

FINAL
ANNUAL GROUNDWATER MONITORING REPORT 2006-2007
BUILDING BB-293

NCDENR Incident Number: 32049
Marine Corps Base
Camp Lejeune, North Carolina

April 18, 2007

Prepared for:



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LIST OF ACRONYMS

2000 Guidelines	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater
2001 Guidelines	Guidelines for Assessment and Corrective Action, North Carolina Underground Storage Tank Section (Effective July 1, 2001)
2L GWQS	NCAC T15A:02L Groundwater Quality Standards
AS	Air Sparge
AST	Aboveground Storage Tank
BDL	Below Detection Limit
BN	Base/Neutral (extractables)
BNA	Base/Neutral/Acid (extractables)
BQL	Below Quantitation Limit
BLS	Below Land Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Corrective Action Plan
CFR	Code of Federal Regulations
Cr	Chromium
CSA	Comprehensive Site Assessment
DIPE	Di-isopropyl Ether
DO	Dissolved Oxygen
DOD	Department of Defense
DPT	Direct Push Technology
DWQ	Division of Water Quality
DWM	Division of Waste Management
DTW	Depth to Water
EDB	Ethylene di-bromide
EMD	Environmental Management Division
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
EQB	Environmental Quality Branch
Fe	Iron
FID	Flame Ionization Detector
FT	Feet
GCL	Gross Contaminant Level
GIS	Geographic Information System
GPS	Global Positioning System
Guidelines Vol. II	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater, Volume II, Petroleum Underground Storage Tanks (January 2, 1998)
HDPE	High Density Polyethylene
I/C	Industrial/Commercial
ID	Identification
I&E	Installations and Environment Department
IGWQS	Interim Groundwater Quality Standards
IPE	Isopropyl Ether
LSA	Limited Site Assessment
LUST	Leaking Underground Storage Tank
m	Meter
MADEP	Massachusetts Department of Environmental Protection
MCAS	Marine Corps Air Station

MCB	Marine Corps Base
MDL	Method Detection Limit
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
MSCC	Maximum Soil Contaminant Concentration
MSL	Mean Sea Level
MTBE	Methyl tertiary butyl ether
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
NA	Not Analyzed
N/A	Not Applicable
NAVFAC	Naval Facilities Engineering Command Atlantic
NC	North Carolina
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
NE	None Established
NM	Not Measured
NMT	No Measurable Thickness
NS	Not Sampled
OVA	Organic Vapor Analyzer
PAH	Polynuclear Aromatic Hydrocarbons
Pb	Lead
PPB	Parts Per Billion
PPM	Parts Per Million
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
PVC	Polyvinyl chloride
RBCA	Risk-Based Corrective Action
RCRA	Resource Conservation and Recovery Act
Res	Residential
SOW	Scope of Work
STGW	Soil-to-Groundwater
SVE	Soil Vapor Extraction
SVOC	Semi Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbons
US	United States
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
VPH	Volatile Petroleum Hydrocarbons
WiRO	NCDENR Wilmington Regional Office

EXECUTIVE SUMMARY

Building BB-293 is located in the Courthouse Bay area of Marine Corps Base (MCB) Camp Lejeune near Peach and Middle Streets. The location is the site of an active training facility for field purification of raw water, as well as operation of portable field laundry facilities. A water supply well (hereafter referred to as the pond well) is located onsite in support of training activities. Water from the well is used for training purposes only, not consumption. The former underground storage tank (UST), BB-293-1, which operated from 1983 to 1996, was utilized to store used oil. There were no product delivery lines associated with the tank. Upon closure by removal, soil contaminants were detected in the subsurface.

A comprehensive site assessment (CSA) was performed at the site. Free product was not identified during assessment activities. Sampling results indicated the presence of minimal petroleum hydrocarbon soil and ground water contamination within the former UST basin and adjacent to monitoring well MW05 (BB293-5). The 1998 CSA recommended further investigation of the area near MW05, as well as the preparation of a corrective action plan to address site soil and groundwater contamination.

In order to apply Risk Based Corrective Action (RBCA) rules to the site, an additional site investigation was conducted in 2000. The February 2003 *Leaking Underground Storage Tank, Phase I - Limited Site Assessment and Request For No Further Action Status for Building BB-293* report summarized data from the collection of additional groundwater and soil samples from the site. Based on data collected during the 2000 sampling event and previous investigations, it was proposed that the site met Low Risk criteria with Industrial/Commercial (I/C) cleanup levels. There were no soil contaminants in excess of Maximum Soil Contaminant Concentrations (MSCCs), and groundwater contaminants were below established gross contaminant levels (GCLs). As a result, the report was submitted to the North Carolina Department of Environment and Natural Resources (NCDENR) requesting No Further Action (NFA) for the site.

NCDENR denied the request since the pond well was within 250 feet of the source area. They recommended that the site be put on a monitoring program to include the six site monitoring wells and the pond well. Engineering and Environment Inc. (EEI) began monitoring in 2004 and concluded with an annual monitoring event in October 2005. Naphthalene and C9-C22 Aromatics were the only target analytes detected in groundwater above established North Carolina Groundwater Quality Standards (NCGWQSs) at the site, specifically in MW05. EEI concluded that the site continue being monitored on an annual basis.

The current monitoring program was conducted in November 2006 by Sovereign Consulting Inc. (Sovereign). No measurable free product was identified at the site. Groundwater analysis demonstrates that contaminants are present at levels that exceed NCGWQSs. Sovereign recommends MCB Camp Lejeune continue biennial groundwater monitoring and reporting at the site.

1.0 TITLE PAGE

DATE OF REPORT: April 18, 2007

Facility I.D.: N/A

NCDENR Incident Number: 32049

Site Name: Building BB-293

Site Location: Marine Corps Base Camp Lejeune, North Carolina

Nearest City/Town: Camp Lejeune

County: Onslow

Risk Classification: High Risk

Land Use Classification: Industrial/Commercial

Property Owner: Commanding Officer – MCB Camp Lejeune

I&E/EMD/EQB

PSC Box 20004

Address: MCB Camp Lejeune, NC 28542-0004

Phone: (910) 451-5068

Tank Owner: Same as above

Address: Same as above

Phone: Same as above

Property Occupant: Same as above

Address: MCB Camp Lejeune, NC

Phone: None

Consultant/Contractor: Sovereign Consulting Inc.

Address: 405 Oakmeads Crescent, Suite 1

Virginia Beach, VA 23462

Phone: (757) 456-5093

Release Information

Date Discovered: January 1996

Latitude:

34° 34' 43" N

Longitude:

77° 21' 45" W

Estimated Quantity of Release: Unknown

Cause of Release: Leaking underground storage tank system

Source of Release (Piping/UST): Used oil UST

Sizes and contents of UST system(s) from which the release occurred: The former UST was a 550-gallon used oil tank.



I, Nicole L. Hall, a Professional Engineer for Sovereign Consulting Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

2.0 INTRODUCTION

The purpose of this report is to summarize data from a recent groundwater gauging and sampling event at the Building BB-293 site aboard MCB Camp Lejeune, North Carolina. This data was collected in November 2006. The project's scope of work entailed gauging of six site monitoring wells (each are preceded by the prefix USTBB293) – MW01-MW06, as well as a nearby water supply well, SBB313. The pond well is used to fill a retention pond at the site from which water is pumped for water purification training exercises.

Groundwater samples from the wells were also collected during the November 2006 event. Per the contract task order scope of work, analyses run included EPA Methods 6210D, 625 + 10 largest non-target peaks, the MADEP methods, and metals by method 6010B (with 3030C preparation). Results of Sovereign's 2006 gauging and sampling event are presented in this report.

3.0 SITE HISTORY

Building BB-293 is located in the Courthouse Bay area of MCB Camp Lejeune near Peach and Middle Streets. The area is a training facility for Basic Hygiene Equipment Operations, where raw water purification and portable field laundry activities take place. The nearest active water supply well is BB-47, which is approximately 1,200 feet northwest of the site.

Building BB-293 is a pump shed used for emergency storage of mobile equipment. Former UST BB-293-1, which operated from 1983 to 1996, was a used oil storage tank. Oil and grease constituents were detected in tank closure soil samples; therefore, additional site assessment work was required. According to drawings of the site, it appears there were no fuel lines associated with the tank.

A Comprehensive Site Assessment report, dated December 1998, was completed for the site by Richard Catlin and Associates (now known as CATLIN Engineers and Scientists, CATLIN). Free product was not identified during assessment activities. The CSA identified soil contamination in isolated areas as oil and grease and halogenated and aromatic volatile compounds. Oil and grease contamination was detected in the former UST basin, whereas halogenated and aromatic volatile concentrations were identified in the area of MW05. CATLIN stated that the MW05 area compounds appeared to be petroleum related, but did not seem to be related to the former UST basin.

Groundwater contaminants above NCGWQSs were also identified at the site during the CSA. Three areas of groundwater contamination were reported. Those areas included the former UST basin, an area south of the former UST, and the area around MW05. Trihalomethane compounds, such as chloroform, bromoform, and dibromochloromethane, were also detected in groundwater samples from the site. Trihalomethanes are formed as a byproduct when chlorine or bromine are used to disinfect water for drinking. This site is used as a training facility for raw water field purification, so it is reasonable to conclude that these contaminants originate from the

practice of discharging the treated water to site drainage swales. The 1998 CSA recommended further investigation of the area near MW05, as well as the preparation of a corrective action plan to address site soil and groundwater contamination.

In order to apply RBCA rules to the site, an additional investigation was conducted by CATLIN. The February 2003 *Leaking Underground Storage Tank, Phase I - Limited Site Assessment and Request For No Further Action Status for Building BB-293* report summarized data from the collection of additional groundwater and soil samples from the site. Soil sampling data collected by J.A. Jones Environmental Services in December 2000 from hot spot areas was also incorporated to evaluate the site for No Further Action.

CATLIN collected four soil samples from the former UST basin, and an attempt was made to collect soil from the MW05 area. A soil sample was not obtained from the monitoring well area due to the presence of gravel in the upper two feet, as well as consistently flooded conditions. Samples were analyzed for VOCs, SVOCs, MADEP constituents, and metals. Only lead and chromium were detected in the soil samples. Contaminant concentrations, however, were below soil to groundwater (STGW), residential, and I/C MSCCs. CATLIN concluded that vadose zone soil contamination did not remain in the former UST basin and the immediate vicinity of the basin at concentrations above any of the MSCC standards.

Free product was not detected during the assessment. Groundwater samples from six monitoring wells were analyzed for VOCs, SVOCs, MADEP constituents, and metals. Lead and chromium were not detected above NCGWQSs. Chloroform and naphthalene were detected above groundwater standards in MW05. In addition, MADEP compounds were detected in MW05 and in MW06 above standards. The CATLIN report stated that all concentrations were below GCLs. CATLIN concluded that the site be considered a candidate for NFA since contaminants did not exceed the I/C MSCCs and groundwater GCLs.

NCDENR denied the request for NFA upon submittal of the February 2003 report since the training pond supply well was within site boundaries. NCDENR recommended the implementation of a quarterly monitoring program to include the pond water supply well.

Engineering and Environment, Inc. conducted quarterly monitoring in June 2004, September 2004, December 2004, and March 2005, and an annual gauging and sampling event was later conducted in October 2005. EEI concluded that groundwater contaminant detections varied and were relatively inconsistent. The contaminants that were detected include chromium, lead, 4-isopropyltoluene, and trihalomethanes. EEI indicated their data showed that neither the deep well, nor the pond supply well appeared impacted by the former UST. As of the October 2005 event, MW05 was rendered unusable as it was filled with sediment. EEI recommended that the well be properly abandoned and reinstalled. They also recommended the annual monitoring program be continued.

The current monitoring event was conducted in November 2006. Site activities included well gauging and sampling of the six site monitoring wells, as well as groundwater sampling from the pond supply well, SBB313. Monitoring well MW05 was replaced and is now called MW05A.

This report outlines and describes site activities as performed by Sovereign during the November 2006 gauging and sampling event.

4.0 GAUGING AND SAMPLING RESULTS

The field program for the Building BB-293 site consisted of a one time gauging and groundwater sampling event of six site wells (MW01 through MW06) and one water supply well (pond well, SBB313). Activities were conducted in accordance with NCDENR guidance.

4.1 WELL GAUGING

Monitoring wells MW01 through MW06 were gauged on November 27, 2006. Gauging data is summarized in Table 1. Wells were gauged using an interface probe to measure the depth to water and depth to product (if present). Depth to water (DTW) values ranged from 1.92 feet to 4.22 feet below TOC. No measurable free product was detected at any site well designated for gauging during the 2006 monitoring program.

Top of casing elevations and DTW values from the Type II wells (MW02 – MW06) were used to obtain groundwater elevations at the site. Figure 3 shows shallow groundwater elevations. From the map, groundwater flows generally to the north. While this direction is consistent with that observed from previous investigations, the presence of the drainage swale along with the filling and discharging of the pond influence surficial aquifer flow and introduce variability into site characteristics.

4.2 GROUNDWATER SAMPLING

Groundwater sampling was also conducted at the site. Annual groundwater samples were collected from the site in November 2006. One duplicate sample was collected and two laboratory supplied trip blanks were submitted for analysis. Prior to sampling, wells were purged of one well casing volume of water using a peristaltic pump with connected polyethylene discharge tubing and a low flow purging and sampling procedure. Purging of the wells was completed using the techniques described in the NCDENR UST Section *Guidelines for Sampling, Version 1.2*, dated September 1, 2003. Specifically, Sovereign field personnel follow purging completion criteria detailed in Appendix F of the *Guidelines for Sampling*. One option of these criteria state that adequate purging is achieved when three consecutive measurements in which the three parameters listed below are within the stated limits, dissolved oxygen is no greater than 20 percent of saturation at the field measured temperature, and turbidity is no greater than 20 Nephelometric Turbidity Units (NTUs):

1. Temperature: +/- 0.2° C
2. pH: +/- 0.2 Standard Units
3. Specific Conductance: +/- 5.0% of reading

This method is used, as opposed to purging three well volumes, in order to make the most efficient use of time when sampling. As in any scenario, professional judgment is also relied upon in the field during gauging and sampling events. Water quality indicator parameters

(pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded. If a well purged to dryness, the well was allowed to recharge before sampling.

Samples were collected after purging using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, North Carolina (NC Certification Number 481). The lab tested the groundwater samples for volatiles via EPA method 6210D, semivolatiles using EPA method 625, volatile and extractable petroleum hydrocarbons with the MADEP methods, and metals using Method 6010B with preparation by Method 3030C. Laboratory reports and chain of custody documentation are included in Appendix B.

Tables 2-6 summarize the laboratory analytical results for groundwater samples collected during the November 2006 event. Historical groundwater sampling data from previous annual reports can be found in Appendix A for comparison.

EPA Method 6210D

Volatiles were detected in the groundwater samples from the site. A total of 14 volatile organic compounds were reported. Four (Bromoform, Chloroform, Dibromochloromethane, and 4-Isopropyltoluene) of those 14 were detected at concentrations above the NCGWQSs, but below their corresponding GCLs.

There were 10 contaminants detected by laboratory analysis at concentrations below their 2L groundwater quality standards. Those compounds were benzene, sec-butylbenzene, ethylbenzene, isopropylbenzene, methylene chloride, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes. Again, none of the detected concentrations were above the applicable NCGWQS. Of this group, only toluene, 1,2,4-trimethylbenzene, and total xylenes were observed during the last annual sampling event (EEI October 2005).

Four VOCs were detected at the site above their NCGWQSs during the November event. Monitoring wells MW01, MW02, MW03, and MW06 exhibited concentrations of bromoform at 0.550 µg/L, 0.930 µg/L, 0.680 µg/L, and 0.640 µg/L, respectively. The 2L standard is 0.19 µg/L. Monitoring wells MW03 and MW05A exhibited chloroform at concentrations of 0.710 µg/L and 1.93 µg/L, respectively. The duplicate sample, obtained from MW03, also contained chloroform at a concentration of 0.720 µg/L. The NCGWQS for chloroform is 0.19 µg/L. Dibromochloromethane was also detected at the site above standards. Monitoring wells MW01 and MW02 contained 0.550 µg/L and 0.750 µg/L as compared to the NCGWQS of 0.41 µg/L. Per historical data tables, all three compounds were last detected at the site in MW03 in June 2004 above standards. Trihalomethane compounds, such as chloroform, bromoform, and dibromochloromethane, were detected during the CSA. These contaminants are expected since they are typical byproducts of water purification using chlorination, which is a process used as part of the raw water purification training conducted at the site.

The contaminant, 4-isopropyltoluene (synonymous with p-isopropyltoluene and p-cymene; chemical formula $C_{10}H_{14}$), was also detected at the site in MW05A at a concentration of 0.620 $\mu\text{g/L}$. It is a naturally occurring aromatic organic compound. Currently, this compound does not have an established NCGWQS or GCL; therefore, the standard is the reporting limit. Any detection is considered to be reportable. For comparison purposes, however, the concentration can be compared to the standard for C_9 - C_{22} Aromatics since 4-isopropyltoluene is an aromatic compound. The detected 4-isopropyltoluene concentration of 0.620 $\mu\text{g/L}$ is well below the NCGWQS of 210 $\mu\text{g/L}$.

4-Isopropyltoluene was previously detected during the October 2005 sampling event. The contaminant has been detected at the site in wells MW03, MW04, and MW05(A) throughout historical monitoring events.

EPA Method 625

There were no EPA method 625 target analytes detected during the November 2006 sampling event. Tentatively identified compounds (TICs), however, were detected in each well sampled. Total TIC concentrations are summarized in Table 3. Most TICs were unknown substances, with the exception of hexanedioic acid, bis(2-ethylhexyl) ester and sulfur with 90% and 91% match probabilities.

MADEP Methods

Groundwater samples from the November 2006 sampling event did not exhibit MADEP constituents.

EPA Method 6010B with 3030C preparation

Lead and chromium were detected in site monitoring wells during this sampling event. Chromium ranged from 2.18 $\mu\text{g/L}$ to 3.24 $\mu\text{g/L}$ in site wells as compared to the NCGWQS of 50 $\mu\text{g/L}$. Lead was also detected in wells at concentrations below the standard of 15 $\mu\text{g/L}$. Concentrations ranged between 1.44 $\mu\text{g/L}$ and 4.41 $\mu\text{g/L}$.

5.0 RECEPTOR SURVEY

Sovereign reassessed site conditions during the 2006 gauging and sampling event. The site is currently high risk due to the presence of the pond water supply well, which is used in support of training that is held at the site. There has been no change in receptor impact, and there have been no changes to land use of the site or the immediate surrounding areas.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on historical data, fieldwork, and laboratory analytical data gathered during the current monitoring period, the following conclusions are presented:

1. Previous investigations indicated constituent concentrations in soil are below NCDENR Soil-to-Groundwater Maximum Contaminant Concentrations.

2. Surficial aquifer groundwater flows to the north across the site, consistent with previous investigations. DTW values in site monitoring wells ranged from 1.92 feet to 4.22 feet below TOC.
3. No measurable free product was detected during the November 2006 monitoring event.
4. Toluene, chromium, and lead were detected in the pond well below NCGWQSSs. Water from this well is not consumed and is used for training purposes only.
5. Bromoform, chloroform, dibromochloromethane, and 4-isopropyltoluene were the only groundwater contaminants detected above NCGWQSSs at the site. These contaminants were detected in both shallow (MW02, MW03, MW05A, and MW06) and deep (MW01) monitoring wells.

Since this site is classified by NCDENR as a high risk site due to the close proximity of the training support pond well, Sovereign recommends MCB Camp Lejeune continue biennial groundwater monitoring and reporting at the site.

7.0 REFERENCES

AH Environmental Consultants, *Final Report, Wellhead Protection Plan – 2002 Update, Marine Corps Base, Camp Lejeune*, August 2002.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Comprehensive Site Assessment, UST BB-293, Marine Corps Base, Camp Lejeune, North Carolina*, December 31, 1998.

CATLIN Engineers and Scientists, *Leaking Underground Storage Tank (LUST) Phase I Limited Site Assessment And Request For No Further Action Status Bldg BB-293, Marine Corps Base, Camp Lejeune, North Carolina*, February 26, 2003.

Engineering and Environment, Inc., *Annual Groundwater Monitoring Report, Site BB-293, Marine Corps Base Camp Lejeune, North Carolina*, May 13, 2005.

Engineering and Environment, Inc., *Annual Groundwater Monitoring Report, Site BB-293, Marine Corps Base Camp Lejeune, North Carolina*, December 22, 2005.

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action*, April 2001.

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Sampling, Version 1.2*, September 1, 2003.

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Response Letter to MCBCLNC EMD*, June 2, 2003.

TABLES

TABLE 1
GROUNDWATER ELEVATION AND PRODUCT THICKNESS DATA
NOVEMBER 2006

Incident Number and Name: 32049 - Building BB-293

Monitoring Well	Top of Casing Elevation (feet)	Depth to Water (DTW) (feet)	Groundwater Elevation (feet)	Product Thickness (feet)
		11/27/06	11/27/06	11/27/06
USTBB293-MW01 (Type III)	9.52	4.22	5.30	--
USTBB293-MW02 (Type II)	8.87	1.92	6.95	--
USTBB293-MW03 (Type II)	9.44	2.53	6.91	--
USTBB293-MW04 (Type II)	9.28	2.20	7.08	--
USTBB293-MW05A (Type II)	10.69	3.75	6.94	--
USTBB293-MW06 (Type II)	9.53	2.58	6.95	--
Pond Well (SBB313)	Unknown	NM	Not Calculated	NM

Note: “ --“ = free product not present during gauging event.

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 Date: November 27, 2006
 Incident Number and Name: 32049 – Building BB-293
 Analytical Method: EPA Method 6210D

Contaminant of Concern			Benzene	sec-Butylbenzene	Bromoform	Chloroform	Dibromochloromethane	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes
Well ID	Sample ID	Date Collected														
USTBB293-MW01	USTBB293-MW01	11/27/2006	<0.500	<0.500	0.550	<0.500	0.550	0.230	<0.500	<0.500	1.52	<0.500	1.29	<0.500	<0.500	0.540
USTBB293-MW02	USTBB293-MW02	11/27/2006	<0.500	<0.500	0.930	<0.500	0.750	<0.500	<0.500	<0.500	1.64	<0.500	0.820	<0.500	<0.500	<0.500
USTBB293-MW03	USTBB293-MW03	11/27/2006	<0.500	<0.500	0.680	0.710	0.330	<0.500	<0.500	<0.500	1.72	<0.500	0.780	<0.500	<0.500	<0.500
USTBB293-MW04	USTBB293-MW04	11/27/2006	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	1.55	<0.500	1.02	<0.500	<0.500	<0.500
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	<0.500	0.610	<0.500	1.93	<0.500	0.450	0.310	0.620	0.320	0.580	1.00	1.12	0.210	0.170
USTBB293-MW06	USTBB293-MW06	11/27/2006	0.190	<0.500	0.640	<0.500	0.320	0.220	<0.500	<0.500	1.26	<0.500	1.50	<0.500	<0.500	0.560
Pond Well	SBB313	11/28/2006	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.370	<0.500	<0.500	<0.500
Duplicate	Duplicate	11/27/2006	<0.500	<0.500	0.420	0.720	0.340	<0.500	<0.500	<0.500	3.29	<0.500	0.560	<0.500	<0.500	<0.500
Trip Blank	Trip Blank	11/27/2006	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.440	<0.500	<0.500	<0.500	<0.500	<0.500
2L Standard (µg/l)			1	70	0.19	70	0.41	550	70	NE	4.6	70	1,000	350	350	530
GCL (µg/l)			5,000	8,500	190	70,000	410	84,500	25,000	NE	4,600	30,000	257,500	28,500	25,000	87,500

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- <# = less than the specified laboratory quantitation limit
- **BOLD** = detected contaminant concentration.
- NE = Not established.
- Duplicate sample obtained from MW03.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 Date: November 27, 2006
 Incident Number and Name: 32049 – Building BB-293
Analytical Method: EPA Method 625

Contaminant of Concern →			All Target Analytes	Tentatively Identified Compounds (TICs)
Well ID	Sample ID	Date Collected		
USTBB293-MW01	USTBB293-MW01	11/27/2006	BQL	176.7
USTBB293-MW02	USTBB293-MW02	11/27/2006	BQL	232.1
USTBB293-MW03	USTBB293-MW03	11/27/2006	BQL	54.52
USTBB293-MW04	USTBB293-MW04	11/27/2006	BQL	341
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	BQL	21.05
USTBB293-MW06	USTBB293-MW06	11/27/2006	BQL	9.99
Pond Well	SBB313	11/28/2006	BQL	59.1
Duplicate	Duplicate	11/27/2006	BQL	36.84
2L Standard (µg/l)			Varies	NA
GCL (µg/l)			Varies	NA

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits; see laboratory report for specific limits.
- NA = Not Applicable.
- J = Detected below the laboratory quantitation limit.
- **BOLD** = detected contaminant concentration.
- Duplicate sample obtained from MW03.

TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 Date: November 27, 2006
 Incident Number and Name: 32049 – Building BB-293
 Analytical Method: MADEP Method VPH/EPH

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₂ Aliphatics	C ₉ -C ₁₀ Aromatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics
Well ID	Sample ID	Date Collected						
USTBB293-MW01	USTBB293-MW01	11/27/2006	<100	<100	<100	<100	<100	<100
USTBB293-MW02	USTBB293-MW02	11/27/2006	<100	<100	<100	<100	<100	<100
USTBB293-MW03	USTBB293-MW03	11/27/2006	<100	<100	<100	<100	<100	<100
USTBB293-MW04	USTBB293-MW04	11/27/2006	<100	<100	<100	<100	<100	<100
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	<100	<100	<100	<100	<100	<100
USTBB293-MW06	USTBB293-MW06	11/27/2006	<100	<100	<100	<100	<100	<100
Pond Well	SBB313	11/28/2006	<100	<100	<100	<100	<100	<100
Duplicate	Duplicate	11/27/2006	<100	<100	<100	<100	<100	<100

- All results reported in µg/l
- µg/L =micrograms per liter
- Duplicate sample obtained from MW03.

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 Date: November 27, 2006

Incident Number and Name: 32049 – Building BB-293

Analytical Method: MADEP Method VPH/EPH as compared to NCDENR 2L GWQS

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₉ -C ₂₂ Aromatics	C ₁₉ -C ₃₆ Aliphatics
Well ID	Sample ID	Date Collected				
USTBB293-MW01	USTBB293-MW01	11/27/2006	<100	<200	<200	<100
USTBB293-MW02	USTBB293-MW02	11/27/2006	<100	<200	<200	<100
USTBB293-MW03	USTBB293-MW03	11/27/2006	<100	<200	<200	<100
USTBB293-MW04	USTBB293-MW04	11/27/2006	<100	<200	<200	<100
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	<100	<200	<200	<100
USTBB293-MW06	USTBB293-MW06	11/27/2006	<100	<200	<200	<100
Pond Well	SBB313	11/28/2006	<100	<200	<200	<100
Duplicate	Duplicate	11/27/2006	<100	<200	<200	<100
2L Standard (µg/l)			420	4,200	210	42,000
GCL (µg/l)			NE	NE	NE	NE

- All results reported in µg/l
- µg/L = micrograms per liter
- GCL = Gross Contaminant Level
- NE = Not Established
- Duplicate sample obtained from MW03.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 Date: November 27, 2006
 Incident Number and Name: 32049 – Building BB-293
 Analytical Method: EPA Method 6010B (Pb and Cr)

Contaminant of Concern →			Chromium	Lead
Well ID	Sample ID	Date Collected		
USTBB293-MW01	USTBB293-MW01	11/27/2006	2.18	1.44
USTBB293-MW02	USTBB293-MW02	11/27/2006	3.24	2.46
USTBB293-MW03	USTBB293-MW03	11/27/2006	3.01	1.94
USTBB293-MW04	USTBB293-MW04	11/27/2006	2.71	1.62
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	2.33	1.46
USTBB293-MW06	USTBB293-MW06	11/27/2006	2.49	1.69
Pond Well	SBB313	11/28/2006	2.18	4.41
Duplicate	Duplicate	11/27/2006	2.86	4.28
2L Standard (µg/l)			50	15
GCL (µg/l)			50,000	15,000

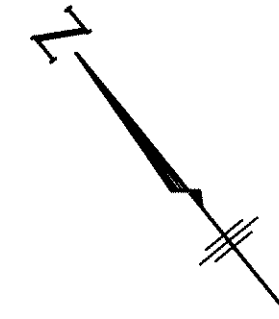
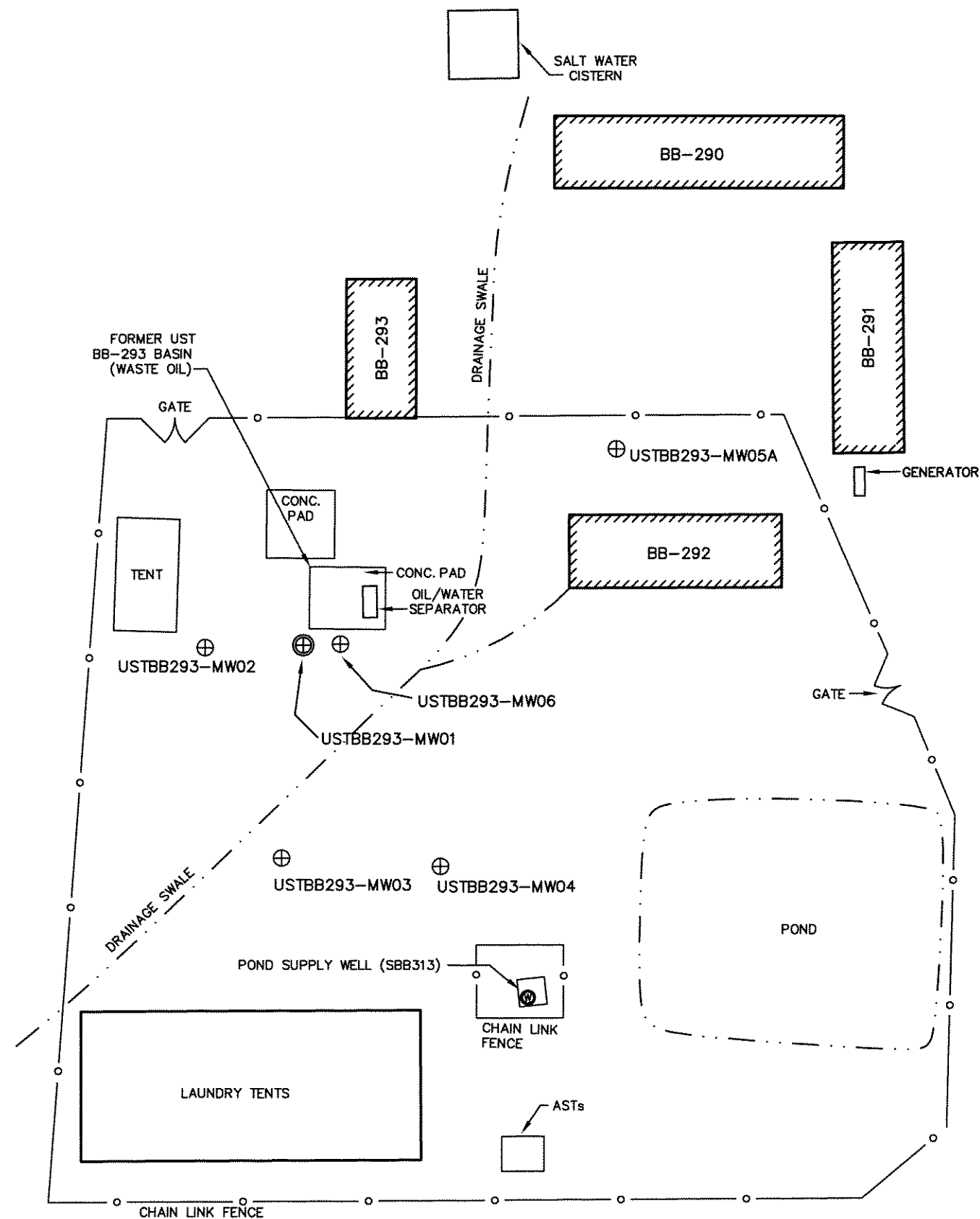
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- <# = less than the specified laboratory quantitation limit
- **BOLD** = detected contaminant concentration.
- Duplicate sample obtained from MW03.

FIGURES



From: USGS New River Inlet, NC. Topographic Quadrangle (Dated 1997)

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDING BB-293 MARINE CORPS BASE CAMP LEJEUNE, N.C.		TITLE SITE VICINITY TOPOGRAPHIC MAP			FIGURE
	JOB NO. 206-063	DATE FEB 2007	SCALE 1"=500'	DRAWN BY KAWS	CHECKED BY MEM	1



LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING
		TYPE II WELL (SHALLOW)
		TYPE III WELL (DEEP)
		POND SUPPLY WELL

40 0 40
SCALE IN FEET

NOTES:

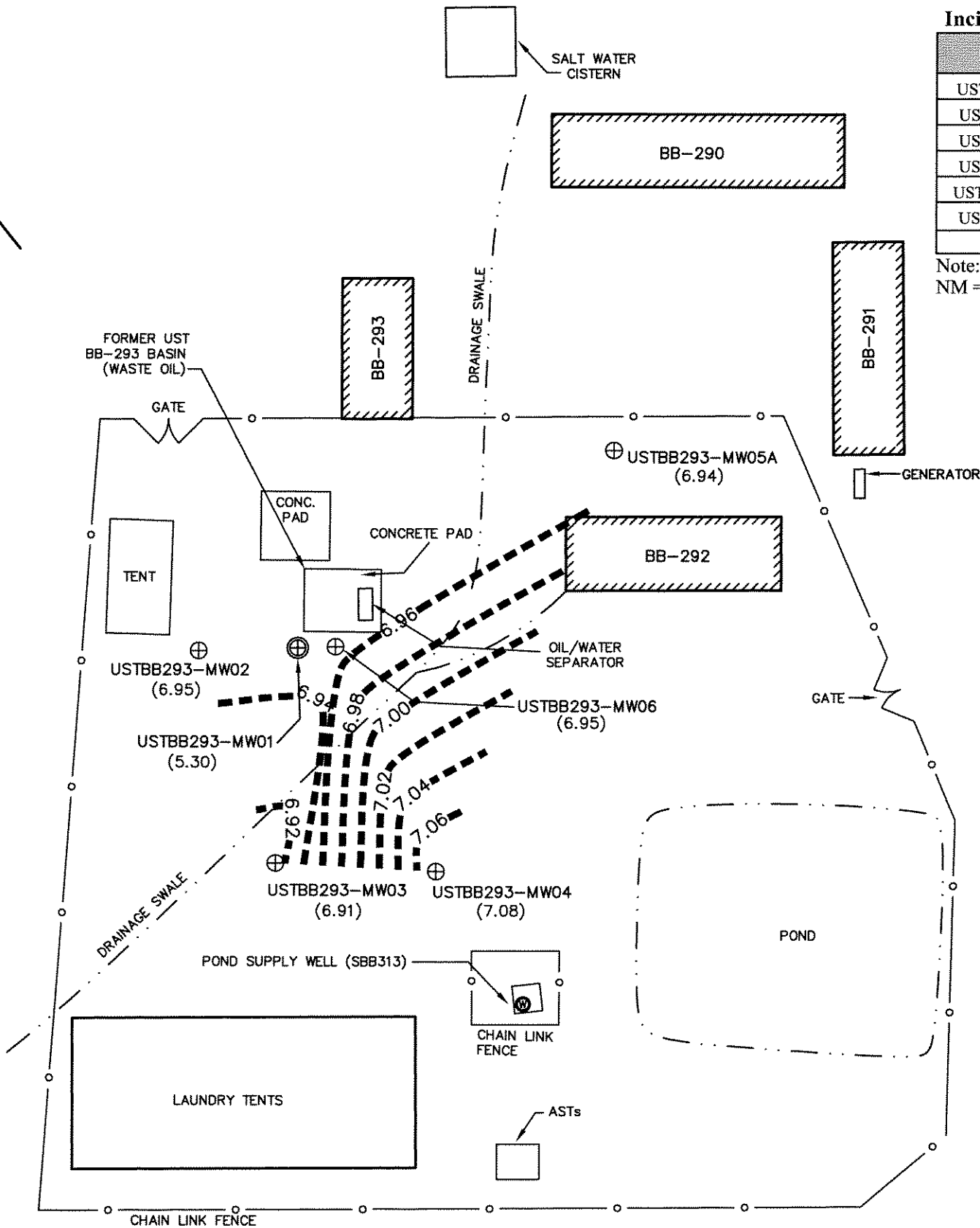
1. VERTICAL DATUM IS BASED ON MILITARY CONTROL MONUMENT PW-31 WHICH IS A 2"Ø BRASS DISK SET IN A 10"Ø CONCRETE MONUMENT SET FLUSH WITH THE GROUND AND HAS AN ELEVATION OF 13.87 FEET BASED ON NGVD 1929 DATUM. PW-31 IS LOCATED 0.6 MILES SOUTH FROM THE INTERSECTION OF SNEADS FERRY AND HORN ROAD AND IS ON THE EAST SIDE OF HORN ROAD. PW-31 IS ALSO LOCATED 5.0 FEET FROM THE SOUTHWEST CORNER OF A CHAIN LINK FENCE AROUND A WATER TANK.
2. FORMER UST BASIN LOCATION IS APPROXIMATE.

	SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDING BB-293 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE SITE MAP WITH MONITORING WELL LOCATIONS		FIGURE 2
		JOB NO. 206-063 DATE: FEB 2007	SCALE: 1"=40'	DRAWN BY: KAWS CHECKED BY: MEM	206063-BB293-FEB07-FIG02

Incident Number and Name: 32049 - Building BB-293

Monitoring Well	Top of Casing Elevation (feet)	Depth to Water (DTW)	Groundwater Elevation (feet)	Product Thickness (feet)
		11/27/06	11/27/06	11/27/06
USTBB293-MW01 (Type III)	9.52	4.22	5.30	--
USTBB293-MW02 (Type II)	8.87	1.92	6.95	--
USTBB293-MW03 (Type II)	9.44	2.53	6.91	--
USTBB293-MW04 (Type II)	9.28	2.20	7.08	--
USTBB293-MW05A (Type II)	10.69	3.75	6.94	--
USTBB293-MW06 (Type II)	9.53	2.58	6.95	--
Pond Well (SBB313)	Unknown	NM	Not Calculated	NM

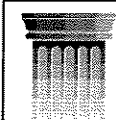
Note: "--" = free product not present during gauging event.
NM = Not Measured



NOTES:

1. VERTICAL DATUM IS BASED ON MILITARY CONTROL MONUMENT PW-31 WHICH IS A 2"Ø BRASS DISK SET IN A 10"Ø CONCRETE MONUMENT SET FLUSH WITH THE GROUND AND HAS AN ELEVATION OF 13.87 FEET BASED ON NGVD 1929 DATUM. PW-31 IS LOCATED 0.6 MILES SOUTH FROM THE INTERSECTION OF SNEADS FERRY AND HORN ROAD AND IS ON THE EAST SIDE OF HORN ROAD. PW-31 IS ALSO LOCATED 5.0 FEET FROM THE SOUTHWEST CORNER OF A CHAIN LINK FENCE AROUND A WATER TANK.
2. FORMER UST BASIN LOCATION IS APPROXIMATE.

LEGEND		
EXISTING	NEW	DESCRIPTION
		BUILDING
		TYPE II WELL (SHALLOW)
		TYPE III WELL (DEEP)
		POND SUPPLY WELL



SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

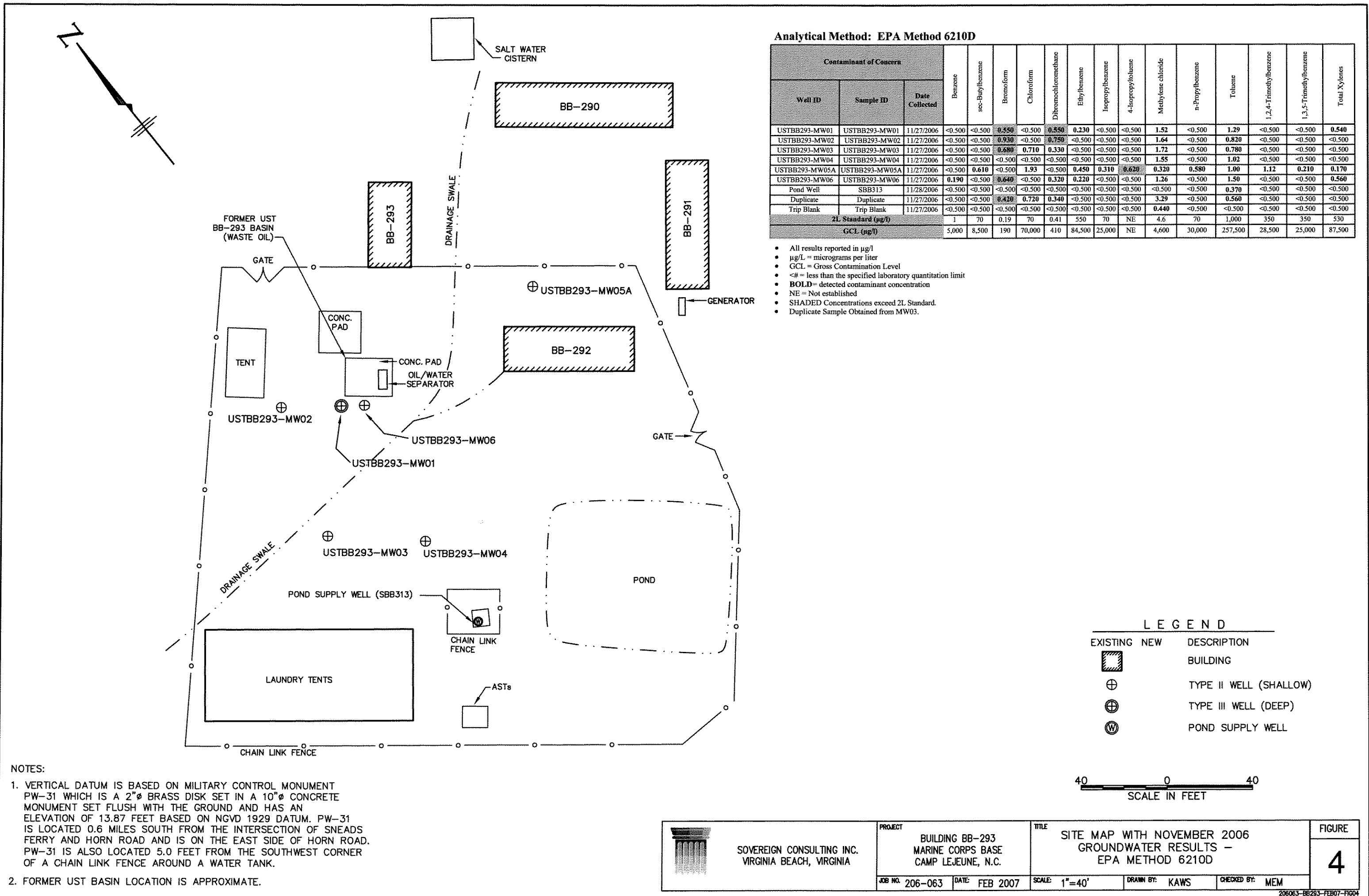
PROJECT
BUILDING BB-293
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

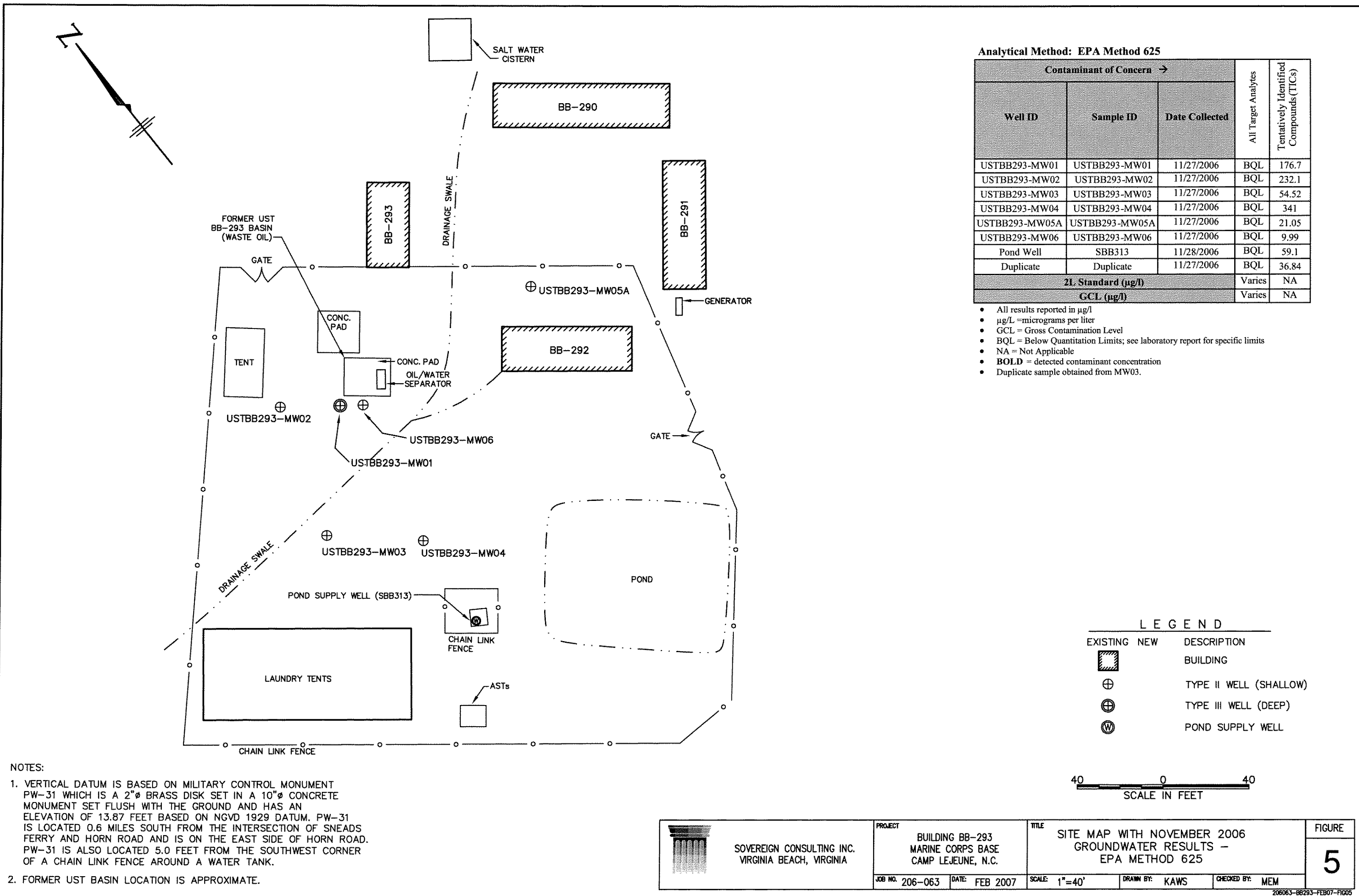
TITLE
SHALLOW WELL GROUNDWATER
ELEVATIONS - NOVEMBER 2006

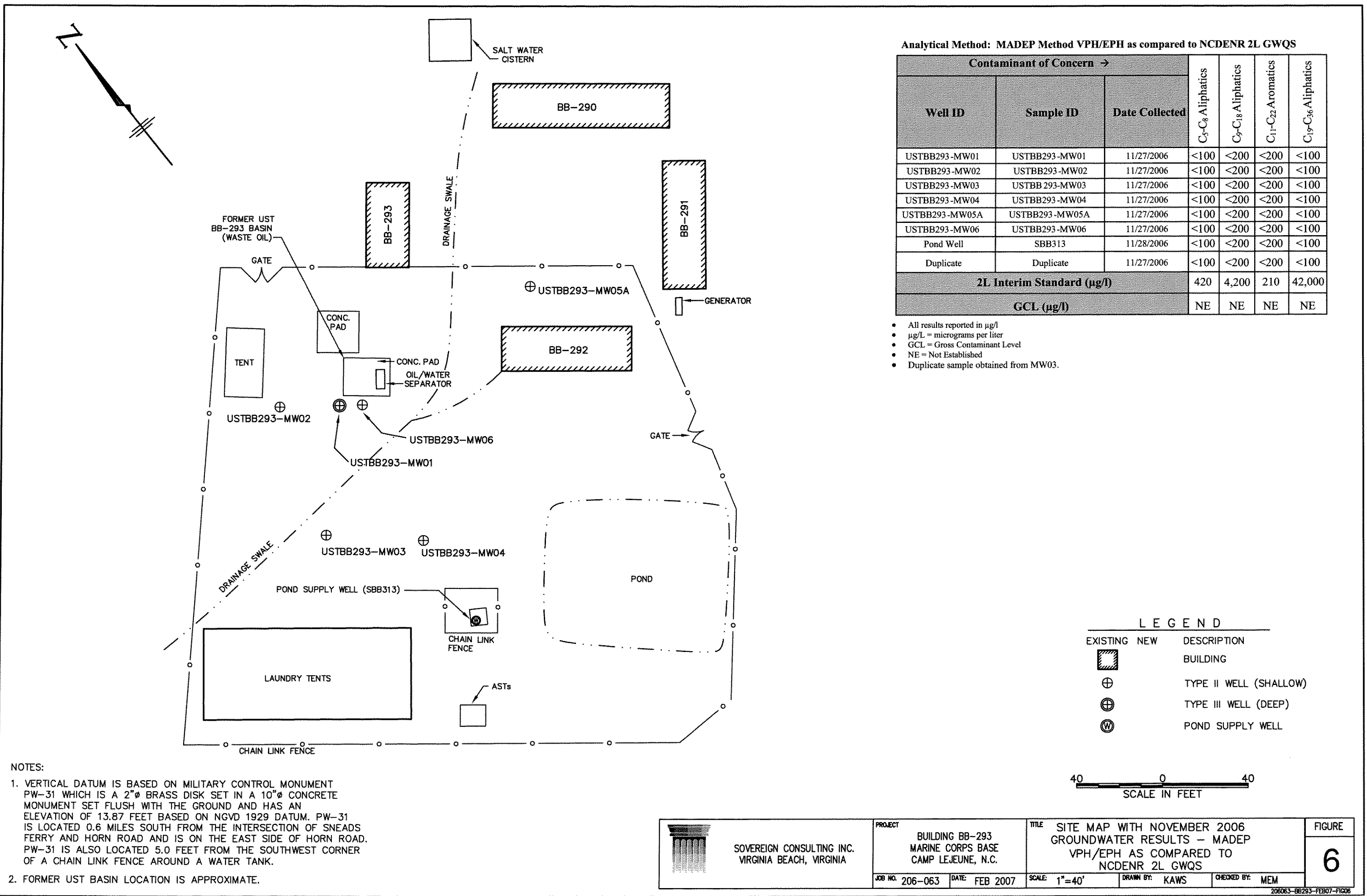
FIGURE

3

JOB NO. 206-063 DATE: FEB 2007 SCALE: 1"=40' DRAWN BY: KAWS CHECKED BY: MEM







Analytical Method: MADEP Method VPH/EPH as compared to NCDENR 2L GWQS

Contaminant of Concern →						
Well ID	Sample ID	Date Collected	C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₁₁ -C ₂₂ Aromatics	C ₁₉ -C ₃₆ Aliphatics
USTBB293-MW01	USTBB293-MW01	11/27/2006	<100	<200	<200	<100
USTBB293-MW02	USTBB293-MW02	11/27/2006	<100	<200	<200	<100
USTBB293-MW03	USTBB293-MW03	11/27/2006	<100	<200	<200	<100
USTBB293-MW04	USTBB293-MW04	11/27/2006	<100	<200	<200	<100
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	<100	<200	<200	<100
USTBB293-MW06	USTBB293-MW06	11/27/2006	<100	<200	<200	<100
Pond Well	SBB313	11/28/2006	<100	<200	<200	<100
Duplicate	Duplicate	11/27/2006	<100	<200	<200	<100
2L Interim Standard (µg/l)			420	4,200	210	42,000
GCL (µg/l)			NE	NE	NE	NE

- All results reported in µg/l
- µg/L = micrograms per liter
- GCL = Gross Contaminant Level
- NE = Not Established
- Duplicate sample obtained from MW03.

NOTES:

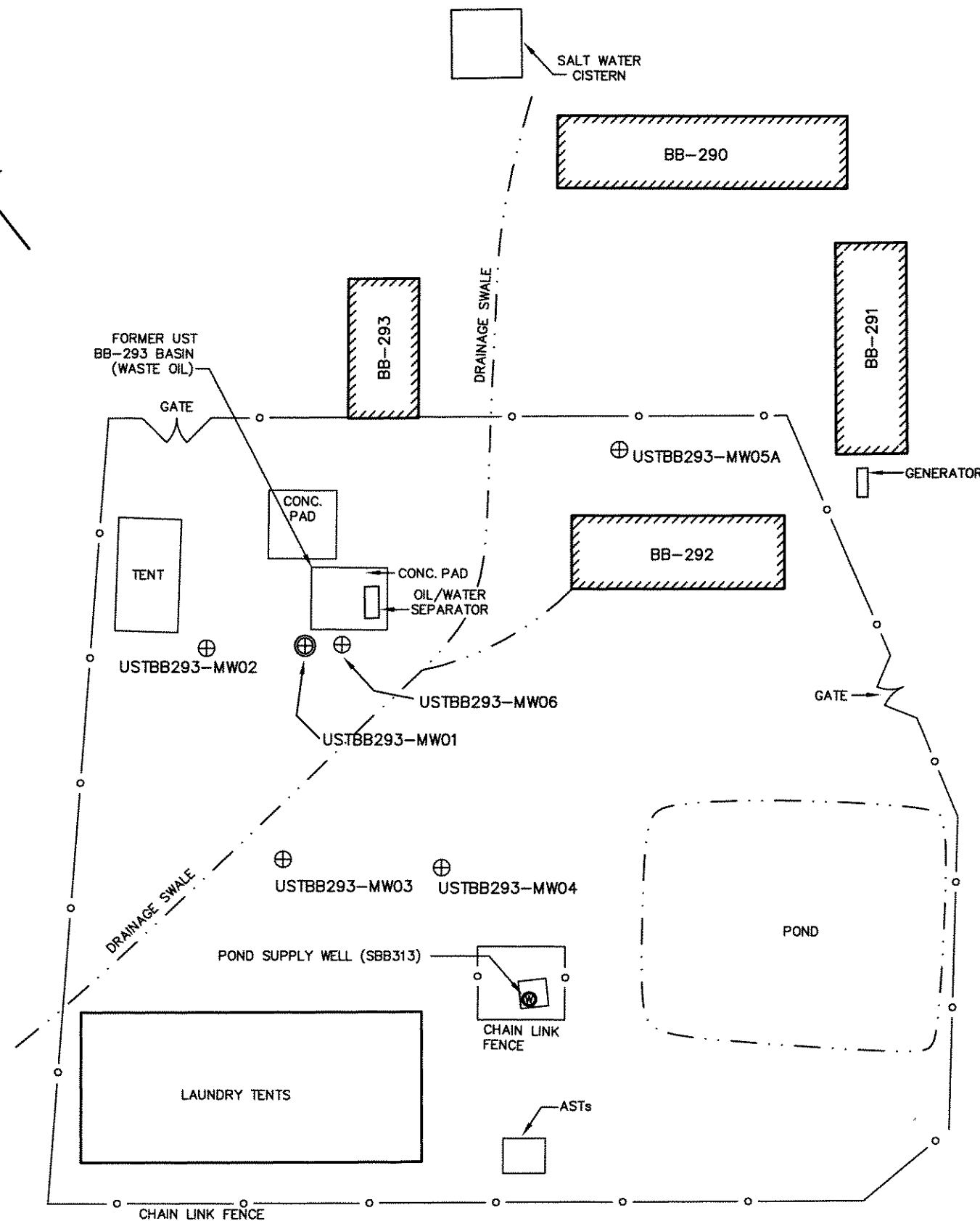
1. VERTICAL DATUM IS BASED ON MILITARY CONTROL MONUMENT PW-31 WHICH IS A 2"Ø BRASS DISK SET IN A 10"Ø CONCRETE MONUMENT SET FLUSH WITH THE GROUND AND HAS AN ELEVATION OF 13.87 FEET BASED ON NGVD 1929 DATUM. PW-31 IS LOCATED 0.6 MILES SOUTH FROM THE INTERSECTION OF SNEADS FERRY AND HORN ROAD AND IS ON THE EAST SIDE OF HORN ROAD. PW-31 IS ALSO LOCATED 5.0 FEET FROM THE SOUTHWEST CORNER OF A CHAIN LINK FENCE AROUND A WATER TANK.
2. FORMER UST BASIN LOCATION IS APPROXIMATE.

LEGEND		
EXISTING	NEW	DESCRIPTION
		BUILDING
		TYPE II WELL (SHALLOW)
		TYPE III WELL (DEEP)
		POND SUPPLY WELL



	SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDING BB-293 MARINE CORPS BASE CAMP LEJEUNE, N.C.		TITLE SITE MAP WITH NOVEMBER 2006 GROUNDWATER RESULTS – MADEP VPH/EPH AS COMPARED TO NCDENR 2L GWQS			FIGURE
		JOB NO. 206-063	DATE: FEB 2007	SCALE: 1"=40'	DRAWN BY: KAWS	CHECKED BY: MEM	6

206063-BB293-FFB07-FIGURE



Analytical Method: EPA Method 6010B (Pb and Cr)

Contaminant of Concern			Chromium	Lead
Well ID	Sample ID	Date Collected		
USTBB293-MW01	USTBB293-MW01	11/27/2006	2.18	1.44
USTBB293-MW02	USTBB293-MW02	11/27/2006	3.24	2.46
USTBB293-MW03	USTBB293-MW03	11/27/2006	3.01	1.94
USTBB293-MW04	USTBB293-MW04	11/27/2006	2.71	1.62
USTBB293-MW05A	USTBB293-MW05A	11/27/2006	2.33	1.46
USTBB293-MW06	USTBB293-MW06	11/27/2006	2.49	1.69
Pond Well	SBB313	11/28/2006	2.18	4.41
Duplicate	Duplicate	11/27/2006	2.86	4.28
2L Standard (µg/l)			50	15
GCL (µg/l)			50,000	15,000

- All results reported in µg/l
- µg/L = micrograms per liter
- GCL = Gross Contamination Level
- <# = less than the specified laboratory quantitation limit
- **BOLD** = detected contaminant concentration.
- Duplicate sample obtained from MW03.

LEGEND		
EXISTING	NEW	DESCRIPTION
		BUILDING
		TYPE II WELL (SHALLOW)
		TYPE III WELL (DEEP)
		POND SUPPLY WELL

40 0 40
SCALE IN FEET

NOTES:

1. VERTICAL DATUM IS BASED ON MILITARY CONTROL MONUMENT PW-31 WHICH IS A 2"Ø BRASS DISK SET IN A 10"Ø CONCRETE MONUMENT SET FLUSH WITH THE GROUND AND HAS AN ELEVATION OF 13.87 FEET BASED ON NGVD 1929 DATUM. PW-31 IS LOCATED 0.6 MILES SOUTH FROM THE INTERSECTION OF SNEADS FERRY AND HORN ROAD AND IS ON THE EAST SIDE OF HORN ROAD. PW-31 IS ALSO LOCATED 5.0 FEET FROM THE SOUTHWEST CORNER OF A CHAIN LINK FENCE AROUND A WATER TANK.
2. FORMER UST BASIN LOCATION IS APPROXIMATE.

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDING BB-293 MARINE CORPS BASE CAMP LEJEUNE, N.C.		TITLE SITE MAP WITH NOVEMBER 2006 GROUNDWATER RESULTS – METALS (Pb AND Cr)			FIGURE 7
	JOB NO. 206-063	DATE: FEB 2007	SCALE: 1"=40'	DRAWN BY: KAWS	CHECKED BY: MEM	

206063-BB293-FEB07-FIG07

APPENDIX A

HISTORICAL GROUNDWATER QUALITY DATA

Sample Location Date Sampled	NCGWQS	GCL	USTBB293-MW01						USTBB293-MW02						
			6/4/2004	9/23/2004	12/2/2004	3/8/2005	10/18/2005	11/27/2006	6/4/2004	Duplicate	9/23/2004	12/2/2004	3/7/2005	10/18/2005	11/27/2006
EPA 6210D (ug/L)															
Benzene	1	5000	<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
Bromodichloromethane	0.56	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	<0.500
Bromoform	0.19	NE	<0.500	<0.500	<0.500	<0.500	<0.500	0.550	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.930
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
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	<0.500
tert-Butylbenzene	70	15000	<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
Chloroform	0.19	190	<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
Dibromochloromethane	0.41	410	<0.500	<0.500	<0.500	<0.500	<0.500	0.550	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.750
Ethylbenzene	29	29000	<0.500	<0.500	0.670	<0.500	<0.500	0.230	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	70	25000	<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
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	<0.500
Methylene Chloride	5	5000	<5.00	<5.00	<5.00	<5.00	<5.00	1.52	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	1.64
Napthalene	21	15500	<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
n-Propyl benzene	70	30000	<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
Toluene	1000	257500	0.260 J	0.940	0.860	<0.500	<0.500	1.29	<0.500	<0.500	<0.500	<0.500	<0.500	0.310 J	0.820
1,2,4-Trimethylbenzene	350	28500	<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
1,3,5-Trimethylbenzene	350	25000	<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	530	87500	<1.50	0.730	1.83	<1.50	<1.50	0.540	<1.50	<1.50	<1.50	<1.50	<1.50	0.400 J	<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
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	<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	15500	<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
TICs (total)			NR	NR	NR	7.9 J	NR	176.7	NR	NR	NR	NR	6.8 J	NR	232.1
MADEP VPH/EPH (ug/L)															
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C19-C36 Aliphatics	42000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C9-C12 + C9-C18 Aliphatics	4200	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
C9-C10 + C11-C22 Aromatics	210	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
6010B/3030C (ug/L)															
Chromium	50	50000	<10.0	1.98 JB	<10.0	0.590 JB	<5.000 B	2.18	<10.0	<10.0	2.56 JB	0.340 J	0.990 JB	<5.000 B	3.24
Lead	15	15000	<10.0	15.4 B	8.58 J	<10.0	<5.000	1.44	<10.0	<10.0	9.06 JB	6.33 J	<10.0	<5.000	2.46

GCL: Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; 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 NCGWQS

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

NS: Not Sampled; the location could not be sampled

Sample Location Date Sampled	NCGWQS	GCL	USTBB293-MW03								USTBB293-MW04						
			6/4/2004	9/23/2004	Duplicate	12/2/2004	3/8/2005	10/18/2005	11/27/2006	Duplicate	6/4/2004	9/23/2004	12/3/2004	3/8/2005	Duplicate	10/18/2005	11/27/2006
EPA 6210D (ug/L)																	
Benzene	1	5000	<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
Bromodichloromethane	0.56	NE	6.98	<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
Bromoform	0.19	NE	2.68	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.680	0.420	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	70	6900	<0.500	<0.500	<0.500	0.900	<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	0.250 J	0.410 J	0.890	<0.500	<0.500	<0.500
tert-Butylbenzene	70	15000	<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	<0.500	<0.500
Chloroform	0.19	190	4.94	<0.500	<0.500	<0.500	<0.500	3.65	0.710	0.720	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	0.41	410	7.38	<0.500	<0.500	<0.500	<0.500	<0.500	0.330	0.340	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	29	29000	<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	25000	<0.500	<0.500	<0.500	0.720	0.220 J	<0.500	<0.500	<0.500	<0.500	0.460 J	<0.500	<0.500	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	<0.500	<0.500	<0.500	0.840	<0.500	<0.500	<0.500	<0.500	0.370 J	0.570	0.880	0.220 J	0.220 J	0.230 J	<0.500
Methylene Chloride	5	5000	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	1.72	3.29	<5.00	<5.00	<5.00	<5.00	0.180 J	<5.00	1.55
Napthalene	21	15500	<0.500	<0.500	<0.500	1.44	0.290 J	<0.500	<0.500	<0.500	0.530	1.30	1.49	<0.500	<0.500	<0.500	<0.500
n-Propyl benzene	70	30000	<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	<0.500	<0.500
Toluene	1000	257500	0.180 J	0.560	0.480 J	0.620	<0.500	0.230 J	0.780	0.560	0.190 J	0.380 J	0.700	<0.500	<0.500	0.240 J	1.02
1,2,4-Trimethylbenzene	350	28500	<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	25000	<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	530	87500	<1.50	<1.50	<1.50	0.950 J	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	0.970 J	<1.50	<1.50	<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
Bis(2-ethylhexyl)phthalate	3	3000	<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	<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
Naphthalene	21	15500	<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
TICs (total)			NR	NR	4.2 J	NR	NR	NR	54.52	36.84	NR	4.36 J	15.2 J	5.81 J	NR	NR	341
MADEP VPH/EPH (ug/L)																	
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C19-C36 Aliphatics	42000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C9-C12 + C9-C18 Aliphatics	4200	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
C9-C10 + C11-C22 Aromatics	210	NE	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
6010B/3030C (ug/L)																	
Chromium	50	50000	<10.0	<10.0	<10.0	<10.0	1.61 JB	1.85 JB	3.01	2.86	<10.0	<10.0 B	<10.0	<10.0	0.400 JB	<5.000 B	2.71
Lead	15	15000	<10.0	11.6 B	12.5 B	7.65 J	<10.0	<5.000	1.94	4.28	<10.0	11.0 B	6.56 J	1.21 J	<10.0	<5.000	1.62

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Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a con

Shaded area in bold italics indicates analyte detection at

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 samp

NS: Not Sampled; the location could not be sampled

Sample Location Date Sampled	NCGWQS	GCL	USTBB293-MW05A						USTBB293-MW06						
			6/4/2004	9/23/2004	12/3/2004	3/7/2005	10/18/2005	11/27/2006	6/4/2004	9/23/2004	12/2/2004	Duplicate	3/8/2005	10/18/2005	11/27/2006
EPA 6210D (ug/L)															
Benzene	1	5000	<0.500	<1.00	<4.00	<2.00	NS	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.190
Bromodichloromethane	0.56	NE	<0.500	<1.00	<4.00	<2.00	NS	<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	NS	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.640
n-Butylbenzene	70	6900	3.56	<1.00	<4.00	<2.00	NS	<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	NS	0.610	<0.500	<0.500	1.01	1.01	<0.500	<0.500	<0.500
tert-Butylbenzene	70	15000	0.440 J	<1.00	6.40	0.880 J	NS	<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	NS	1.93	<0.500	<0.500	<0.500	<0.500	<0.500	0.200 J	<0.500
Dibromochloromethane	0.41	410	<0.500	<1.00	<4.00	<2.00	NS	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.320
Ethylbenzene	29	29000	11.1	4.96	19.5	17.4	NS	0.450	0.510	<0.500	1.25	1.30	<0.500	<0.500	0.220
Isopropylbenzene	70	25000	3.33	1.68	10.1	6.08	NS	0.310	0.300 J	<0.500	1.09	1.09	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	2.45	1.44	10.4	5.20	NS	0.620	<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	NS	0.320	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	1.26
Napthalene	21	15500	180	59.1	149	107	NS	<0.500	0.680	<0.500	1.46	1.47	<0.500	<0.500	<0.500
n-Propyl benzene	70	30000	4.87	2.56	13.3	9.60	NS	0.580	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Toluene	1000	257500	<0.500	0.500 J	4.00	<2.00	NS	1.00	<0.500	0.370 J	0.680	0.620	<0.500	<0.500	1.50
1,2,4-Trimethylbenzene	350	28500	38.2	13.6	52.7	79.3	NS	1.12	0.520	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	350	25000	7.27	4.82	19.2	11.7	NS	0.210	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Total Xylenes	530	87500	8.1	2.86	23.28	18.6	NS	0.170	<1.50	<1.50	1.60	1.58	<1.50	<1.50	0.560
EPA 625 (ug/L)															
Acenaphthene	80	2120	1.70 J	<10.0	1.40 J	2.30 J	NS	<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	NS	<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	NS	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15500	130	33.8	155	106	NS	<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	NS	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			375 J	101.7 J	381.7 J	394.2 J	NS	21.05	NR	348.39 J	15.6 J	7.96 J	NR	NR	9.99
MADEP VPH/EPH (ug/L)															
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	NS	<100	<100	<100	<100	<100	<100	<100	<100
C19-C36 Aliphatics	42000	NE	<100	<100	<100	<100	NS	<100	<100	<100	<100	<100	<100	<100	<100
C9-C12 + C9-C18 Aliphatics	4200	NE	1250	200	390	270	NS	<200	<200	<200	<200	<200	<200	<200	<200
C9-C10 + C11-C22 Aromatics	210	NE	820	200	830	1000	NS	<200	<200	<200	<200	<200	<200	<200	<200
6010B/3030C (ug/L)															
Chromium	50	50000	39.4	<10.0 B	<10.0	0.530 JB	NS	2.33	<10.0	<10.0 B	<10.0	<10.0	0.990 JB	<5.000 B	2.49
Lead	15	15000	<10.0	26.9 B	19.0	<10.0	NS	1.46	<10.0	9.65 JB	6.63 J	7.31 J	<10.0	<5.000	1.69

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Shaded area in bold indicates analyte detection at a con

Shaded area in bold italics indicates analyte detection at

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 samp

NS: Not Sampled; the location could not be sampled

Sample Location Date Sampled	NCGWQS	GCL	SBB313 Pond Supply Well						
			6/8/2004	9/23/2004	12/3/2004	3/8/2005	10/18/2005	Duplicate	11/27/2006
EPA 6210D (ug/L)									
Benzene	1	5000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	0.56	NE	<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
n-Butylbenzene	70	6900	<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
tert-Butylbenzene	70	15000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroform	0.19	190	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	0.41	410	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	29	29000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	70	25000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Isopropyltoluene	RL	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene Chloride	5	5000	<5.00	<5.00	<5.00	0.420 J	<5.00	<5.00	<5.00
Napthalene	21	15500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Propyl benzene	70	30000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Toluene	1000	257500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.370
1,2,4-Trimethylbenzene	350	28500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	350	25000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Total Xylenes	530	87500	<1.50	<1.50	<1.50	<1.50	<1.50	<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
Bis(2-ethylhexyl)phthalate	3	3000	<10.0	<10.0	<10.0	<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
Naphthalene	21	15500	<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
TICs (total)			22 J	NR	NR	7.85 J	NR	NR	59.1
MADEP VPH/EPH (ug/L)									
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100
C19-C36 Aliphatics	42000	NE	<100	<100	<100	<100	<100	<100	<100
C9-C12 + C9-C18 Aliphatics	4200	NE	<200	<200	<200	<200	<200	<200	<200
C9-C10 + C11-C22 Aromatics	210	NE	<200	<200	<200	<200	<200	<200	<200
6010B/3030C (ug/L)									
Chromium	50	50000	<10.0	<10.0 B	<10.0	0.330 JB	<5,000 B	<5,000 B	2.18
Lead	15	15000	<10.0	12.8 B	7.91 J	1.38 J	<5,000	<5,000	4.41

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NS: Not Sampled; the location could not be sampled

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION FROM 2006 SAMPLING EVENT



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-95
Client Project: NV016

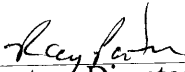
Dear Mr. Murray:

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 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 SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/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,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

12/12/2006
Date



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW01
 Client Project ID: NV016
 Lab Sample ID: G650-95-1E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 10:40
 Date Received: 11/29/2006
 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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	0.550	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	0.550	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	0.230	0.500	0.183	1	11/30/2006	J
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	1.52	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW01
 Client Project ID: NV016
 Lab Sample ID: G650-95-1E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 10:40
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	1.29	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	0.540	1.00	0.388	1	11/30/2006	J
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.44	94		
1,2-Dichloroethane-d4		10	10.8	108		
Toluene-d8		10	10.2	102		

Comments:

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RJP



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW02
 Client Project ID: NV016
 Lab Sample ID: G650-95-2E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 10:25
 Date Received: 11/29/2006
 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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	0.930	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	0.750	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	1.64	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW02
 Client Project ID: NV016
 Lab Sample ID: G650-95-2E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 10:25
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	0.820	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.58	96		
1,2-Dichloroethane-d4		10	10.5	105		
Toluene-d8		10	10	100		

Comments:

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *Ed*



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW03

Client Project ID: NV016

Lab Sample ID: G650-95-3E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 11:56

Date Received: 11/29/2006

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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	0.680	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	0.710	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	0.330	0.500	0.198	1	11/30/2006	J
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	1.72	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW03

Client Project ID: NV016

Lab Sample ID: G650-95-3E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 11:56

Date Received: 11/29/2006

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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	0.780	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.55	96		
1,2-Dichloroethane-d4		10	11.3	113		
Toluene-d8		10	10.8	108		

Comments:**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RJL



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW04

Client Project ID: NV016

Lab Sample ID: G650-95-4E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 12:35

Date Received: 11/29/2006

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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	BQL	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	BQL	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	1.55	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW04

Client Project ID: NV016

Lab Sample ID: G650-95-4E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 12:35

Date Received: 11/29/2006

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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	1.02	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.47	95		
1,2-Dichloroethane-d4		10	10.3	103		
Toluene-d8		10	9.95	99		

Comments:**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RMP



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW05

Client Project ID: NV016

Lab Sample ID: G650-95-5E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 13:42

Date Received: 11/29/2006

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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	BQL	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	0.610	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	1.93	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	BQL	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	0.450	0.500	0.183	1	11/30/2006	J
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	0.310	0.500	0.163	1	11/30/2006	J
4-Isopropyltoluene	0.620	0.500	0.203	1	11/30/2006	
Methylene chloride	0.320	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	0.580	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW05
 Client Project ID: NV016
 Lab Sample ID: G650-95-5E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 13:42
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	1.00	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	1.12	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	0.210	0.500	0.179	1	11/30/2006	J
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	0.170	0.500	0.156	1	11/30/2006	J
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.65	97		
1,2-Dichloroethane-d4		10	10.8	108		
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: NV016

Lab Sample ID: G650-95-6E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 9:15

Date Received: 11/29/2006

Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	0.190	0.500	0.152	1	11/30/2006	J
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	0.640	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	0.320	0.500	0.198	1	11/30/2006	J
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	0.220	0.500	0.183	1	11/30/2006	J
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	1.26	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-MW06
 Client Project ID: NV016
 Lab Sample ID: G650-95-6E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 9:15
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	1.50	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	0.400	1.00	0.388	1	11/30/2006	J
o-Xylene	0.160	0.500	0.156	1	11/30/2006	J
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.33	93		
1,2-Dichloroethane-d4		10	10.4	104		
Toluene-d8		10	10	100		

Comments:

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: Red



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-Duplicate

Client Project ID: NV016

Lab Sample ID: G650-95-7E

Lab Project ID: G650-95

Analyzed By: MJC

Date Collected: 11/27/2006 0:00

Date Received: 11/29/2006

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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	0.420	0.500	0.116	1	11/30/2006	J
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	0.720	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	0.340	0.500	0.198	1	11/30/2006	J
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	3.29	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTBB293-Duplicate
 Client Project ID: NV016
 Lab Sample ID: G650-95-7E
 Lab Project ID: G650-95

Analized By: MJC
 Date Collected: 11/27/2006 0:00
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	0.560	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.78	98		
1,2-Dichloroethane-d4		10	10.6	106		
Toluene-d8		10	10	100		

Comments:

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *Paul*



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Trip Blanks
Client Project ID: NV016
Lab Sample ID: G650-95-8A
Lab Project ID: G650-95

Analyzed By: MJC
Date Collected: 11/27/2006 0:00
Date Received: 11/29/2006
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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	BQL	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	BQL	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	0.440	5.00	0.176	1	11/30/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Trip Blanks
 Client Project ID: NV016
 Lab Sample ID: G650-95-8A
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/27/2006 0:00
 Date Received: 11/29/2006
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	BQL	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.62	96		
1,2-Dichloroethane-d4		10	10.7	107		
Toluene-d8		10	10.1	101		

Comments:**Flags:**

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

Reviewed By: Red



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: SBB313
 Client Project ID: NV016
 Lab Sample ID: G650-95-9E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/28/2006 14:10
 Date Received: 11/29/2006
 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	12/1/2006	
Bromobenzene	BQL	0.500	0.199	1	12/1/2006	
Bromochloromethane	BQL	0.500	0.312	1	12/1/2006	
Bromodichloromethane	BQL	0.500	0.195	1	12/1/2006	
Bromoform	BQL	0.500	0.116	1	12/1/2006	
Bromomethane	BQL	0.500	0.398	1	12/1/2006	
n-Butylbenzene	BQL	0.500	0.262	1	12/1/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	12/1/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	12/1/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	12/1/2006	
Chlorobenzene	BQL	0.500	0.178	1	12/1/2006	
Chloroethane	BQL	0.500	0.373	1	12/1/2006	
Chloroform	BQL	0.500	0.195	1	12/1/2006	
Chloromethane	BQL	0.500	0.457	1	12/1/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	12/1/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	12/1/2006	
Dibromochloromethane	BQL	0.500	0.198	1	12/1/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/1/2006	
Dibromomethane	BQL	0.500	0.276	1	12/1/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/1/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/1/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/1/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/1/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/1/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/1/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/1/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/1/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/1/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/1/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/1/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/1/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/1/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/1/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/1/2006	
Ethylbenzene	BQL	0.500	0.183	1	12/1/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/1/2006	
Isopropylbenzene	BQL	0.500	0.163	1	12/1/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/1/2006	
Methylene chloride	BQL	5.00	0.176	1	12/1/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/1/2006	
Naphthalene	BQL	0.500	0.259	1	12/1/2006	
n-Propyl benzene	BQL	0.500	0.203	1	12/1/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: SBB313
 Client Project ID: NV016
 Lab Sample ID: G650-95-9E
 Lab Project ID: G650-95

Analyzed By: MJC
 Date Collected: 11/28/2006 14:10
 Date Received: 11/29/2006
 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	12/1/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/1/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/1/2006	
Tetrachloroethene	BQL	0.500	0.219	1	12/1/2006	
Toluene	0.370	0.500	0.154	1	12/1/2006	J
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	12/1/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/1/2006	
Trichloroethene	BQL	0.500	0.201	1	12/1/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/1/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/1/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/1/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	12/1/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/1/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/1/2006	
Vinyl chloride	BQL	0.500	0.464	1	12/1/2006	
m-,p-Xylene	BQL	1.00	0.388	1	12/1/2006	
o-Xylene	BQL	0.500	0.156	1	12/1/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.28	93		
1,2-Dichloroethane-d4		10	10.7	107		
Toluene-d8		10	9.81	98		

Comments:

Flags:

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

Reviewed By: *Rd*



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: VBLK4120106B
 Lab Project ID:

Analyzed By: MJC
 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	12/1/2006	
Bromobenzene	BQL	0.500	0.199	1	12/1/2006	
Bromochloromethane	BQL	0.500	0.312	1	12/1/2006	
Bromodichloromethane	BQL	0.500	0.195	1	12/1/2006	
Bromoform	BQL	0.500	0.116	1	12/1/2006	
Bromomethane	BQL	0.500	0.398	1	12/1/2006	
n-Butylbenzene	BQL	0.500	0.262	1	12/1/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	12/1/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	12/1/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	12/1/2006	
Chlorobenzene	BQL	0.500	0.178	1	12/1/2006	
Chloroethane	BQL	0.500	0.373	1	12/1/2006	
Chloroform	BQL	0.500	0.195	1	12/1/2006	
Chloromethane	BQL	0.500	0.457	1	12/1/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	12/1/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	12/1/2006	
Dibromochloromethane	BQL	0.500	0.198	1	12/1/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	12/1/2006	
Dibromomethane	BQL	0.500	0.276	1	12/1/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	12/1/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	12/1/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	12/1/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	12/1/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	12/1/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	12/1/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	12/1/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	12/1/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	12/1/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	12/1/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	12/1/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	12/1/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	12/1/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	12/1/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	12/1/2006	
Ethylbenzene	BQL	0.500	0.183	1	12/1/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	12/1/2006	
Isopropylbenzene	BQL	0.500	0.163	1	12/1/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	12/1/2006	
Methylene chloride	BQL	5.00	0.176	1	12/1/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	12/1/2006	
Naphthalene	BQL	0.500	0.259	1	12/1/2006	
n-Propyl benzene	BQL	0.500	0.203	1	12/1/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: VBLK4120106B
 Lab Project ID:

Analyzed By: MJC
 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	12/1/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	12/1/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	12/1/2006	
Tetrachloroethene	BQL	0.500	0.219	1	12/1/2006	
Toluene	BQL	0.500	0.154	1	12/1/2006	
1,2,3-Trichlorobenzene	2.15	0.500	0.206	1	12/1/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	12/1/2006	
Trichloroethene	BQL	0.500	0.201	1	12/1/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	12/1/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	12/1/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	12/1/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	12/1/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	12/1/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	12/1/2006	
Vinyl chloride	BQL	0.500	0.464	1	12/1/2006	
m-,p-Xylene	BQL	1.00	0.388	1	12/1/2006	
o-Xylene	BQL	0.500	0.156	1	12/1/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.42	94		
1,2-Dichloroethane-d4		10	10.5	105		
Toluene-d8		10	9.88	99		

Comments:

Flags:

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

Reviewed By: *WJL*



SGS Environmental Services

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental

Lab Code: NC00919 Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) Water

Lab Sample ID: LCS4120106a

Sample wt/vol: 5.00 (mL)

Lab File ID: 1201405.D

Level: (low/med) NA

% Moisture: not dec. NA

Date Analyzed: 2006-12-01 10:20

GC Column: DB-624 ID: 0.2 (mm)

Dilution Factor: 1

Soil Extract Volume: NA

Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
71-43-2	benzene	5.00	4.85	97.0	77.4-123
108-90-7	chlorobenzene	5.00	4.04	80.8	72.5-128
75-35-4	1,1-dichloroethene	5.00	4.50	90.0	71.7-128
108-88-3	toluene	5.00	4.52	90.4	75.9-124
79-01-6	trichloroethene	5.00	4.38	87.6	77.9-122

System Monitoring Compound Results

		Spike Added (µg/L)	Spike Result (µg/L)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	10	9.58	96.0	88.6 - 113
17060-07-0	1,2-Dichloroethane-d4	10	11.0	111	84.6 - 114
2037-26-5	Toluene-d8	10	9.91	99.0	87.4 - 109



SGS Environmental Services

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

LCS: LCS4120106A

ilename: 1201405.D

Date Analyzed: 12/01/06 10:20 Dilution: 1

LCSD: LCS4120106B

ilename: 1201406.D

Date Analyzed: 12/01/06 10:51 Matrix: Water

COMPOUND	LCS SPIKE (µg/kg)	LCS CONC (µg/kg)	LCS % REC #	LCSD SPIKE (µg/kg)	LCSD CONC (µg/kg)	LCSD % REC #	% RPD	QC LIMITS	
								RPD	REC
benzene	5.00	4.85	97.0	5.00	5.99	120	21.0	30	77.4-123
chlorobenzene	5.00	4.04	80.8	5.00	4.79	95.8	17.0	30	72.5-128
1,1-dichloroethene	5.00	4.50	90.0	5.00	5.40	108	18.2	30	71.7-128
toluene	5.00	4.52	90.4	5.00	5.49	110	19.4	30	75.9-124
trichloroethene	5.00	4.38	87.6	5.00	5.51	110	22.8	30	77.9-122

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:



SGS Environmental Services

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: g460-89-4a

Dilution: 10

Filenames: 1201413.D, 1201422.D, 1201423.D

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
benzene	123	50.0	58.4	117	50.0	45.3	90.6	25.3	30	61.6-135
chlorobenzene	BQL	50.0	46.4	92.8	50.0	42.2	84.4	9.48	30	77.2-118
1,1-dichloroethene	BQL	50.0	53.7	107	50.0	52.3	105	2.64	30	64.4-130
toluene	13.9	50.0	53.4	107	50.0	46.7	93.4	13.4	30	66.4-128
trichloroethene	BQL	50.0	53.7	107	50.0	47.2	94.4	12.9	30	84.9-136

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: VBLK4113006B
 Lab Project ID:

Analyzed By: MJC
 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	11/30/2006	
Bromobenzene	BQL	0.500	0.199	1	11/30/2006	
Bromochloromethane	BQL	0.500	0.312	1	11/30/2006	
Bromodichloromethane	BQL	0.500	0.195	1	11/30/2006	
Bromoform	BQL	0.500	0.116	1	11/30/2006	
Bromomethane	BQL	0.500	0.398	1	11/30/2006	
n-Butylbenzene	BQL	0.500	0.262	1	11/30/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	11/30/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	11/30/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	11/30/2006	
Chlorobenzene	BQL	0.500	0.178	1	11/30/2006	
Chloroethane	BQL	0.500	0.373	1	11/30/2006	
Chloroform	BQL	0.500	0.195	1	11/30/2006	
Chloromethane	BQL	0.500	0.457	1	11/30/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	11/30/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	11/30/2006	
Dibromochloromethane	BQL	0.500	0.198	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	11/30/2006	
Dibromomethane	BQL	0.500	0.276	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	11/30/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	11/30/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	11/30/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	11/30/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	11/30/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	11/30/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	11/30/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	11/30/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	11/30/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	11/30/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	11/30/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	11/30/2006	
Ethylbenzene	BQL	0.500	0.183	1	11/30/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	11/30/2006	
Isopropylbenzene	BQL	0.500	0.163	1	11/30/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	11/30/2006	
Methylene chloride	BQL	5.00	0.176	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	11/30/2006	
Naphthalene	BQL	0.500	0.259	1	11/30/2006	
n-Propyl benzene	BQL	0.500	0.203	1	11/30/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: VBLK4113006B
 Lab Project ID:

Analyzed By: MJC
 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	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	11/30/2006	
Tetrachloroethene	BQL	0.500	0.219	1	11/30/2006	
Toluene	BQL	0.500	0.154	1	11/30/2006	
1,2,3-Trichlorobenzene	2.15	0.500	0.206	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	11/30/2006	
Trichloroethene	BQL	0.500	0.201	1	11/30/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	11/30/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	11/30/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	11/30/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	11/30/2006	
Vinyl chloride	BQL	0.500	0.464	1	11/30/2006	
m-,p-Xylene	BQL	1.00	0.388	1	11/30/2006	
o-Xylene	BQL	0.500	0.156	1	11/30/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.34	93		
1,2-Dichloroethane-d4		10	10.5	105		
Toluene-d8		10	10.1	101		

Comments:

Flags:

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

Reviewed By: QJL



SGS Environmental Services

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) Water

Lab Sample ID: LCS4113006a

Sample wt/vol: 5.00 (mL)

Lab File ID: 1130406.D

Level: (low/med) NA

Date Analyzed: 2006-11-30 11:21

% Moisture: not dec. NA

Dilution Factor: 1

GC Column: DB-624 ID: 0.2 (mm)

Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
71-43-2	benzene	5.00	5.74	115	77.4-123
108-90-7	chlorobenzene	5.00	4.50	90.0	72.5-128
75-35-4	1,1-dichloroethene	5.00	5.31	106	71.7-128
108-88-3	toluene	5.00	5.36	107	75.9-124
79-01-6	trichloroethene	5.00	5.23	105	77.9-122

System Monitoring Compound Results

		Spike Added (µg/L)	Spike Result (µg/L)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	10	9.69	97.0	88.6 - 113
17060-07-0	1,2-Dichloroethane-d4	10	11.0	106	84.6 - 114
2037-26-5	Toluene-d8	10	10.0	102	87.4 - 109



SGS Environmental Services

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

LCS: LCS4113006A

Filename: 1130406.D

Date Analyzed: 11/30/06 11:21 Dilution: 1

LCSD: LCS4113006B

Filename: 1130407.D

Date Analyzed: 11/30/06 11:52 Matrix: Water

COMPOUND	LCS SPIKE (µg/kg)	LCS CONC (µg/kg)	LCS % REC #	LCSD SPIKE (µg/kg)	LCSD CONC (µg/kg)	LCSD % REC #	% RPD	QC LIMITS	
								RPD	REC
benzene	5.00	5.74	115	5.00	5.24	105	9.11	30	77.4-123
chlorobenzene	5.00	4.50	90.0	5.00	4.05	81.0	10.5	30	72.5-128
1,1-dichloroethene	5.00	5.31	106	5.00	4.74	94.8	11.3	30	71.7-128
toluene	5.00	5.36	107	5.00	4.90	98.0	8.97	30	75.9-124
trichloroethene	5.00	5.23	105	5.00	4.92	98.4	6.11	30	77.9-122

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:



SGS Environmental Services

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: g460-89-3a

Dilution: 160

FileNames: 1130421.D, 1130423.D, 1130424.D

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
benzene	2030	800	926	116	800	792	99.0	15.6	30	61.6-135
chlorobenzene	BQL	800	702	87.8	800	654	81.8	7.08	30	77.2-118
1,1-dichloroethene	BQL	800	770	96.2	800	742	92.8	3.60	30	64.4-130
toluene	2700	800	848	106	800	750	93.8	12.2	30	66.4-128
trichloroethene	BQL	800	837	105	800	776	97.0	7.54	30	84.9-136

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW01
 Client Project ID: NV016
 Lab Sample ID: G650-95-11
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 10:40
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW01
 Client Project ID: NV016
 Lab Sample ID: G650-95-11
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 10:40
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.1	91		
2-Fluorophenol		10	9.1	91		
Nitrobenzene-d5		10	9.6	96		
Phenol-d6		10	9.8	98		
2,4,6-Tribromophenol		10	9.3	93		
4-Terphenyl-d14		10	10.4	104		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *EW*



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW01
 Client Project ID: NV016
 Lab Sample ID: G650-95-11
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 10:40
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Hexanedioic acid, bis(2-ethylhexyl) ester	17.20	000103-23-1	91	164
2	Unknown	11.80			12.7
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-MW02
 Client Project ID: NV016
 Lab Sample ID: G650-95-2I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 10:25
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW02
 Client Project ID: NV016
 Lab Sample ID: G650-95-2I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 10:25
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		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	8.8	88		
2,4,6-Tribromophenol		10	9.1	91		
4-Terphenyl-d14		10	10.6	106		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: R. J.



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW02
 Client Project ID: NV016
 Lab Sample ID: G650-95-2I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 10:25
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Hexanedioic acid, bis(2-ethylhexyl) ester	17.20	000103-23-1	91	163
2	Unknown	20.09			19.7
3	Unknown	21.67			19.3
4	Unknown	20.81			18.4
5	Unknown	11.80			11.7
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: *per*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW03
 Client Project ID: NV016
 Lab Sample ID: G650-95-3I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 11:56
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW03
 Client Project ID: NV016
 Lab Sample ID: G650-95-3I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 11:56
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.8	88		
2-Fluorophenol		10	8.3	83		
Nitrobenzene-d5		10	9.2	92		
Phenol-d6		10	9	90		
2,4,6-Tribromophenol		10	8.7	87		
4-Terphenyl-d14		10	11.5	115		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *EW*



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW03
 Client Project ID: NV016
 Lab Sample ID: G650-95-3I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 11:56
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Hexanedioic acid, bis(2-ethylhexyl) ester	17.20	000103-23-1	90	34.2
2	Unknown	15.11			10.5
3	Unknown	11.80			9.82
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: *Paul*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW04
 Client Project ID: NV016
 Lab Sample ID: G650-95-41
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 12:35
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW04
 Client Project ID: NV016
 Lab Sample ID: G650-95-4I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 12:35
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.8	88		
2-Fluorophenol		10	8.2	82		
Nitrobenzene-d5		10	9.2	92		
Phenol-d6		10	8.9	89		
2,4,6-Tribromophenol		10	9.2	92		
4-Terphenyl-d14		10	11.3	113		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *Red*



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW04
 Client Project ID: NV016
 Lab Sample ID: G650-95-4I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 12:35
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Hexanedioic acid, bis(2-ethylhexyl) ester	17.20	000103-23-1	91	331
2	Unknown	11.80			10
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: *ed*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW05
 Client Project ID: NV016
 Lab Sample ID: G650-95-5I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 13:42
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW05
 Client Project ID: NV016
 Lab Sample ID: G650-95-5I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 13:42
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.3	93		
2-Fluorophenol		10	9.4	94		
Nitrobenzene-d5		10	9.8	98		
Phenol-d6		10	10	100		
2,4,6-Tribromophenol		10	9.8	98		
4-Terphenyl-d14		10	11	110		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EW



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW05
 Client Project ID: NV016
 Lab Sample ID: G650-95-5I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 13:42
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.80			13.1
2	Sulfur, mol. (S8)	15.56	010544-50-0	91	7.95
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: BF



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW06
 Client Project ID: NV016
 Lab Sample ID: G650-95-6I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 9:15
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-MW06
 Client Project ID: NV016
 Lab Sample ID: G650-95-6I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 9:15
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.9	89		
2-Fluorophenol		10	8.6	86		
Nitrobenzene-d5		10	9.4	94		
Phenol-d6		10	9.4	94		
2,4,6-Tribromophenol		10	8.4	84		
4-Terphenyl-d14		10	11.7	117		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RV?



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-MW06
 Client Project ID: NV016
 Lab Sample ID: G650-95-6I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 9:15
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.79			9.99
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: *ES*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-Duplicate
 Client Project ID: NV016
 Lab Sample ID: G650-95-71
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 0:00
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB293-Duplicate
 Client Project ID: NV016
 Lab Sample ID: G650-95-71
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/27/2006 0:00
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.3	83		
2-Fluorophenol		10	7.7	77		
Nitrobenzene-d5		10	8.5	85		
Phenol-d6		10	8.7	87		
2,4,6-Tribromophenol		10	7.9	79		
4-Terphenyl-d14		10	10.9	109		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *ed*



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTBB293-Duplicate
 Client Project ID: NV016
 Lab Sample ID: G650-95-7I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/27/2006 0:00
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	5.74			19
2	Unknown	11.80			10
3	Unknown	15.11			7.84
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: *R*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: SBB313
Client Project ID: NV016
Lab Sample ID: G650-95-91
Lab Project ID: G650-95

Analyzed By: EAW
Date Collected: 11/28/2006 14:10
Date Received: 11/29/2006
Date Extracted: 11/30/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/2/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/2/2006	
Anthracene	BQL	10.0	1.75	1	12/2/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/2/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/2/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/2/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/2/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/2/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/2/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/2/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/2/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/2/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/2/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/2/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/2/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/2/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/2/2006	
Chrysene	BQL	10.0	1.11	1	12/2/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/2/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/2/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/2/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/2/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/2/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/2/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/2/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/2/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/2/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/2/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/2/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/2/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/2/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/2/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/2/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/2/2006	
Fluoranthene	BQL	10.0	1.41	1	12/2/2006	
Fluorene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/2/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/2/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/2/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/2/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/2/2006	
Isophorone	BQL	10.0	1.27	1	12/2/2006	
Naphthalene	BQL	10.0	1.08	1	12/2/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/2/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/2/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/2/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/2/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/2/2006	
Phenanthrene	BQL	10.0	1.38	1	12/2/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: SBB313
 Client Project ID: NV016
 Lab Sample ID: G650-95-9I
 Lab Project ID: G650-95

Analyzed By: EAW
 Date Collected: 11/28/2006 14:10
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/2/2006	
Pyrene	BQL	10.0	2.08	1	12/2/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/2/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/2/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.9	89		
2-Fluorophenol		10	8.7	87		
Nitrobenzene-d5		10	9.3	93		
Phenol-d6		10	9.2	92		
2,4,6-Tribromophenol		10	8.4	84		
4-Terphenyl-d14		10	10.7	107		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *Ref*



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: SBB313
 Client Project ID: NV016
 Lab Sample ID: G650-95-9I
 Lab Project ID: G650-95
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: EAW
 Date Collected: 11/28/2006 14:10
 Date Received: 11/29/2006
 Date Extracted: 11/30/2006
 Date Analyzed: 12/1/2007
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Hexanedioic acid, bis(2-ethylhexyl) ester	17.20	000103-23-1	91	59.1
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: *EAW*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB6791
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 11/30/2006
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/5/2006	
Acenaphthylene	BQL	10.0	1.12	1	12/5/2006	
Anthracene	BQL	10.0	1.75	1	12/5/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/5/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/5/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/5/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/5/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/5/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/5/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/5/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/5/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/5/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/5/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/5/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/5/2006	
2-Chlorophenol	BQL	10.0	4.22	1	12/5/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/5/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/5/2006	
Chrysene	BQL	10.0	1.11	1	12/5/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/5/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/5/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	12/5/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	12/5/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	12/5/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/5/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/5/2006	
Diethylphthalate	BQL	10.0	1.48	1	12/5/2006	
Dimethylphthalate	BQL	10.0	1.04	1	12/5/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/5/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/5/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/5/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/5/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/5/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/5/2006	
Diphenylamine *	BQL	10.0	1.53	1	12/5/2006	
Fluoranthene	BQL	10.0	1.41	1	12/5/2006	
Fluorene	BQL	10.0	1.22	1	12/5/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	12/5/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/5/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/5/2006	
Hexachloroethane	BQL	10.0	1.58	1	12/5/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/5/2006	
Isophorone	BQL	10.0	1.27	1	12/5/2006	
Naphthalene	BQL	10.0	1.08	1	12/5/2006	
Nitrobenzene	BQL	10.0	1.32	1	12/5/2006	
2-Nitrophenol	BQL	10.0	3.52	1	12/5/2006	
4-Nitrophenol	BQL	50.0	3.17	1	12/5/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/5/2006	
Pentachlorophenol	BQL	50.0	2.83	1	12/5/2006	
Phenanthrene	BQL	10.0	1.38	1	12/5/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB6791
 Lab Project ID:

Analyzed By: EAW
 Date Collected:
 Date Received:
 Date Extracted: 11/30/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/5/2006	
Pyrene	BQL	10.0	2.08	1	12/5/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/5/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/5/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	6.1	61		
Nitrobenzene-d5		10	8.4	84		
Phenol-d6		10	8.1	81		
2,4,6-Tribromophenol		10	8.1	81		
4-Terphenyl-d14		10	9.2	92		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:



Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-6791-MS/MSD/LCS

Date Extracted: 11/30/07

Lab Project ID:

Date Analyzed: 12/02/06

Matrix: WATER

Analyzed By: MRC

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	233	214	92.1	233	250	108.0	15.4	30	62.0-119
4-Chloro-3-methylphenol	BQL	233	216	92.8	233	242	104.0	11.4	30	67.0-109
2-Chlorophenol	BQL	233	161	69.2	233	228	98.2*	34.6*	30	59.0-95.0
1,4-Dichlorobenzene	BQL	233	98.4	42.3	233	156	67.1	45.3*	30	29.0-86.0
2,4-Dinitrotoluene	BQL	233	248	107*	233	261	112*	5.11	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	233	211	90.8	233	262	113*	21.5	30	67.0-107
4-Nitrophenol	BQL	233	230	99.1	233	249	107.0	7.76	30	49.0-146
Pentachlorophenol	BQL	233	195	83.9	233	217	93.3	10.6	30	43.0-106
Phenol	BQL	233	173	74.4	233	232	99.7	29.1	30	61.0-100
Pyrene	BQL	233	232	99.6	233	234	101.0	0.900	30	41.0-123
1,2,4-Trichlorobenzene	BQL	233	141	60.8	233	212	91.3	40.1*	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	109	109	72.9-127
4-Chloro-3-methylphenol	100	101	101	61.6-113
2-Chlorophenol	100	98.7	98.7	52.3-104
1,4-Dichlorobenzene	100	73.4	73.4	27.3-85.0
2,4-Dinitrotoluene	100	113	113	66.5-117
N-Nitrosodi-n-propylamine	100	112	112	54.4-119
4-Nitrophenol	100	98.3	98.3	32.4-150
Pentachlorophenol	100	82.3	82.3	23.9-115
Phenol	100	99.8	99.8	54.5-106
Pyrene	100	98.8	98.8	63.5-126
1,2,4-Trichlorobenzene	100	93.3	93.3	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

 Client Name: Sovereign Consulting

 Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	91
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: g650-95-1h

 Reviewed By: Red



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

 Client Name: Sovereign Consulting

 Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-2h

 Reviewed By: RJ



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

 Client Name: Sovereign Consulting

 Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW03
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-3h

 Reviewed By: ew



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-4h

Reviewed By: BP



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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: g650-95-5h

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-6h

Reviewed By: RHP



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-7h

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	SBB313
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	11/28/06
Date Received	11/29/06
Date Extracted	11/29/06
Date Analyzed	11/29/06
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	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: g650-95-9h

Reviewed By: RL



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 11/21/06PID Initial Calibration Date: 11/21/06

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (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	21.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	24.00	Calibration Factor
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 11/29/06

Calibration Check

Range	Levels (µg/L) (mg/Kg)		RPD
C ₅ -C ₈ Aliphatics	2000	200	-6.2
C ₉ -C ₁₂ Aliphatics	500	50	-6.4
C ₉ -C ₁₀ Aromatics	500	50	-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



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW01
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/08/06
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	94
Aromatic Surrogate % Recovery	78

Comments:

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

Lab info: G650-95-1L

Reviewed By: RL



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW02
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	77
Aromatic Surrogate % Recovery	74

Comments:

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

Lab info: G650-95-2K

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW03
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	90
Aromatic Surrogate % Recovery	77

Comments:

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

Lab info: G650-95-3K

Reviewed By: xyd



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW04
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	94
Aromatic Surrogate % Recovery	82

Comments:

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

Lab info: G650-95-4K

Reviewed By: SP



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW05
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	89
Aromatic Surrogate % Recovery	79

Comments:

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

Lab info: G650-95-5M

Reviewed By: SGS



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-MW06
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	91
Aromatic Surrogate % Recovery	81

Comments:

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

Lab info: G650-95-6K

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB293-Duplicate
Sample Matrix	Water
Date Collected	11/27/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	93
Aromatic Surrogate % Recovery	80

Comments:

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

Lab info: G650-95-7K

Reviewed By: DB



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV016

Sample Information and Analytical Results	
Sample Identification	SBB313
Sample Matrix	Water
Date Collected	11/28/06
Date Received	11/29/06
Date Extracted	12/07/06
Date Analyzed	12/09/06
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	92
Aromatic Surrogate % Recovery	80

Comments:

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

Lab info: G650-95-9M

Reviewed By: RM



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/24/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L) (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	1.00	Linear Regression
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	0.999	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 12/08/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-5.2
C ₁₉ -C ₃₆ Aliphatics	160	-6.6
C ₁₁ -C ₂₂ Aromatics	340	-19.9

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 Metals**

Client Sample ID: USTBB293-MW01
Client Project ID: NV016
Lab Sample ID: G650-95-1
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 10:40
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00218	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00144	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: USTBB293-MW02
Client Project ID: NV016
Lab Sample ID: G650-95-2
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 10:25
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00324	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00246	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: USTBB293-MW03
Client Project ID: NV016
Lab Sample ID: G650-95-3
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 11:56
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00301	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00194	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS



Results for Metals

Client Sample ID: USTBB293-MW04
 Client Project ID: NV016
 Lab Sample ID: G650-95-4
 Lab Project ID: G650-95
 Batch ID: 6822

Analyzed By: PSW
 Date Collected: 11/27/2006 12:35
 Date Received: 11/29/2006
 Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00271	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00162	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: RW
 MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: USTBB293-MW05
Client Project ID: NV016
Lab Sample ID: G650-95-5
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 13:42
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00233	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00146	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: PSW
MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: USTBB293-MW06
Client Project ID: NV016
Lab Sample ID: G650-95-6
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 9:15
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00249	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00169	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: USTBB293-Duplicate
Client Project ID: NV016
Lab Sample ID: G650-95-7
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/27/2006 0:00
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00286	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00428	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS



Results for Metals

Client Sample ID: SBB313
Client Project ID: NV016
Lab Sample ID: G650-95-9
Lab Project ID: G650-95
Batch ID: 6822

Analyzed By: PSW
Date Collected: 11/28/2006 14:10
Date Received: 11/29/2006
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00218	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00441	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.1.XLS

**Results for Metals**

Client Sample ID: Lab Blank
Client Project ID:
Lab Sample ID: pb6822
Lab Project ID:
Batch ID: 6822

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

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	0.00157	0.0100	0.000310	1	MG/L	6010B	12/6/2006	JB
Lead	0.00254	0.0100	0.00121	1	MG/L	6010B	12/6/2006	JB

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 2-1
MET_LIMS_4.1.XLS



METALS Results for LCS/LCD

ICP Batch: 6822

HG Batch:

Other:

Matrix: WATER

Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC		LCD	LCD %REC		Limit		RPD		RPD Limit
								Lower	Upper			
Chromium	0.400	0.377	94.3		0.379	94.7		80	120	0.529		20
Lead	0.400	0.366	91.5		0.369	92.2		80	120	0.816		20

Reviewed By:



MS/MSD Results for METALS

Lab ID: G650-95-9
 MS Lab ID: G650-95-9
 MSD Lab ID: G650-95-9
 ICP Batch: 6822
 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		RPD	RPD Limit
								Lower	Upper		
Chromium	0.00218	0.400	0.375	93.2	0.400	0.377	93.7	75	125	0.532	20
Lead	0.00441	0.400	0.373	92.1	0.400	0.368	90.9	75	125	1.35	20

Comments

*=Out of Limits

NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: PSW



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

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

% solids = 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.

Locations Nationwide

- Alaska
- Louisiana
- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

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☐ 1270 Greenbrier Street
 Charleston, WV 25311
 Tel: (304) 346-0725 Fax: (304) 346-0761

Yellow - Returned with Report
Pink - Retained by Sampler

APPENDIX C

FIELD DATA

Cond. would
not stabilize
improved —

	Comments
1	Heavy debris -
3	Check total
2	depth on
4	well - Verify
1	TD against
3	data -
	D.O./temp
	wouldn't statistically
	sampled -

Duplicate sample on MW03

[illegible]

