/05
Date Extracted	03/11/05
Date Analyzed	03/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	92

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G546-27-6J

Reviewed By:

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 03/14/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	8.10	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	5.1	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	9.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 03/16/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	9.6
C_{19}-C_{36} Aliphatics	160	6.0
C_{11}-C_{22} Aromatics	340	-7.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 03/14/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	8.10	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	5.1	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	9.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 03/18/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	12.2
C_{19}-C_{36} Aliphatics	160	8.8
C_{11}-C_{22} Aromatics	340	6.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW01
Client Project ID: BB293
Lab Sample ID: G546-27-1I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 10:05
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW01
Client Project ID: BB293
Lab Sample ID: G546-27-1I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 10:05
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	5	4.3	85
4-Terphenyl-d14	10	9.9	99

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: JF

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW01
Client Project ID: BB293
Lab Sample ID: G546-27-1I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 10:05
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.42			2180
2	Know compound peak (added by lab)	11.33			11.7
3	Unknown	5.68			7.9
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: MF

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW06
Client Project ID: BB293
Lab Sample ID: G546-27-2I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 10:50
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW06
Client Project ID: BB293
Lab Sample ID: G546-27-2I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 10:50
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.3	63
2-Fluorophenol	10	6.3	63
Nitrobenzene-d5	10	6.3	63
Phenol-d6	10	6.6	66
2,4,6-Tribromophenol	5	3.6	72
4-Terphenyl-d14	10	7.2	72

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW06
Client Project ID: BB293
Lab Sample ID: G546-27-2I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 10:50
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.40			921
2	Know compound peak (added by lab)	11.33			16.8
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW03
Client Project ID: BB293
Lab Sample ID: G546-27-3I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 11:30
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW03
Client Project ID: BB293
Lab Sample ID: G546-27-3I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 11:30
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	8.9	89
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	5	4.2	84
4-Terphenyl-d14	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: AF

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW03
Client Project ID: BB293
Lab Sample ID: G546-27-3I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 11:30
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.40			1230
2	Know compound peak (added by lab)	11.33			12.5
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: MF

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW04
Client Project ID: BB293
Lab Sample ID: G546-27-4I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 12:20
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-MW04
Client Project ID: BB293
Lab Sample ID: G546-27-4I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 12:20
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	8.6	86
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	5	4.7	94
4-Terphenyl-d14	10	11.2	112

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW04
Client Project ID: BB293
Lab Sample ID: G546-27-4I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 12:20
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.40			1230
2	Know compound peak (added by lab)	11.33			9.48
3	Unknown	5.68			5.81
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: JF

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-27-5I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 14:20
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-27-5I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 14:20
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
2-Fluorophenol	10	10	100
Nitrobenzene-d5	10	10.8	108
Phenol-d6	10	10.5	105
2,4,6-Tribromophenol	5	5.2	104
4-Terphenyl-d14	10	12.2	122

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-BB47
Client Project ID: BB293
Lab Sample ID: G546-27-5I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 14:20
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.41			1470
2	Know compound peak (added by lab)	11.33			8.88
3	Unknown	5.68			7.85
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: JF

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-27-6I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-27-6I
Lab Project ID: G546-27

Analyzed By: MRC
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Date Extracted: 3/11/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	89
2-Fluorophenol	10	9.5	95
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	9.6	96
2,4,6-Tribromophenol	5	4.7	95
4-Terphenyl-d14	10	10.5	105

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-DUP
Client Project ID: BB293
Lab Sample ID: G546-27-6I
Lab Project ID: G546-27
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 3/8/2005 0:00
Date Received: 3/9/2005
Date Analyzed: 3/15/2005
Date Extracted: 3/11/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.42			1430
2	Know compound peak (added by lab)	11.33			12.2
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2509
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 3/11/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	3/15/2005	
Acenaphthylene	BQL	10.0	1.12	1	3/15/2005	
Anthracene	BQL	10.0	1.75	1	3/15/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	3/15/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	3/15/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	3/15/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	3/15/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	3/15/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	3/15/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	3/15/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	3/15/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	3/15/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	3/15/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	3/15/2005	
2-Chlorophenol	BQL	10.0	4.22	1	3/15/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	3/15/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	3/15/2005	
Chrysene	BQL	10.0	1.11	1	3/15/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	3/15/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	3/15/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	3/15/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	3/15/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	3/15/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	3/15/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	3/15/2005	
Diethylphthalate	BQL	10.0	1.48	1	3/15/2005	
Dimethylphthalate	BQL	10.0	1.04	1	3/15/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	3/15/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	3/15/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	3/15/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	3/15/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	3/15/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	3/15/2005	
Fluoranthene	BQL	10.0	1.41	1	3/15/2005	
Fluorene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	3/15/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	3/15/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	3/15/2005	
Hexachloroethane	BQL	10.0	1.58	1	3/15/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	3/15/2005	
Isophorone	BQL	10.0	1.27	1	3/15/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB2509
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 3/11/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Naphthalene	BQL	10.0	1.08	1	3/15/2005	
Nitrobenzene	BQL	10.0	1.32	1	3/15/2005	
2-Nitrophenol	BQL	10.0	3.52	1	3/15/2005	
4-Nitrophenol	BQL	50.0	3.17	1	3/15/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	3/15/2005	
N-Nitrosodiphenylamine	BQL	10.0	1.53	1	3/15/2005	
Pentachlorophenol	BQL	50.0	2.83	1	3/15/2005	
Phenanthrene	BQL	10.0	1.38	1	3/15/2005	
Phenol	BQL	10.0	3.38	1	3/15/2005	
Pyrene	BQL	10.0	2.08	1	3/15/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	3/15/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	3/15/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.4	64
2-Fluorophenol	10	6.6	66
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.9	69
2,4,6-Tribromophenol	5	3.4	69
4-Terphenyl-d14	10	7.4	74

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: AF

Results For Water Laboratory Control Standard (LCS)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-LCS-2520
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 03/15/05
Analyzed By: MRC

	Spiked	LCS	LCS	LIMITS	
	ng	ng	% Rec.	LOWER	UPPER
Acenaphthylene	10	12.28	123	55	126
4-Chloro-3-methylphenol	10	11.33	113	43	124
2-Chlorophenol	10	7.69	77	53	100
1,4-Dichlorobenzene	10	4.40	44	23	94
2,4-Dinitrotoluene	10	12.08	121	46	130
N-Nitrosodi-n-propylamine	10	10.07	101	51	117
4-Nitrophenol	10	12.22	122	21	162
Pentachlorophenol	10	9.46	95	35	108
Phenol	10	8.52	85	51	108
Pyrene	10	11.68	117	57	140
1,2,4-Trichlorobenzene	10	7.73	77	44	106

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: 

Results For Water Matrix Spike / Matrix Spike Duplicate (MS/MSD)
by GCMS

Client Sample ID: Batch QC
Client Project ID:
Lab Sample ID: W-MS-2509
Lab Project ID:
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 03/15/05
Analyzed By: MRC
Dilution: 1

	Sample	Spiked	MS	MSD	Limits		RPD	Limit
					Lower	Upper		Max.
	ng	ng	%	%	%	%	%	%
Acenaphthylene	BQL	10	133 *	104	56	121	24.6	30
4-Chloro-3-methylphenol	BQL	10	123 *	97	53	112	23.8	30
2-Chlorophenol	BQL	10	109 *	86	52	101	23.6	30
1,4-Dichlorobenzene	BQL	10	68	58	40	86	15.9	30
2,4-Dinitrotoluene	BQL	10	125 *	99	55	116	22.6	30
N-Nitrosodi-n-propylamine	BQL	10	124 *	96	53	115	25.4	30
4-Nitrophenol	BQL	10	130	101	40	149	25.4	30
Pentachlorophenol	BQL	10	101	82	40	117	21.2	30
Phenol	BQL	10	109	86	47	112	23.4	30
Pyrene	BQL	10	119	97	61	130	20.6	30
1,2,4-Trichlorobenzene	BQL	10	106 *	86	50	99	20.9	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: AF

Results for Metals

Client Sample ID:	USTBB293-MW01	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 10:05
Lab Sample ID:	G546-27-1	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000590**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: MET_LIMS_3 1

Results for Metals

Client Sample ID:	USTBB293-MW06	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 10:50
Lab Sample ID:	G546-27-2	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000990**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

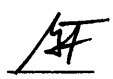
Reviewed By:

Results for Metals

Client Sample ID:	USTBB293-MW03	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 11:30
Lab Sample ID:	G546-27-3	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.00161**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: 
MET_LIMS_3.1

Results for Metals

Client Sample ID:	USTBB293-MW04	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 12:20
Lab Sample ID:	G546-27-4	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	BQL	0.0100	0.000310	1	MG/L	6010B	3/22/05	B
Lead	**0.00121**	0.0100	0.00121	1	MG/L	6010B	3/22/05	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: _____
MET_LIMS_3.1

Results for Metals

Client Sample ID:	USTBB293-BB47	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 14:20
Lab Sample ID:	G546-27-5	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000330**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	**0.00138**	0.0100	0.00121	1	MG/L	6010B	3/22/05	J

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By:

MET_LIMS_3.1

Results for Metals

Client Sample ID:	USTBB293-DUP	Analyzed By:	RML
Client Project ID:	BB293	Date Collected:	3/8/2005 00:00
Lab Sample ID:	G546-27-6	Date Received:	3/9/05
Lab Project ID:	G546-27	Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000400**	0.0100	0.000310	1	MG/L	6010B	3/22/05	JB
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By:
MET_LIMS_3.1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb2495	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	2495		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	**0.000330**	0.0100	0.000310	1	MG/L	6010B	3/22/05	J
Lead	BQL	0.0100	0.00121	1	MG/L	6010B	3/22/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
Sample prepared by SM 3030C.

Reviewed By: AF
MET_LIMS_3.1

MS/MSD Results for METALS

Lab ID: G546-25-1
MS Lab ID: G546-25-1
MSD Lab ID: G546-25-1
ICP Batch: 2495
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.00053	0.400	0.343	85.6	0.400	0.372	92.9	75	125	8.11	20
Lead	BQL	0.400	0.362	90.5	0.400	0.387	96.8	75	125	6.68	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: SF

METALS Results for LCS/LCD

ICP Batch: 2495
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Chromium	0.400	0.350	87.5	0.357	89.3	80	120	1.98	20
Lead	0.400	0.352	88.0	0.358	89.5	80	120	1.69	20

Reviewed By:

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 43622

Page _____ **of** _____

Client: Engineering + Environment.
Address: 824 Gumbranch Rd Suite 5
Address: Jacksonville NC
Quote #: _____

Project ID: BB293
Contact: Bill Morris
Phone: 910-989-3214
Fax: 910-989-3341

Date: 3/9/05
Turnaround: Standard
Job Number: _____
P.O. Number: _____

Report To: _____

Invoice To: _____

Sample ID	Date	Time	Matrix	Preservatives				Analyses										Comments: Please specify any special reporting requirements
				HCl	HNO3	none		6210D	VPH	EPH	625 w/10 TICs	3030C Lead + Cr						
UST BB293-MW01	3/8/05	10:05	GW	6	1	1		3	2	1	1	1						
UST BB293-MW06	3/8/05	10:50	GW	6	1	1		3	2	1	1	1						G546-27
UST BB293-MW03	3/8/05	11:30	GW	6	1	1		3	2	1	1	1						
UST BB293-MW04	3/8/05	12:20	GW	6	1	1		3	2	1	1	1						
UST BB293-BB47	3/8/05	14:20	GW	6	1	1		3	2	1	1	1						
UST BB293-DUP	3/8/05	-	GW	6	1	1		3	2	1	1	1						
Trip blank	3/8/05	15:30																

Relinquished By	Date	Time	Received By	Date	Time	Temperature
Bob Sellers	3/8/05	15:30	Julie Johnson	3/9/05	1000	0.4°C, 2.4°C

State Certification Requested
NC _____ SC _____ Other _____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

APPENDIX C

SUMMARY OF HISORICAL GROUNDWATER QUALITY ANALYTICAL DATA

TABLE 2A (Page 2 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS –
PURGE AND TRAP CAPILLARY COLUMN GC/MS
EPA METHOD 6210D

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

		Sample Identification and Date Sampled				
ANALYTE (ug/L)	**GCL NCGWQS**	**BB293-6 8/16/00**	**BB293-3D 8/16/00**			
Chloroform	NE 0.19	<.5	<.5			
1,2,4-Trimethylbenzene	28,500 350	<.5	<.5			
1,3,5-Trimethylbenzene	25,000 350	<.5	<.5			
Naphthalene	15,500 21	<.5	<.5			
Ethylbenzene	29,000 29	1	<.5			
Isopropylbenzene	25,000 70	0.5	<.5			
All Other Analytes	Varies	<PQL	<PQL			

GCL = Gross Contaminant Level, January 2, 1998 – NCDENR Guidelines.
<PQL = Less than the Practical Quantitation Limit, analyte specific quantitation limits vary.

TABLE 2B (Page 1 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS – MADEP VPH/EPH

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ANALYTICAL FRACTION (ug/L)	Sample Identification and Date Sampled					
	BB293-1 8/16/00	BB293-2 8/16/00	BB293-3 8/17/00	BB293-4 8/17/00	BB293-5 8/16/00	BB293-6 8/16/00
VPH						
C_5 - C_8 Aliphatics	<100	<100	<100	<100	<100	<100
C_9 - C_{12} Aliphatics	<100	<100	<100	<100	270	<100
C_9 - C_{10} Aromatics	<100	<100	<100	<100	<100	<100
EPH						
C_9 – C_{18} Aliphatics	<100	<100	<100	<100	240	120
C_{19} – C_{36} Aliphatics	<100	<100	<100	<100	110	<100
C_{11} - C_{22} Aromatics	<100	<100	<100	<100	220	180

< = Less than the practical quantitation limit

TABLE 2B (Page 2 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS – MADEP VPH/EPH

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

	Sample Identification and Date Sampled	
ANALYTICAL FRACTION (ug/L)	**BB293-6D 8/16/00**	**TRIP BLANK 8/16/00**
VPH		
C_5 - C_8 Aliphatics	<100	<100
C_9 - C_{12} Aliphatics	<100	<100
C_9 - C_{10} Aromatics	<100	<100
EPH		
C_9 – C_{18} Aliphatics	NR	NR
C_{19} – C_{36} Aliphatics	NR	NR
C_{11} - C_{22} Aromatics	NR	NR

< = Less than the practical quantitation limit
NR = Not Required

TABLE 2D

SUMMARY OF GROUND WATER LABORATORY RESULTS – TOTAL METALS – EPA METHOD 6010B

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

		Sample Identification and Date Sampled					
ANALYTE (ug/L)	**GCL NCGWQS**	**BB293-1 8/16/00**	**BB293-2 8/16/00**	**BB293-3 8/16/00**	**BB293-4 8/16/00**	**BB293-5 8/16/00**	**BB293-6 8/16/00**
Lead	15 0.015	<10.0	13.7	10.8	<10.0	<10.0	14.3
Chromium	50 0.050	<10.0	10.3	<10.0	<10.0	<10.0	<10.0

<PQL = Less than the Practical Quantitation Limit (Compound specific quantitation limits vary.)
GCL = Gross Contaminant Level, January 2, 1998 – NCDENR Guidelines
Shading indicates concentration above NCAC T15A:02L Ground Water Quality Standards

(EEI note: Analyte concentrations are expressed in micrograms per liter; Gross Contaminant Levels and North Carolina Groundwater Quality levels are expressed in milligrams per liter; none of the above analyte concentrations exceed either standard.)

TABLE 2E (Page 1 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS – BASE/NEUTRAL AND ACIDS (GC/MS) EPA METHOD 625

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

		Sample Identification and Date Sampled				
ANALYTE (ug/L)	**GCL NCGWQS**	**BB293-1 8/16/00**	**BB293-2 8/16/00**	**BB293-3 8/16/00**	**BB293-4 8/16/00**	**BB293-5 8/16/00**
Naphthalene	15,500 21	<10	<10	<10	<10	75
All Other List Analytes	Varies	< PQL	< PQL	< PQL	< PQL	< PQL

GCL = Gross Contaminant Level, January 2, 1998 – NCDENR Guidelines
<PQL = Less than the laboratory practical quantitation limit, analyte specific quantitation limits vary
Shading indicates concentration above NCAC T15A:02L Interim Standards.

TABLE 2A (Page 1 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS – PURGE AND TRAP CAPILLARY COLUMN GC/MS EPA METHOD 6210D

BUILDING BB-293 MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

		Sample Identification and Date Sampled				
ANALYTE (ug/L)	**GCL NCGWQS**	**BB293-1 8/16/00**	**BB293-2 8/16/00**	**BB293-3 8/16/00**	**BB293-4 8/16/00**	**BB293-5 8/16/00**
Chloroform	NE 0.19	<.5	<.5	<.5	<.5	120
1,2,4-Trimethylbenzene	28,500 350	<.5	<.5	<.5	1	42
1,3,5-Trimethylbenzene	25,000 350	<.5	<.5	<.5	<.5	9
Naphthalene	15,500 21	<.5	<.5	<.5	1	96
Ethylbenzene	29,000 29	<.5	<.5	<.5	<.5	9
Isopropylbenzene	25,000 70	<.5	<.5	<.5	<.5	<.5
All Other Analytes	Varies	<PQL	<PQL	<PQL	<PQL	<PQL

GCL = Gross Contaminant Level, January 2, 1998 – NCDENR Guidelines.
<PQL = Less than the Practical Quantitation Limit, analyte specific quantitation limits vary.
Shading indicates concentration above NCAC T15A:02L Interim Standards

TABLE 2E (Page 2 of 2)

SUMMARY OF GROUND WATER LABORATORY RESULTS –
BASE/NEUTRAL AND ACIDS (GC/MS)
EPA METHOD 625

BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

		Sample Identification and Date Sampled	
ANALYTE (ug/L)	GCL NCGWQS	BB293-6 8/16/00	BB293-4D 8/16/00
Naphthalene	15,500 21	<10	<10
All Other Analytes	Varies	< PQL	< PQL

GCL = Gross Contaminant Level, January 2, 1998 – NCDENR Guidelines
<PQL = Less than the laboratory practical quantitation limit, analyte specific quantitation limits vary
Shading indicates concentration above NCAC T15A:02L Interim Standards.

TABLE 5.3A (Page 1 of 2)

SUMMARY OF LABORATORY ANALYTICAL RESULTS* -
MONITORING WELL GROUND WATER SAMPLES

DRINKING WATER VOLATILES - EPA METHOD 502.2

UST BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

	NC GROUND WATER STANDARD*	BB293-1	BB293-2	BB293-3	BB293-4
DATE SAMPLED		8/15/96	8/15/96	8/15/96	8/15/96
ANALYTE					
Dichlorodifluoromethane	1,400	BDL	BDL	BDL	BDL
Chlorobenzene	50	BDL	BDL	BDL	BDL
Chloroform	0.19	9.0	BDL	1.8	BDL
Dibromochloromethane	NE	BDL	BDL	BDL	BDL
Toluene	1000	BDL	BDL	BDL	BDL
Bromodichloromethane	0.6	BDL	BDL	BDL	BDL
Ethylbenzene	29	BDL	BDL	BDL	BDL
m,p-Xylene	530	BDL	BDL	BDL	BDL
o-Xylene	530	BDL	BDL	BDL	BDL
Isopropylbenzene	NE	BDL	BDL	BDL	BDL
n-Propylbenzene	NE	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	NE	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	NE	BDL	BDL	BDL	BDL
sec-Butylbenzene	NE	BDL	BDL	BDL	BDL
p-Isopropyltoluene	NE	BDL	BDL	BDL	BDL
n-Butylbenzene	NE	BDL	BDL	BDL	BDL
tert-Butylbenzene	NE	BDL	BDL	BDL	BDL
Naphthalene	21	BDL	BDL	BDL	BDL
All other compounds**	varies	BDL	BDL	BDL	BDL
TOTALS		9.0	BDL	1.8	BDL

* = All results in ug/L (ppb)
** = All compounds listed in Laboratory Analytical Reports in Appendix I.
NE = Numerical value not established; therefore standard is equivalent to the method detection limit.
BDL = Below Detection Limits
Shaded areas indicate concentrations above NCAC T15A:02L standards.
Interim maximum allowable concentrations for naphthalene have been proposed by the NCDEHNR and have been applied to this investigation.

TABLE 5.3A (Page 2 of 2)

SUMMARY OF LABORATORY ANALYTICAL RESULTS* -
MONITORING WELL GROUND WATER SAMPLES

DRINKING WATER VOLATILES - EPA METHOD 502.2

UST BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

	NC GROUND WATER STANDARD*	BB293-5	BB293-6	BB293-GWW	BLANK	COMPOSITE	TAP
DATE SAMPLED		8/15/96	8/15/96	10/28/96	8/15/96	8/15/96	8/15/96
ANALYTE							
Dichlorodifluoromethane	1,400	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	50	BDL	BDL	BDL	BDL	BDL	0.8
Chloroform	0.19	BDL	0.7	BDL	1.4	1.1	24.8
Dibromochloromethane	NE	BDL	BDL	BDL	BDL	BDL	5.9
Toluene	1000	0.7	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.6	BDL	BDL	BDL	BDL	BDL	11.2
Ethylbenzene	29	23.2	BDL	BDL	BDL	2.8	BDL
m,p-Xylene	530	48.9	BDL	BDL	BDL	6.8	BDL
o-Xylene	530	2.0	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	NE	12.6	BDL	BDL	BDL	1.5	BDL
n-Propylbenzene	NE	12.0	BDL	BDL	BDL	2.0	BDL
1,3,5-Trimethylbenzene	NE	61.3	BDL	BDL	BDL	9.7	BDL
1,2,4-Trimethylbenzene	NE	212.0	BDL	BDL	BDL	29.4	BDL
sec-Butylbenzene	NE	26.1	BDL	BDL	BDL	4.7	BDL
p-Isopropyltoluene	NE	14.2	BDL	BDL	BDL	2.6	BDL
n-Butylbenzene	NE	67.4	BDL	BDL	BDL	15.2	BDL
tert-Butylbenzene	NE	BDL	BDL	BDL	BDL	10.5	BDL
Naphthalene	21	274.0	BDL	BDL	BDL	2.1	BDL
All other compounds**	varies	BDL	BDL	BDL	BDL	BDL	BDL
TOTALS		754.4	0.7	BDL	1.4	88.4	42.7

* = All results in ug/L (ppb)
** = All compounds listed in Laboratory Analytical Reports in Appendix I.
NE = Numerical value not established; therefore standard is equivalent to the method detection limit.
BDL = Below Detection Limits
Shaded areas indicate concentrations above NCAC T15A:02L standards.
Interim maximum allowable concentrations for naphthalene have been proposed by the NCDEHNR and have been applied to this investigation.

TABLE 5.3B (Page 1 of 2)

SUMMARY OF LABORATORY ANALYTICAL RESULTS* -
MONITORING WELL GROUND WATER SAMPLES

BASE/ NEUTRALS - EPA METHOD 625

UST BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

	NC GROUND WATER STANDARD*	BB293-1	BB293-2	BB293-3	BB293-4	BB293-5
DATE SAMPLED		8/15/96	8/15/96	8/15/96	8/15/96	8/15/96
ANALYTE						
625 BASE/ NEUTRALS						
Naphthalene	21	BQL	BDL	BDL	BQL	110.2
Acenaphthene	80	BQL	BDL	BDL	BQL	BDL
Fluroene	280	BQL	BDL	BDL	BQL	BQL
Phenanthrene	210	BQL	BDL	BDL	BQL	BQL
Anthracene	2100	BQL	BDL	BDL	BQL	BDL
Fluoranthene	280	BQL	BDL	BDL	BQL	BDL
Pyrene	210	BQL	BDL	BDL	BQL	BDL
All other compounds**	varies	BQL	BDL	BDL	BQL	BDL
TOTALS		BQL	BDL	BDL	BQL	110.2

* = All results in ug/L (ppb)
** = All compounds listed in Laboratory Analytical Reports in Appendix I.
BDL = Below Detection Limits
Shaded areas indicate concentrations above NCAC TI5A:02L standards

TABLE 5.3B (Page 2 of 2)

SUMMARY OF LABORATORY ANALYTICAL RESULTS* -
MONITORING WELL GROUND WATER SAMPLES

BASE/ NEUTRALS - EPA METHOD 625

UST BB-293
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

	NC GROUND WATER STANDARD*	BB293-6	BB293-GWW	BLANK	COMPOSITE	TAP
DATE SAMPLED		8/15/96	10/28/96	8/15/96	8/15/96	8/15/96
ANALYTE						
625 BASE/ NEUTRALS						
Naphthalene	21	BDL	BDL	BDL	26.8	BDL
Acenaphthene	80	BDL	BDL	BDL	BDL	BDL
Fluorene	280	BDL	BDL	BDL	BDL	BDL
Phenanthrene	210	BDL	BDL	BDL	BDL	BDL
Anthracene	2100	BDL	BDL	BDL	BDL	BDL
Fluoranthene	280	BDL	BDL	BDL	BDL	BDL
Pyrene	210	BDL	BDL	BDL	BDL	BDL
All other compounds**	varies	BDL	BDL	BDL	BDL	BDL
TOTALS		BDL	BDL	BDL	26.8	BDL

* = All results in ug/L (ppb)
** = All compounds listed in Laboratory Analytical Reports in Appendix I.
BDL = Below Detection Limits
Shaded areas indicate concentrations above NCAC TI5A:02L standards