

FINAL
ANNUAL GROUNDWATER MONITORING REPORT 2005-2006
BUILDINGS TT-2477/78

NCDENR Incident Number: 7176

Marine Corps Base
Camp Lejeune, North Carolina

June 19, 2006

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
2L GWQS	Underground Storage Tank Section (Effective July 1, 2001)
AS	NCAC T15A:02L Groundwater Quality Standards
AST	Air Sparge
BDL	Aboveground Storage Tank
BN	Below Detection Limit
BNA	Base/Neutral (extractables)
BQL	Base/Neutral/Acid (extractables)
BLS	Below Quantitation Limit
BTEX	Below Land Surface
CAP	Benzene, Toluene, Ethylbenzene, Xylenes
CFR	Corrective Action Plan
Cr	Code of Federal Regulations
CSA	Chromium
DIPE	Comprehensive Site Assessment
DO	Di-isopropyl Ether
DOD	Dissolved Oxygen
DPT	Department of Defense
DWQ	Direct Push Technology
DWM	Division of Water Quality
DTW	Division of Waste Management
EDB	Depth to Water
EMD	Ethylene di-bromide
EPA	Environmental Management Division
EPH	Environmental Protection Agency
EQB	Extractable Petroleum Hydrocarbons
Fe	Environmental Quality Branch
FID	Iron
FT	Flame Ionization Detector
GCL	Feet
GIS	Gross Contaminant Level
GPS	Geographic Information System
Guidelines Vol. II	Global Positioning System
	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

Buildings TT-2477 and TT-2478 are located in the Tarawa Terrace residential area of MCB, Camp Lejeune, North Carolina. Building TT-2477 is currently utilized as a chapel. It was built in the early 1950s, however, as a full service gas station with vehicle maintenance capabilities. Three underground storage tanks (USTs) were located in the vicinity of this building. A 10,000 gallon gasoline tank, a 500 gallon hydraulic fluid tank, and a 500 gallon heating oil tank were removed from the site in 1992.

Building TT-2478 is currently a Marine Corps Community Services gas station with two pump islands located in front of the building. Four USTs were formerly located north of the pump islands. These included three 10,000-gallon fiberglass USTs used to hold gasoline and one 10,000-gallon UST used to hold diesel fuel. In August and September 1995, the three 10,000-gallon USTs and the associated distribution lines and dispensers were removed.

Various assessments were performed at the site in the early 1990s. Assessment work focused on the tanks at Buildings TT-2477 and TT-2478, as well as tanks located at TT-2453. Building TT-2453 was utilized as a gas station until 1987, when it was then used as a Marine Corps Community Services recreational equipment issue. The building was later demolished in 2001. There were seven USTs in the vicinity of the building, one AST, two hydraulic lifts, and the former dispenser islands and associated UST piping. Six of the tanks were removed from the site in 1987, with the remainder of the systems removed during building demolition in 2001. The Building TT-2453 area was incorporated into the TT-2477/78 site in 2002.

Assessments of the site showed the presence of shallow groundwater contamination. The contaminant plume was identified in the vicinity of TT-2478 and extended southward approximately 800 feet. Contamination was also identified in the TT2453 area, and free product was present at the site.

Law Engineering and Environmental Services, Inc. (Law) prepared a CAP in 1996 that recommended the installation of an AS/SVE system. The system was placed in operation in October 1997 and operated continuously until shut down in May 2004. The system was expanded in March 1998 and again in April 2001 to treat contamination in the vicinity of TT-2453.

CATLIN Engineers and Scientists (CATLIN) conducted an optimization study at the site, dated February 24, 2004. In the report, they recommended to conduct additional soil sampling for Risk Based analyses, shut down the groundwater remediation system, and conduct groundwater sampling to monitor rebound effects. The system was deactivated in May 2004, and post operational monitoring began at the site. Groundwater contaminant levels have been below GCLs at the site throughout the post operational monitoring phase.

During this monitoring period, October 2005 - May 2006, Sovereign Consulting Inc. (Sovereign) conducted monitoring well gauging of 44 site monitoring wells and sampling of 17 wells. The remediation system was inoperable, so system O&M was not conducted. Samples were analyzed for volatiles and semi-volatile compounds via EPA Methods 602 and 625 in accordance with the program scope of work, as well as volatile and extractable hydrocarbons using the MADEP methods.

No measurable free product was identified during the monitoring period. Three volatile and two semi-volatile compounds were detected at the site above North Carolina Groundwater Quality Standards (NCGWQSS). MADEP compounds were also detected above their applicable groundwater standards. All other detections were below 2L standards.

Information on the recommended soil sampling could not be located as of the preparation of this report. As a result, Sovereign recommends the collection of soil samples for Risk Based Analysis in the vicinity of MW01 and MW02 near Building TT-2477, as well the former tank basin sides, transfer piping, and dispenser islands at Building TT-2478. These recommendations mirror what was recommended in the RAO & RCAP report, as well as historical NCDENR letters dated 2004 and 2001. Sovereign also recommends continuing gauging and sampling of existing monitoring program wells on an annual and biennial basis, respectively. If soil data show contamination less than residential MSCCs, the site should qualify for No Further Action status with Land Use Restrictions during the next monitoring period as long as groundwater contamination remains below GCLs. If soil contaminant levels, however, are above residential MSCCs, the need for further remedial action should be evaluated.

1.0 TITLE PAGE

DATE OF REPORT: June 19, 2006

Facility I.D.: TT 2477/78

UST Incident Number: 7176

Site Name: Marine Corps Community Service Station

Site Location: Marine Corps Base Camp Lejeune, North Carolina

Nearest City/Town: Camp Lejeune

County: Onslow

Risk Classification: Low Risk

Land Use Classification: Residential

UST Owner: Commanding Officer – MCB Camp Lejeune

I&E/EMD/EQB

PSC Box 20004

Address: MCB Camp Lejeune, NC 28542-0004

Phone: (910) 451-5068

UST Operator: Same as above

Address: Same as above

Phone: Same as above

Property Owner: Same as above

Address: Same as above

Phone: Same as above

Property Occupant: same as above

Address: same as above

Phone: Same as above

Consultant/Contractor: Sovereign Consulting Inc.

Address: 405 Oakmeads Crescent, Suite 1

Virginia Beach, VA 23464

Phone: (757) 456-5093

Release Information

Date Discovered: Unknown

Estimated Quantity of Release: Unknown

Cause of Release: Unknown

Source of Release (Piping/UST): USTs and piping

Sizes and contents of UST system(s) from which the release occurred: The former system consisted of four 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, one 500-gallon hydraulic/gear oil UST, one 500-gallon heating oil UST, associated piping, and various sized systems in the vicinity of Building TT-2453.

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 groundwater gauging and sampling events at TT 2477 and TT 2478 aboard MCB Camp Lejeune, North Carolina. The data was collected from November 2005 – April 2006. The project's scope of work entailed three gauging events at forty-four (44) groundwater monitoring wells (quarterly) and sampling seventeen (17) groundwater monitoring wells annually. The quarterly gauging activities were conducted to measure and record the depth to free product (if present) and depth to groundwater. The annual sampling event was conducted to analyze the site groundwater for petroleum constituents using USEPA Methods 602, 625, and the Massachusetts Department of Environmental Protection (MADEP) methods. Data for Sovereign's 2006 sampling event, conducted in April, and gauging data for November 2005, January 2006, and April 2006 are presented in this report.

3.0 SITE HISTORY

Buildings TT-2477 and TT-2478 are located in the Tarawa Terrace residential area of MCB, Camp Lejeune, North Carolina (Figure 1). Building TT-2477 is on the west side of Iwo Jima Boulevard, approximately 600 feet north of its intersection with Tarawa Boulevard. Building TT-2478 is approximately 250 feet further north on the same side of Iwo Jima Boulevard.

Building TT-2477 is currently utilized as a chapel. It was built in the early 1950s, however, as a full service gas station with vehicle maintenance capabilities. Three underground storage tanks (USTs) were located in the vicinity of this building. A 10,000 gallon gasoline tank, a 500 gallon hydraulic fluid tank, and a 500 gallon heating oil tank were removed from the site in 1992.

Building TT-2478 is currently a Marine Corps Community Services gas station with two pump islands located in front of the building. Four USTs were formerly located north of the pump islands. These included three 10,000-gallon fiberglass USTs used to hold gasoline and one 10,000-gallon UST used to hold diesel fuel. In August and September 1995, the three 10,000-gallon USTs and the associated distribution lines and dispensers were removed. During the UST removal, approximately 578 tons of petroleum-contaminated gravel and soil was excavated and disposed of offsite.

Various assessments were performed at the site in the early 1990s. A list of the reports are included in Appendix A. Assessment work focused on the tanks at Buildings TT-2477 and TT-2478, as well as tanks located at TT-2453. Building TT-2453 was utilized as a gas station until 1987, when it was then used as a Marine Corps Community Services recreational equipment issue. The building was later demolished in 2001. There were seven USTs in the vicinity of the building, one AST, two hydraulic lifts, and the former dispenser islands and associated UST piping. Six of the tanks were removed from the site in 1987, with the remainder of the systems removed during building demolition in 2001. The Building TT-2453 area was incorporated into the TT-2477/78 site in 2002.

Assessments of the site showed the presence of shallow groundwater contamination. The contaminant plume was identified in the vicinity of TT-2478 and extended southward approximately 800 feet. Contaminant levels in the TT-2477 area were to a much lesser extent, and contamination was also identified in the TT2453 area.

Free product was identified as a problem at the site. A layer of free product was detected in the vicinity of the USTs at Building TT-2478. A free product recovery system was installed in the area, and from 1993 through mid 1997, the recovery system collected approximately 229 gallons of free product. Free product recovery was also performed at Building TT-2477. From mid 1994 to early 1995, approximately 1 gallon of free product was recovered.

Law Engineering and Environmental Services, Inc. (LAW) prepared a CAP in 1996 that recommended the installation of an AS/SVE system. The system was placed in operation in October 1997 and operated continuously until shut down in May 2004. The system was expanded in March 1998 and again in April 2001 to treat contamination in the vicinity of TT-2453.

CATLIN conducted an optimization study at the site, dated February 2004, to review the effectiveness of the remedial action at the site. The 2004 optimization report concluded that the remediation system was effective in reducing petroleum constituent concentrations at the site. CATLIN recommended in the report to conduct additional soil sampling for Risk Based analyses, shut down the groundwater remediation system, and conduct groundwater sampling to monitor rebound effects. The system was subsequently deactivated in May 2004. Shaw conducted post operational monitoring at the site in April and October 2004. Groundwater contaminants remained below GCLs at the site. Historical data tables are included in Appendix A. The soil sampling recommended in the optimization report has not yet been conducted as of the preparation of this report.

During this monitoring period, October 2005 - May 2006, Sovereign Consulting Inc. (Sovereign) conducted monitoring well gauging and sampling of site monitoring wells based on the scope of work for NAVFAC Midlant Contract # N62470-04-D-0205 CTO 0007. The remediation system was inoperable, so system O&M was not conducted. The following wells were gauged monthly: 2477-MW01 - 2477-MW14, 2477-MWOB01, 2477-MWOB10, 2478-PW01, 2478-MW01 - 2478-MW07, 2478-MW09, 2478-MW10, 2478-MW12, 2478-MW13, 2478-MW14, 2478-MW14D, 2478-MW15, 2478-MW16, 2478-MW17, 2478-MW17D, 2478-MW18, 2478-MW19, 2478-MW20, 2478-MW21D, 2478-MW22 - 2478-MW25, 2478-MWSS100, and 2478-MWPVC101. A total of 17 wells were sampled as part of the April 2006 groundwater sampling event - 2477-MW01, 2477-MW02, 2477-MW06, 2477-MW11, 2477-MW14, 2477-MWOB01, 2477-MWOB10, 2477-MWPVC101, 2478-MW17, 2478-MW17D, 2478-MW18, 2478-MW19, 2478-MW20, 2478-MW21D, 2478-MW23, 2478-MW24, and 2478-MWSS100. Samples were analyzed for volatiles and semi-volatile compounds via EPA Methods 602 and 625 in accordance with the program scope of work, as well as volatile and extractable hydrocarbons using the MADEP methods.

4.0 GAUGING AND SAMPLING RESULTS

The field program for the Buildings TT2477 and TT2478 site consists of quarterly gauging of approximately 44 wells and annual groundwater sampling of 17 monitoring wells. Activities were conducted in accordance with NCDENR guidance.

4.1 WELL GAUGING

Approximately forty-four (44) groundwater monitoring wells were included in the post-operational gauging activities. Wells were gauged in November 2005, January 2006 and April 2006 using an oil water interface probe capable of measuring the depth to water and depth to product (if present) to the nearest 0.01 foot. Gauging data for each well was recorded and referenced to each well's surveyed top of casing, where available. This data is summarized in Tables 2 and 3. No measurable free product was detected at any site well designated for gauging during the 2005-2006 monitoring program. Based on the groundwater elevations, the overall groundwater flow direction is generally to the south. Figures 4, 5 and 6 show the groundwater flow direction across the site for the November 2005, January 2006 and April 2006 gauging events, respectively.

4.2 GROUNDWATER SAMPLING

The annual groundwater sampling event was conducted in April 2006. For this sampling event, groundwater was collected from seventeen (17) groundwater monitoring wells using low-flow purging and sampling methods. Samples were collected after water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen and turbidity) were recorded and had stabilized. Copies of the field measurements are included in Appendix C. Groundwater was transferred from each well to the laboratory-prepared sample bottles via the polyethylene discharge tubing. The samples were kept in an iced cooler and sent under chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, NC (NC Certification Number 481). At SGS, the samples were analyzed for the following parameters:

- VOCs - EPA Method 602
- SVOC - EPA Method 625 and 10 largest non-detect peaks (TICs)
- VPH and EPH - MADEP Methods

The laboratory report and chain of custody documentation for the April 2006 sampling event are included in Appendix B. The analytical data for the April 2006 sampling event is summarized in Table 4, and the detected concentrations for each analytical method are presented in Figure 7.

Benzene, ethylbenzene, and total xylenes were detected in monitoring wells 2477-MWOB01, 2477-MWOB10, 2477-MWPVC101, and 2478-MW18 at concentrations above the NCGWQSs. With the exception of 2478-MW18, these are all in the vicinity of Building TT-2453. Monitoring well 2478-MW18 is located in the central portion of the site.

Bis(2-ethylhexyl)phthalate and naphthalene were also detected above 2L groundwater quality standards in wells 2477-MWOB01 and 2477-MWPVC101, as well as 2477-MW01 and 2477-MW02. C₅-C₈ aliphatics and C₉-C₂₂ aromatics were reported at concentrations of 1,100 µg/L and <360 µg/L, respectively, in monitoring well 2477-MWOB01. C₉-C₁₈ aliphatics and C₉-C₂₂ aromatics concentrations were also present above NCGWQSs in well 2477-MWPVC101. Finally, 2478-MW20 exhibited a C₉-C₂₂ aromatics concentration of <440 µg/L, as compared to the standard of 210 µg/L. Only shallow wells exhibited contaminant concentrations. Neither of the two deep wells sampled, 2478-MW17D or 2478-MW21D, contained compounds above the laboratory detection limits.

Field duplicate samples were collected and laboratory-prepared trip blanks were analyzed as QC samples. The trip blanks were analyzed for VOCs only. No VOCs were detected in the trip blanks. The duplicate sample results were comparable to its counterpart.

Other QC samples were run by the lab as required by the analytical methods. These QC samples include laboratory control spikes, method blanks, prep blanks, etc. The data was validated by reviewing sample holding times, analytical data, internal standards, calibrations, etc. The validation indicated that the data are usable for project purposes.

5.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and concluded that the receptor survey previously completed by CATLIN RAO & RCAP dated February 24, 2004 still applies. There has been no change in receptor impact, and there have been no changes to land use of the site or the surrounding areas. The site was ranked as a low risk site with residential land use, and there are no water supply wells in the area.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on fieldwork and laboratory analytical data gathered during the 2005-2006 monitoring period, the following conclusions are presented.

1. Previous investigations indicate petroleum constituent concentrations in vadose zone soils at the site have not been fully investigated as of the preparation of this report. The 2004 CATLIN RAO & RCAP suggests soil samples be taken at TT-2477 and TT-2478.
2. Shallow surficial groundwater aquifer flow is generally to the south.
3. No measurable free product was observed at any site well during the monitoring period.
4. VOCs, SVOCs and MADEP compounds were detected above NCGWQSs in seven site groundwater monitoring wells; however, none of these constituents were detected above the GCLs.

Sovereign recommends the collection of soil samples for Risk Based Analysis in the vicinity of MW01 and MW02 near Building TT-2477, as well as the former tank basin sides, transfer piping, and dispenser islands at Building TT-2478. These recommendations duplicate what was recommended in the RAO & RCAP report, as well as historical NCDENR letters dated 2004 and 2001. Sovereign also recommends continuing gauging and sampling of existing monitoring program wells on an annual and biennial basis, respectively. If soil data show contamination less than residential MSCCs, the site should qualify for No Further Action status with Land Use Restrictions as long as groundwater contamination remains below GCLs. If soil contaminant levels, however, are above residential MSCCs, further remedial action may be necessary and should be evaluated.

7.0 REFERENCES

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

CATLIN Engineers and Scientists, *Remedial Action Optimization and Revised Corrective Action Plan, Building TT2477-78, Marine Corps Base Camp, Lejeune, North Carolina*, February 24, 2004.

Groundwater Technology Government Services, Inc., *Three Well Site Check Report Former UST 2477-3, Building TT-2477, Marine Corps Base, Camp Lejeune, NC*, October 14, 1993.

Law Engineering and Environmental Services, Inc., *Leaking Underground Storage Tank Site Assessment Report, Building TT-2477, Marine Corps Base, Camp Lejeune, North Carolina*, April 1, 1995.

Law Engineering and Environmental Services, Inc., *Leaking Underground Storage Tank Site Assessment Report, Building TT-2478, Marine Corps Base, Camp Lejeune, North Carolina*, March 22, 1994.

Law Engineering and Environmental Services, *Corrective Action Plan For The Recovery Of Free Product And The Restoration Of Petroleum Contaminated Soil And Groundwater Bldgs TT-2477 and TT-2478, Marine Corps Base, Camp Lejeune, North Carolina*, March 20, 1996.

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

R.E. Wright Associates, Inc., *Two Well Site Check, Marine Corps Base, Camp Lejeune, North Carolina, Building TT-2477*, March 1994.

Shaw Environmental and Infrastructure, Inc., *FINAL 2002 Annual Monitoring Report, TT2477/78, Marine Corps Base, Camp Lejeune, North Carolina*, July 2003.

Shaw Environmental and Infrastructure, Inc., *FINAL 2004 Annual Monitoring Report, TT2477/78, Marine Corps Base, Camp Lejeune, North Carolina*, July 2005.

TABLES

TABLE 1
WELL CONSTRUCTION INFORMATION
Incident Number and Name: 7176 - Buildings TT2477 and TT2478

Monitoring Well	Well Type	Top of Casing Elevation (feet)
UST TT2477-MW01	Type II	25.18
UST TT2477-MW02	Type II	25.09
UST TT2477-MW03	Type II	Unknown
UST TT2477-MW04	Type II	Unknown
UST TT2477-MW05	Type II	Unknown
UST TT2477-MW06	Type II	24.52
UST TT2477-MW07	Type III	24.83
UST TT2477-MW08	Type II	24.57
UST TT2477-MW09	Type II	25.44
UST TT2477-MW10	Type II	26.28
UST TT2477-MW11	Type III	26.32
UST TT2477-MW12	Type III	26.23
UST TT2477-MW13	Type II	26.25
UST TT2477-MW14	Type II	22.93
UST TT2478-PW01	Type II	24.15
UST TT2478-MW01	Type II	23.96
UST TT2478-MW02	Type II	24.04
UST TT2478-MW03	Type II	24.03
UST TT2478-MW04	Type II	24.42
UST TT2478-MW05	Type II	24.20
UST TT2478-MW06	Type II	24.33
UST TT2478-MW07	Type II	Unknown
UST TT2478-MW08	Type II	23.90
UST TT2478-MW09	Type II	21.48
UST TT2478-MW10	Type II	21.27
UST TT2478-MW11	Type II	21.43
UST TT2478-MW11D	Type III	21.51
UST TT2478-MW12	Type II	22.07
UST TT2478-MW13	Type II	24.38
UST TT2478-MW14	Type II	23.68
UST TT2478-MW14D	Type III	23.75
UST TT2478-MW15	Type II	24.11
UST TT2478-MW16	Type II	22.72
UST TT2478-MW17	Type II	25.07
UST TT2478-MW17D	Type III	25.23
UST TT2478-MW18	Type II	25.60
UST TT2478-MW19	Type II	24.92
UST TT2478-MW20	Type II	26.05
UST TT2478-MW21D	Type III	26.74
UST TT2478-MW22	Type II	23.03
UST TT2478-MW23	Type II	21.81
UST TT2478-MW24	Type II	23.06
UST TT2478-MW25	Type II	25.34
UST TT2477-MW-OB-01	Type II	27.96
UST TT2477-MW-OB-10	Type II	24.66
UST TT2478-MW-SS-100	Type II	26.73
UST TT2477-MW-PVC-101	Type II	26.89

TABLE 2
GROUNDWATER ELEVATION DATA
SEPTEMBER 2005 - APRIL 2006

Incident Number and Name: 7176 - Buildings TT2477 and TT2478

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		11/07/05	01/18/06	04/13/06
UST TT2477-MW01	25.18	13.12	11.85	12.42
UST TT2477-MW02	25.09	12.41	Not Calculated	Not Calculated
UST TT2477-MW03	Unknown	Not Calculated	Not Calculated	Not Calculated
UST TT2477-MW04	Unknown	Not Calculated	Not Calculated	Not Calculated
UST TT2477-MW05	Unknown	Not Calculated	Not Calculated	Not Calculated
UST TT2477-MW06	24.52	12.14	11.57	12.19
UST TT2477-MW07	24.83	11.63	12.10	12.35
UST TT2477-MW08	24.57	12.31	11.25	12.44
UST TT2477-MW09	25.44	11.54	10.96	12.02
UST TT2477-MW10	26.28	10.73	10.16	10.96
UST TT2477-MW11	26.32	10.74	10.18	4.42
UST TT2477-MW12	26.23	9.78	9.53	Not Calculated
UST TT2477-MW13	26.25	10.08	9.51	Not Calculated
UST TT2477-MW14	22.93	9.61	9.07	Not Calculated
UST TT2478-PW01	24.15	14.30	13.90	14.79
UST TT2478-MW01	23.96	14.39	Not Calculated	14.58
UST TT2478-MW02	24.04	Not Calculated	Not Calculated	Not Calculated
UST TT2478-MW03	24.03	14.11	13.57	14.24
UST TT2478-MW04	24.42	Not Calculated	14.44	Not Calculated
UST TT2478-MW05	24.2	14.09	13.62	Not Calculated
UST TT2478-MW06	24.33	14.01	13.43	14.14
UST TT2478-MW07	Unknown	Not Calculated	Not Calculated	Not Calculated
UST TT2478-MW08	23.90	Not Calculated	Not Calculated	Not Calculated
UST TT2478-MW09	21.48	12.90	12.33	12.90
UST TT2478-MW10	21.27	11.05	10.42	11.06
UST TT2478-MW11	21.43	Not Calculated	Not Calculated	Not Calculated
UST TT2478-MW11D	21.51	Not Calculated	Not Calculated	Not Calculated
UST TT2478-MW12	22.07	12.04	11.44	Not Calculated
UST TT2478-MW13	24.38	13.31	12.68	13.98
UST TT2478-MW14	23.68	13.47	Not Calculated	13.63
UST TT2478-MW14D	23.75	13.48	Not Calculated	14.10
UST TT2478-MW15	24.11	14.26	13.61	14.30
UST TT2478-MW16	22.72	11.17	10.78	11.97
UST TT2478-MW17	25.07	10.77	10.31	11.06
UST TT2478-MW17D	25.23	11.08	10.38	11.41
UST TT2478-MW18	25.6	11.33	Not Calculated	11.84
UST TT2478-MW19	24.92	12.11	11.48	12.39
UST TT2478-MW20	26.05	8.30	7.84	Not Calculated
UST TT2478-MW21D	26.74	8.73	8.26	8.99
UST TT2478-MW22	23.03	7.25	6.89	Not Calculated
UST TT2478-MW23	21.81	6.26	6.00	Not Calculated
UST TT2478-MW24	23.06	6.78	Not Calculated	6.83
UST TT2478-MW25	25.34	8.43	8.01	8.43
UST TT2477-MW-OB-01	27.96	8.81	8.33	Not Calculated
UST TT2477-MW-OB-10	24.66	5.76	5.35	8.73
UST TT2478-MW-SS-100	26.73	8.38	7.95	8.34
UST TT2477-MW-PVC-101	26.89	7.64	7.26	7.70

NM = Well not measured; either not accessible or not designated as part of gauging program.

Not Calculated due to insufficient data or well not measured.

Unknown Top of Casing Elevation

TABLE 3
PRODUCT THICKNESS DATA
SEPTEMBER 2005 - APRIL 2006

Incident Number and Name: 7176 - Buildings TT2477 and TT2478

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		11/07/05	01/18/06	04/13/06
UST TT2477-MW01	25.18	--	--	--
UST TT2477-MW02	25.09	--	NM	NM
UST TT2477-MW03	Unknown	--	--	--
UST TT2477-MW04	Unknown	--	--	--
UST TT2477-MW05	Unknown	--	--	--
UST TT2477-MW06	24.52	--	--	--
UST TT2477-MW07	24.83	--	--	--
UST TT2477-MW08	24.57	--	--	--
UST TT2477-MW09	25.44	--	--	--
UST TT2477-MW10	26.28	--	--	--
UST TT2477-MW11	26.32	--	--	--
UST TT2477-MW12	26.23	--	--	NM
UST TT2477-MW13	26.25	--	--	NM
UST TT2477-MW14	22.93	--	--	NM
UST TT2478-PW01	24.15	--	--	--
UST TT2478-MW01	23.96	--	NM	--
UST TT2478-MW02	24.04	NM	NM	NM
UST TT2478-MW03	24.03	--	--	--
UST TT2478-MW04	24.42	NM	--	NM
UST TT2478-MW05	24.2	--	--	NM
UST TT2478-MW06	24.33	--	--	--
UST TT2478-MW07	Unknown	NM	NM	NM
UST TT2478-MW08	23.90	NM	NM	NM
UST TT2478-MW09	21.48	--	--	--
UST TT2478-MW10	21.27	--	--	--
UST TT2478-MW11	21.43	NM	NM	NM
UST TT2478-MW11D	21.51	NM	NM	NM
UST TT2478-MW12	22.07	--	--	NM
UST TT2478-MW13	24.38	--	--	--
UST TT2478-MW14	23.68	--	NM	--
UST TT2478-MW14D	23.75	--	NM	--
UST TT2478-MW15	24.11	--	--	--
UST TT2478-MW16	22.72	--	--	--
UST TT2478-MW17	25.07	--	--	--
UST TT2478-MW17D	25.23	--	--	--
UST TT2478-MW18	25.6	--	NM	--
UST TT2478-MW19	24.92	--	--	--
UST TT2478-MW20	26.05	--	--	NM
UST TT2478-MW21D	26.74	--	--	--
UST TT2478-MW22	23.03	--	--	NM
UST TT2478-MW23	21.81	--	--	NM
UST TT2478-MW24	23.06	--	NM	--
UST TT2478-MW25	25.34	--	--	--
UST TT2477-MW-OB-01	27.96	--	--	NM
UST TT2477-MW-OB-10	24.66	--	--	--
UST TT2478-MW-SS-100	26.73	--	--	--
UST TT2477-MW-PVC-101	26.89	--	--	--

"--" = No measurable free product present.

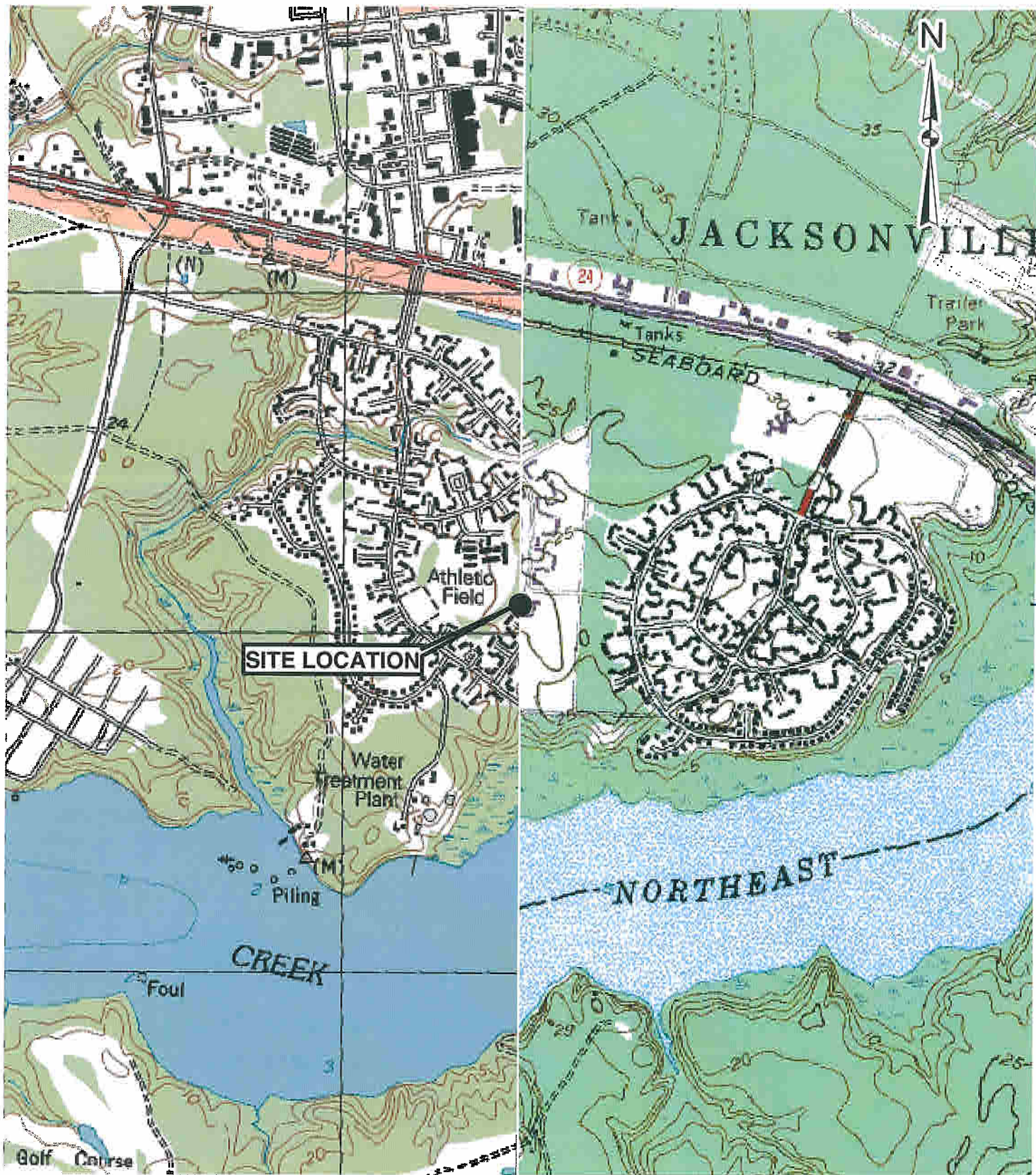
NM = Well not measured; either not accessible or not designated as part of gauging program.

TABLE 4
ANALYTICAL DATA FOR APRIL 2006 GROUNDWATER SAMPLING EVENT
Incident Number and Name: 7176 - Buildings TT2477 and TT2478

Parameter	NCGWQS	GCL	2477-MWOB01	2477-MWOB10	2477-MW02	2477-MW06	2477-MW11	2477-MW14	2478-MW17	2478-MW17D	2478-MW18	2478-MW19	2478-MW20	2478-MW21D	2478-MW23	2478-MW24	2478-MWSS100
VOCs by EPA Method 602 (µg/L)																	
Benzene	1	5,000	BOL	13.6	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Diisopropyl ether (DIPE)	70	70,000	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2.6GJ	BOL	BOL	BOL	BOL
Ethylbenzene	550	84,500	256	59.4	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	86.6	BOL	BOL	BOL	BOL
Methyl Tert Butyl Ether	200	200,000	BOL	BOL	6.3	BOL	BOL	BOL	BOL	BOL	BOL	BOL	3.84J	BOL	BOL	BOL	BOL
Toluene	1,000	257,500	591	18.9	BOL	4.85	BOL	BOL	BOL	BOL	1.17	BOL	90.4	BOL	BOL	BOL	BOL
Xylenes (total)	530	87,500	851	94.5	0.778J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	310	BOL	BOL	BOL	BOL
SVOCs by EPA Method 625 (µg/L)																	
Acenaphthene	80	2,120	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Bis(2-chlorophenyl)phthalate	3	3,000	71.0J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Diethylphthalate	5,000	NE	BOL	BOL	4.90J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Fluorene	280	280	BOL	BOL	1.80J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Naphthalene	21	13,500	68.4	7.30J	3.11	BOL	BOL	BOL	BOL	BOL	BOL	BOL	10.9	BOL	BOL	BOL	BOL
Phenol	300	NE	BOL	11.1	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	85.6	BOL	BOL	BOL	BOL
TPCs (Total)			1,445.90	163.38	1,187.70	35.34	BOL	BOL	BOL	BOL	BOL	BOL	75.3	BOL	BOL	BOL	BOL
PHH (µg/L)																	
C5 - C8 Aliphatics	420	NE	1,100	220	4,200	4,200	<100	<100	<100	<100	120	210	650	<100	<100	<100	<100
C9 - C12 Aliphatics			940	180	6,000	2,100	<100	<100	<100	<100	<100	<100	640	<100	<100	<100	<100
C9 - C10 Aromatics			260	<100	2,100	<100	<100	<100	<100	<100	<100	<100	340	<100	<100	<100	<100
EPH (µg/L)																	
C11 - C22 Aromatics			<100	<100	450	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C9 - C18 Aliphatics			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C19 - C26 Aliphatics	42,000	NE	<100	<100	190	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHH + EPH (µg/L)																	
C9 - C12 + C9 - C18 Aliphatics	4,200	NE	<1,040	<280	<6,100	100	<200	<200	<200	<200	<200	<200	<740	<200	<200	<200	<200
C9 - C10 + C11 - C22 Aromatics	210	NE	<360	<200	2,550	<200	<200	<200	<200	<200	<200	<200	<440	<200	<200	<200	<200

Bold type indicates detectable concentrations.
Bold and shaded type indicates detectable concentrations above the NCGWQS.
 NCGWQS - North Carolina Groundwater Quality Standard
 GCL - Gross Contaminant Level
 <# - not detected at the indicated reporting limit
 µg/L - micrograms per liter
 NE - Not established
 RL - the NCGWQS for the constituent is the reporting limit
 BQL - Below Quantitation Limits; see lab report for specific limits.
 J - estimated concentration between minimum detection limit and reporting limit

FIGURES



400 200 0 400 Feet

SCALE

From: USGS Jacksonville South, NC. Topographic Quadrangle (Dated 1997)



SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT

DRAFT
ANNUAL GROUNDWATER
MONITORING REPORT
BUILDING TT-2477/78 MCB
CAMP LEJEUNE, NC

TITLE

**GENERAL VICINITY TOPOGRAPHIC
SITE MAP**

FIGURE

1

JOB NO.

206-063

DATE

JUNE 2006

SCALE

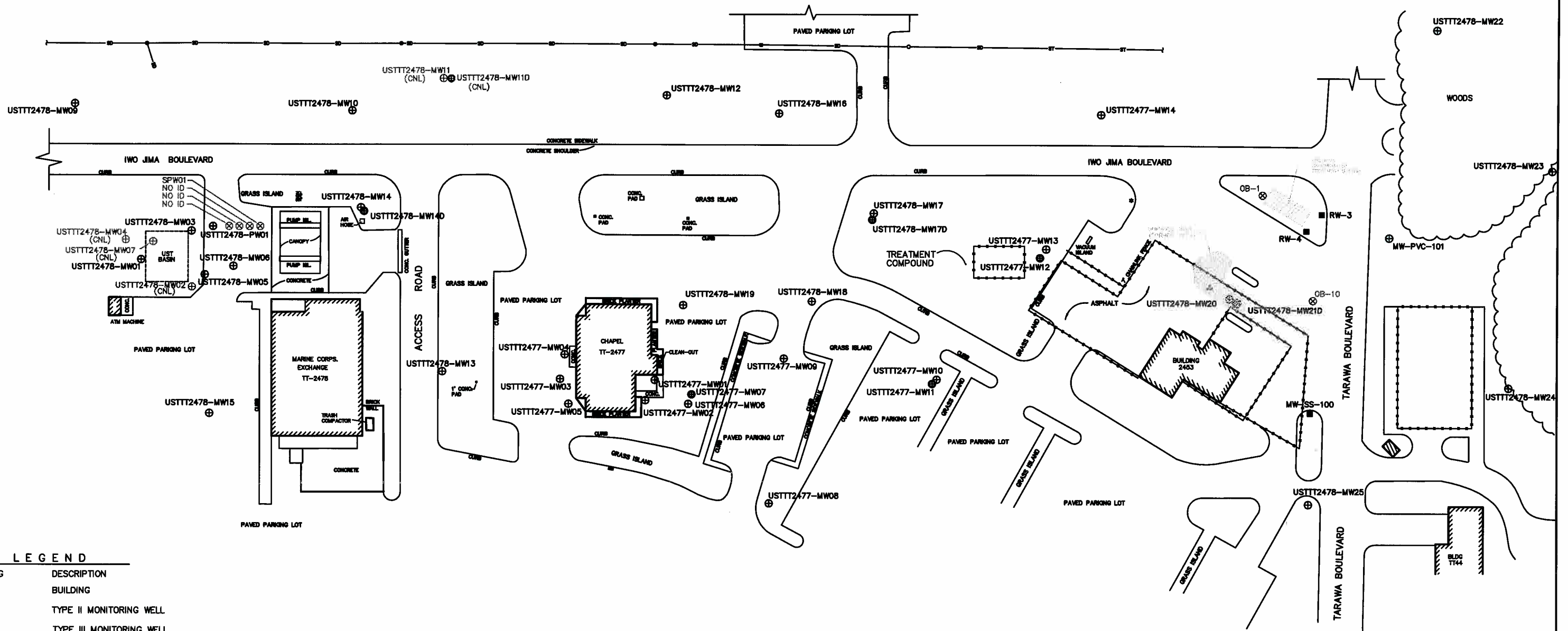
1"=400'

DRAWN BY

LCJ

CHECKED BY

CWR



LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE II MONITORING WELL
	TYPE III MONITORING WELL
	OBSERVATION WELL
	CHAIN LINK FENCE
	UNKNOWN WELL TYPE
NO ID	NO IDENTIFICATION
CNL	COULD NOT LOCATE; ASSUME TO BE ABANDONED

80 40 0 80
SCALE IN FEET



SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT DRAFT
ANNUAL GROUNDWATER
MONITORING REPORT
BUILDING TT-2477-78
CAMP LEJEUNE, N.C.

JOB NO. 206-063 DATE: JUNE 2006

TITLE
SITE MAP WITH
MONITORING WELL LOCATIONS

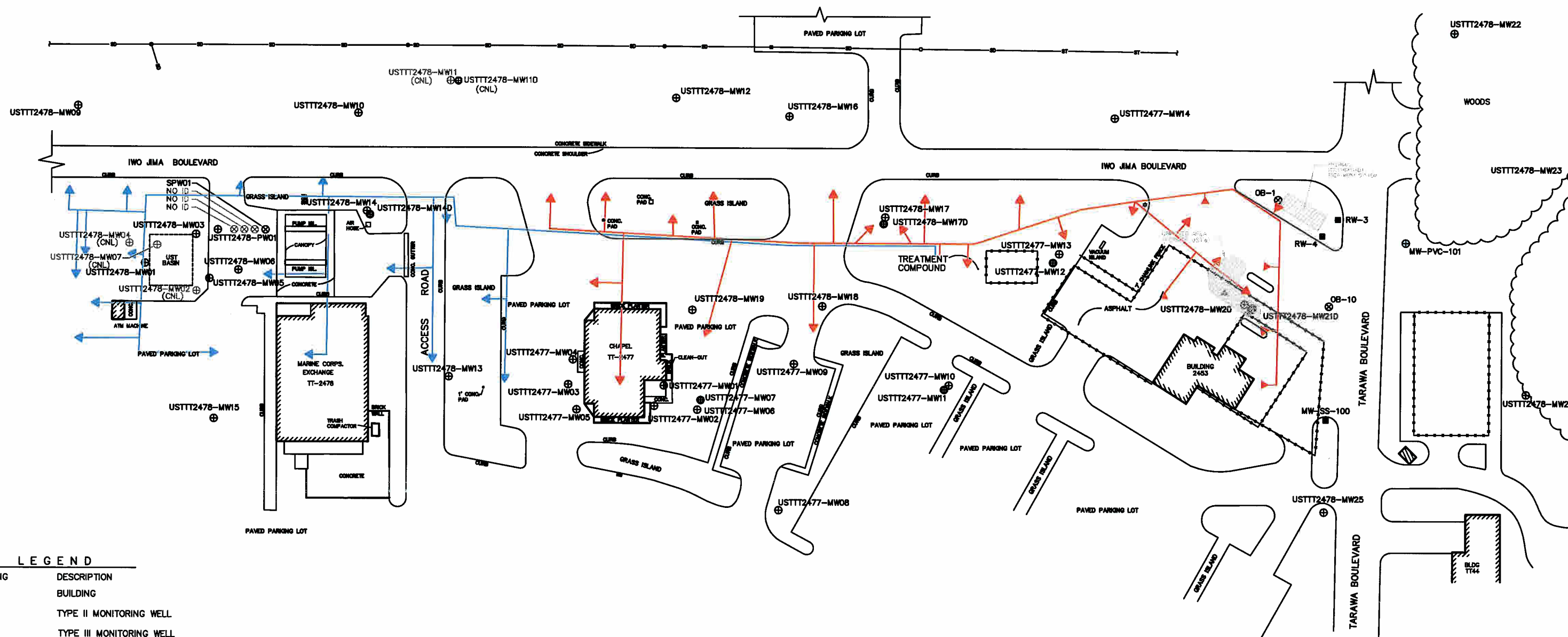
SCALE: 1"=80' DRAWN BY: LCJ CHECKED BY: CWR

FIGURE

2

NOTE:
1. MAP ADAPTED FROM SHAW ENVIRONMENTAL, INC.

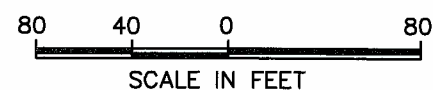
206063-TT2477-78-02



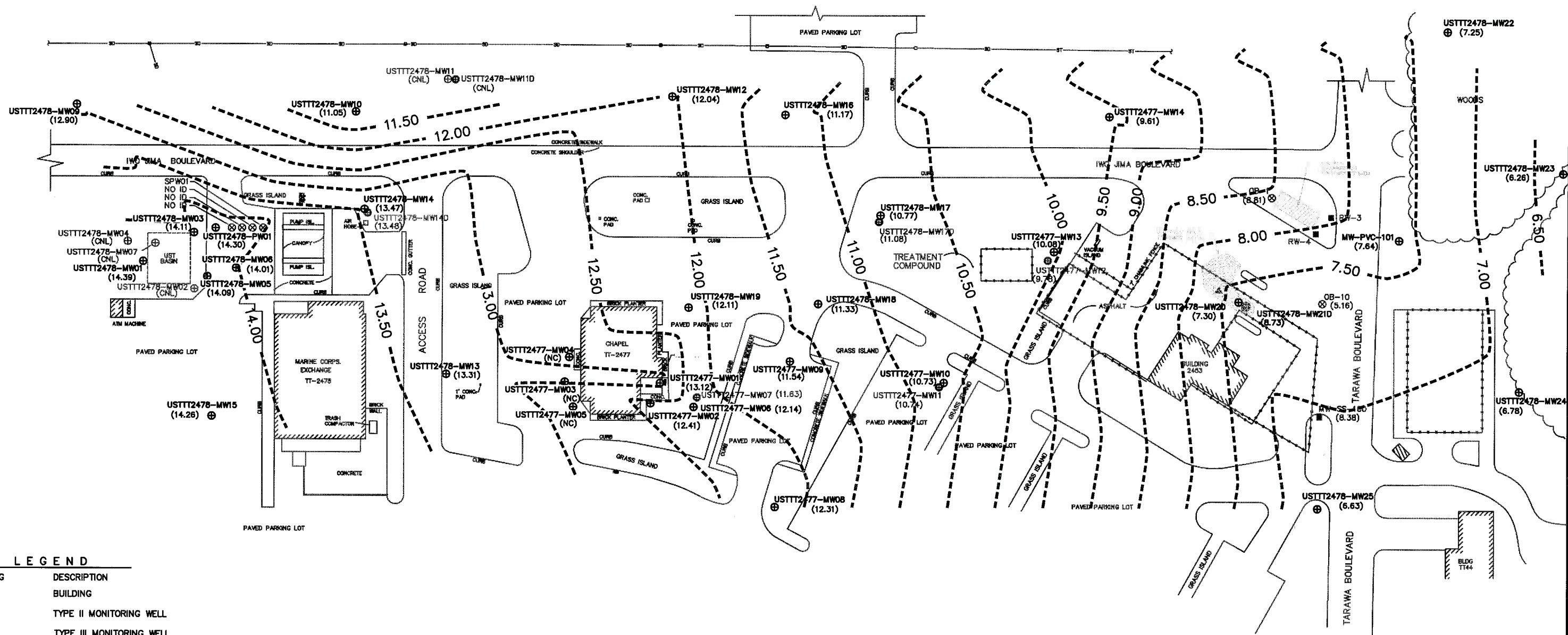
LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE II MONITORING WELL
	TYPE III MONITORING WELL
	OBSERVATION WELL
	UNKNOWN WELL TYPE
	AIR SPARGE/SVE WELL
	AS/SVE FIELD 1
	AS/SVE FIELD 2
	CHAIN LINK FENCE
NO ID	NO IDENTIFICATION
CNL	COULD NOT LOCATE; ASSUME TO BE ABANDONED

NOTES:
1. MAP ADAPTED FROM SHAW ENVIRONMENTAL, INC.
2. REMEDIATION SYSTEM LAYOUT PROVIDED BY SHAW ENVIRONMENTAL, FINAL 2002 ANNUAL MONITORING REPORT.



	SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA		PROJECT DRAFT ANNUAL GROUNDWATER MONITORING REPORT BUILDING TT-2477-78 CAMP LEJEUNE, N.C.	TITLE SITE MAP WITH REMEDIATION SYSTEM LAYOUT	FIGURE 3
	JOB NO. 206-063	DATE: JUNE 2006	SCALE: 1"=80'	DRAWN BY: LCJ	CHECKED BY: CWR

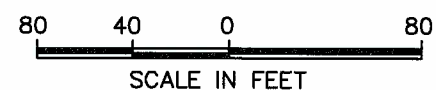


LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE II MONITORING WELL
	TYPE III MONITORING WELL
	OBSERVATION WELL
	CHAIN LINK FENCE
	UNKNOWN WELL TYPE
NO ID	NO IDENTIFICATION
CNL	COULD NOT LOCATE; ASSUME TO BE ABANDONED
NC	NOT CALCULATED

NOTE:

1. MAP ADAPTED FROM SHAW ENVIRONMENTAL, INC.
2. ONLY TYPE II WELLS USED FOR GROUNDWATER ELEVATION CONTOURING PURPOSES.

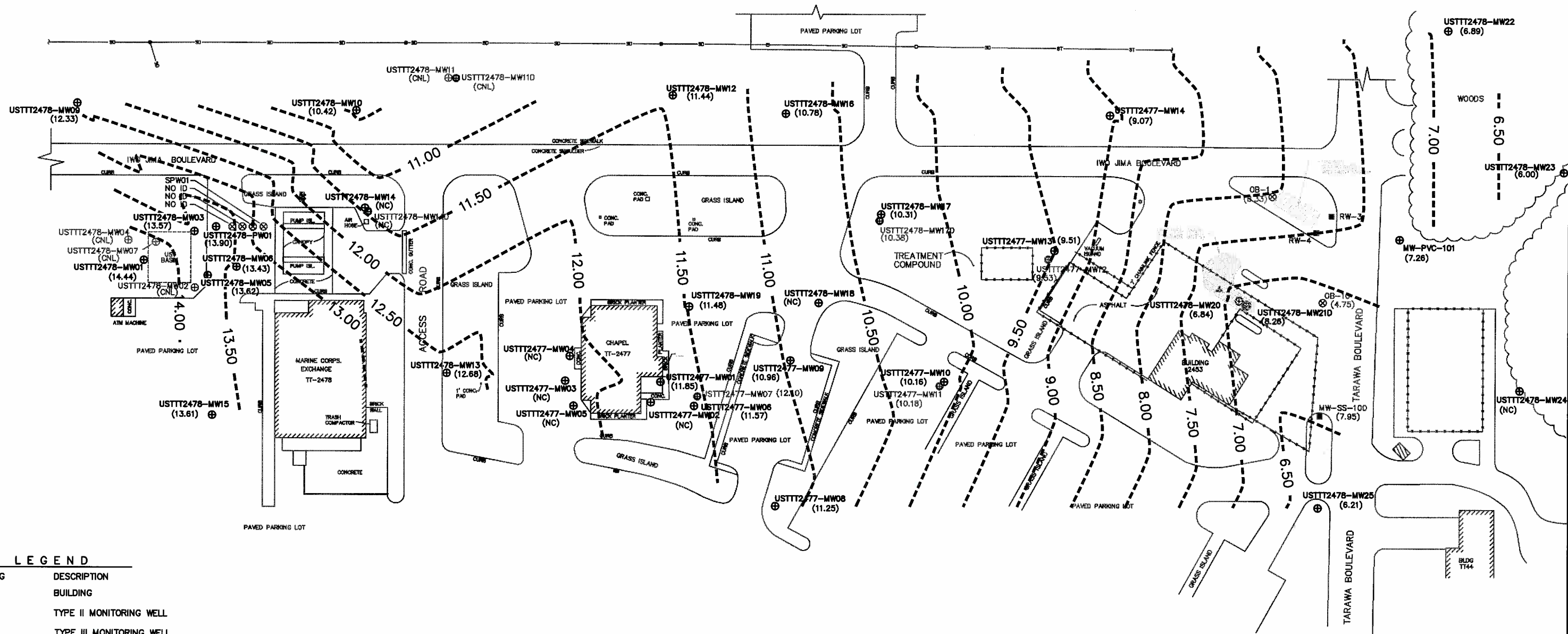


SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT		DRAFT ANNUAL GROUNDWATER MONITORING REPORT BUILDING TT-2477-78 CAMP LEJEUNE, N.C.		TITLE		SHALLOW WELL GROUNDWATER ELEVATIONS - NOVEMBER 2005		FIGURE	
JOB NO.	206-063	DATE	JUNE 2006	SCALE	1"=80'	DRAWN BY	LCJ	CHECKED BY	CWR

4

206063-TT2477-78-04



NOTE:
1. MAP ADAPTED FROM SHAW ENVIRONMENTAL, INC.
2. ONLY TYPE II WELLS USED FOR GROUNDWATER ELEVATION CONTOURING PURPOSES.

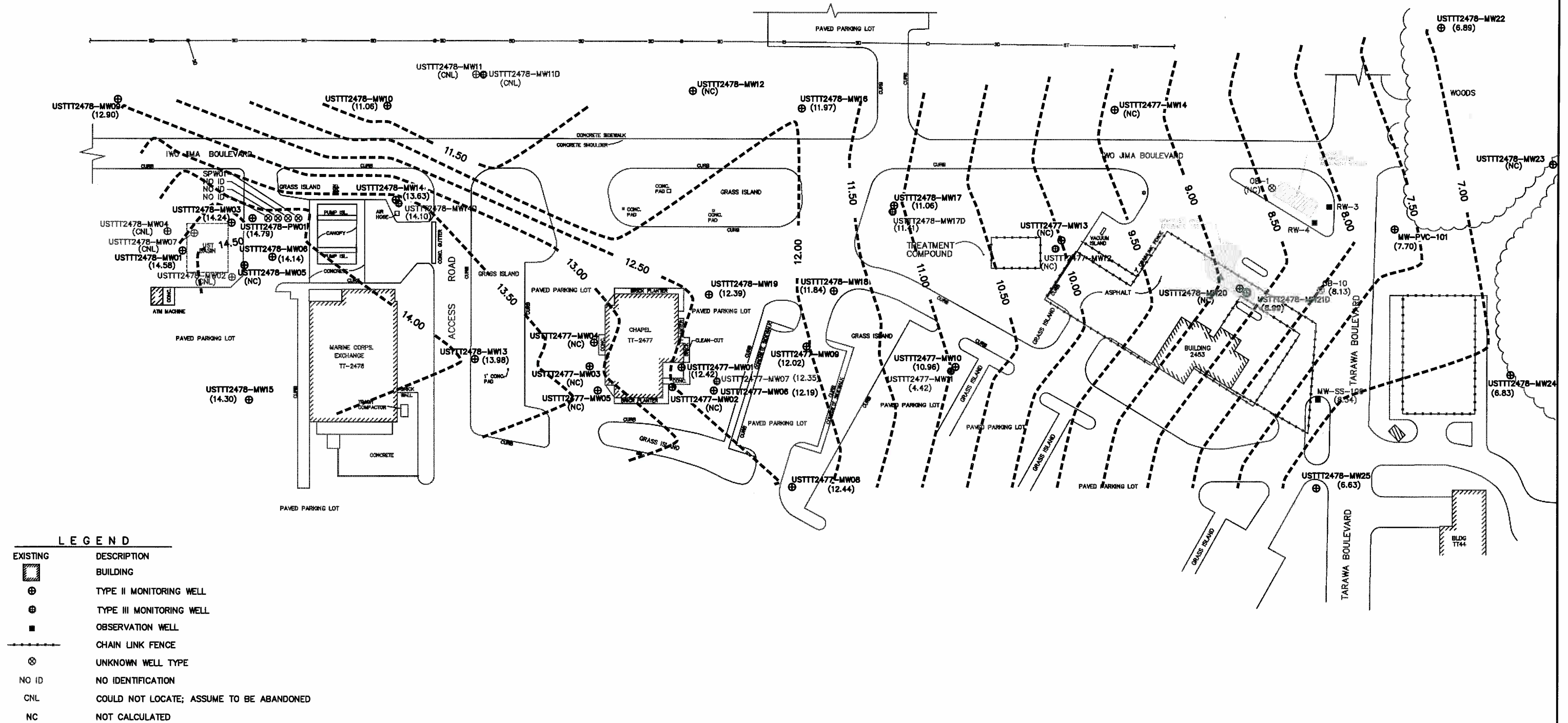
80 40 0 80
SCALE IN FEET



SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT DRAFT
ANNUAL GROUNDWATER
MONITORING REPORT
BUILDING TT-2477-78
CAMP LEJEUNE, N.C.
JOB NO. 206-063 DATE: JUNE 2006

TITLE
SHALLOW WELL
GROUNDWATER ELEVATIONS -
JANUARY 2006
SCALE: 1"=80' DRAWN BY: LCJ CHECKED BY: CWR
FIGURE
5
206063-TT2477-78-05

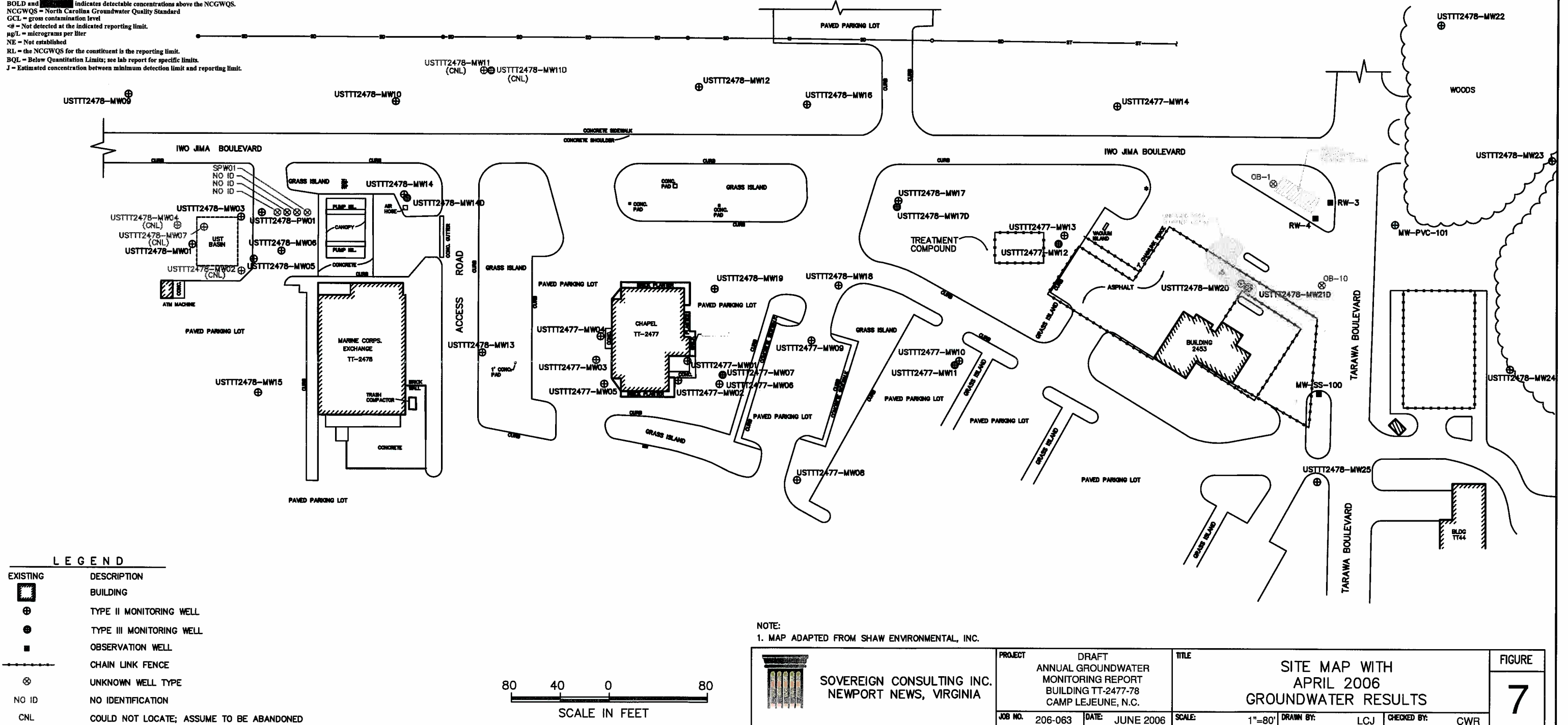


 SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT DRAFT ANNUAL GROUNDWATER MONITORING REPORT BUILDING TT-2477-78 CAMP LEJEUNE, N.C.	TITLE SHALLOW WELL GROUNDWATER ELEVATIONS - APRIL 2006		FIGURE 6
	JOB NO. 206-063 DATE JUNE 2006	SCALE 1"=80'	DRAWN BY: LCJ CHECKED BY: CWR	

Table 5
Analytical Data for April 2006 Sampling Event
Building TT2477 and TT2478

Parameter	NCIVQ8	QCL	2477-MWOB01	2477-MWOB10	2477-MWTVCL01	2477-MWQ1	2477-MWQ2	2477-MWQ6	2477-MW11	2477-MW14	2478-MW17	2478-MW17D	2478-MW18	2478-MW19	2478-MW20	2478-MW21D	2478-MW23	2478-MW24	2478-MWSS100
SVOCs by EPA Method 821 (µg/L)																			
Benzene	100	5,000	BOL		13.6	1450	0.665J	BOL	BOL	BOL	BOL	BOL	1.05	BOL	BOL	BOL	BOL	BOL	BOL
Diisopropyl ether (DPE)	70	70,000	BOL		BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2.06J	BOL	BOL	BOL	BOL
Ethylbenzene	550	84,500	236		39.4	1850	0.856J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	80.6	BOL	BOL	BOL	BOL
Methyl tert-butyl Ether	200	200,000	BOL		BOL	BOL	BOL	6.3	BOL	BOL	BOL	BOL	BOL	BOL	3.84J	BOL	BOL	BOL	BOL
Toluene	1,000	257,500	591		18.9	476	2.39J	BOL	4.85	BOL	BOL	BOL	1.17	BOL	90.4	BOL	BOL	BOL	BOL
Xylenes (total)	530	87,500	851		94.5	1790	1.494J	0.778J	BOL	BOL	BOL	BOL	BOL	BOL	310	BOL	BOL	BOL	BOL
SVOCs by EPA Method 821 (µg/L)																			
Acenaphthene	80	2,120	BOL		BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Bis(2-ethylhexyl)phthalate	3	3,000	7.10J		BOL	BOL	10.6	5.40J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Diethylphthalate	5,000	NE	BOL		BOL	BOL	BOL	4.90J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Fluorene	280	950	BOL		BOL	BOL	2.10J	1.80J	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
Naphthalene	21	15,500	68.4		7.30J	311	3.00J	1.10J	BOL	BOL	BOL	BOL	BOL	BOL	10.9	BOL	BOL	BOL	BOL
Phenol	300	NE	BOL		BOL	BOL	11.1	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
TICs (Total)			1,645.90		165.38	9478	763.8	1,187.70	BOL	35.34	BOL	BOL	BOL	75.3	895.6	BOL	BOL	BOL	BOL
VFH (µg/L)																			
C9 - C8 Aliphatics	430	NE	1,100		220	4,200	<100	<100	<100	<100	<100	<100	120	210	650	<100	<100	<100	<100
C9 - C12 Aliphatics			940		180	6,000	<100	100	<100	<100	<100	<100	<100	<100	640	<100	<100	<100	<100
C9 - C10 Aromatics			260		<100	2,100	<100	<100	<100	<100	<100	<100	<100	<100	340	<100	<100	<100	<100
VFH (µg/L)																			
C11 - C22 Aromatics			<100		<100	450	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C9 - C18 Aliphatics			<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C19 - C36 Aliphatics	42,000	NE	<100		<100	<100	30	190	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
VFH + EFH (µg/L)																			
C9 - C12 + C9 - C18 Aliphatics	4,200	NE	<1,040		<280	<6,100	<200	100	<300	<300	<300	<300	<300	<300	<740	<300	<300	<300	<300
C9 - C10 + C11 - C22 Aromatics	210	NE	<360		<300	<2,550	<200	<200	<300	<300	<300	<300	<300	<300	<440	<300	<300	<300	<300

BOLD type indicates detectable concentrations.
BOLD and **■** indicates detectable concentrations above the NCGWQS.
 NCGWQS = North Carolina Groundwater Quality Standard
 GCL = gross contamination level
 <# = Not detected at the indicated reporting limit.
 µg/L = micrograms per liter
 NE = Not established
 RL = the NCGWQS for the constituent is the reporting limit.
 BQL = Below Quantitation Limit; see lab report for specific limits.
 J = Estimated concentration between minimum detection limit and reporting limit.



APPENDIX A

HISTORICAL SOIL AND GROUNDWATER DATA AND FIGURES

**2004 ANNUAL MONITORING REPORT
TT-2477/78
MARINE CORPS BASE CAMP LEJEUNE
ONSLOW COUNTY, NORTH CAROLINA
INCIDENT NUMBER 7176**

Prepared for:

DEPARTMENT OF THE NAVY
Naval Facilities Engineering Command, Atlantic



6506 Hampton Boulevard
Norfolk, Virginia 23508-1278

Prepared by:



11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424

Shaw Project No. 110385

July 2005

TABLE 2.1
MCB CAMP LEJEUNE
Building 2477/78 Site Rehabilitation Goals

MEDIUM	COMPONENTS	2001 CONDITIONS	2002 CONDITIONS	2003 CONDITIONS	2004 CONDITIONS	TARGET CLEANUP
Free Product	Gasoline/Diesel	No free product observed in any well	No free product observed in any well	No free product observed in any well	No free product observed in any well	≤1/8"
Vadose Zone Soil	TPH 3550/5030	TPH soil contamination was measured in November 1992 at levels that ranged from <1 mg/kg to 23,000 mg/kg.	TPH soil contamination was measured in November 1992 at levels that ranged from <1 mg/kg to 23,000 mg/kg.	TPH soil contamination was measured in November 1992 at levels that ranged from <1 mg/kg to 23,000 mg/kg.	TPH soil contamination was measured in November 1992 at levels that ranged from <1 mg/kg to 23,000 mg/kg	≤40 mg/kg, DRO ≤10 mg/kg, GRO
Groundwater	Benzene	1,500 ug/l	1,550 ug/l	576 ug/l	2,360 ug/l	1 ug/l
	Ethylbenzene	500 ug/l	769 ug/l	123 ug/l	1,700 ug/l	29 ug/l
	Naphthalene	76 ug/l	131 ug/l	32.2 ug/l	330 ug/l	21 ug/l
	Acenaphthene	5.9 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	80 ug/l
	Acenaphthylene	13 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	210
	Benzo(a)anthracene	0.72 ug/l	<5 ug/l	5.2 ug/l	<5 ug/l	0.05 ug/l
	Pyrene	<0.25 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	210 ug/l
	Fluorene	<2 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	280 ug/l
	Anthracene	<1 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	2,100 ug/l
	Fluoranthene	1.5 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	280 ug/l
	Phenanthrene	<1 ug/l	<5 ug/l	<5 ug/l	<5 ug/l	210 ug/l
	Toluene	3,400 ug/l	2,030 ug/l	654 ug/l	2,710 ug/l	1000 ug/l
	Xylenes (Total)	5,200 ug/l	3,730 ug/l	627 ug/l	4,200 ug/l	530 ug/l
	MTBE	310 ug/l	55.2 ug/l	27.4 ug/l	20.2 ug/l	200 ug/l

Table 4.2
Groundwater Analytical Results
 Site 2477/78 Year 7
 April 2004 Organics

Client Sample ID:		UST2477-OB01	UST2477-OB10	UST2477-MW14	UST2477-MWSS100	UST2477-MWPC101	UST2477-MW20
Well ID:		OB01	OB10	MW14	MW-SS100	MW-PC101	2477-MW20
Laboratory Sample ID:		F23820-1	F23830-2	F23897-3	F23893-3	F23820-3	F23897-1
Date Sampled:		04/22/04	04/22/04	04/26/04	04/22/04	04/22/04	04/26/04
Analyte (ug/l)		Result	Result	Result	Result	Result	Result
EPA 602	2L GWQS	GCL					
Benzene	1	5000	2.2	<1.0	<1.0	981	<1.0
Methyl tert-butyl ether	200	200000	7.2	<1.0	<1.0	<1.0	12.4
Ethylbenzene	29	29000	2.3	<1.0	<1.0	411	74
Xylenes (total)	530	87500	7.5	<3.0	<3.0	816	241
Toluene	1000	257500	1.6	<1.0	<1.0	35.7	236
Total BTEX		1092.7	13.6			2033.7	551
EPA 610							
Naphthalene	21	15500	<5.2	<5.6	<5.6	109	18
Acenaphthene	80	2120	<5.2	<5.6	<5.6	<5.3	<6.0
Acenaphthylene	210	1985	<5.2	<5.6	<5.6	<5.3	<6.0
Benzo(a)anthracene	0.65	22	<5.2	<5.6	<5.6	<5.3	<6.0
Pyrene	210	210	<5.2	<5.6	<5.6	<5.3	<6.0
Fluorene	280	960	<5.2	<5.6	<5.6	<5.3	<6.0
Anthracene	2100	2100	<5.2	<5.6	<5.6	<5.3	<6.0
Fluoranthene	280	280	<5.2	<5.6	<5.6	<5.3	<6.0
Phenanthrene	210	410	<5.2	<5.6	<5.6	<5.3	<6.0
Bold type indicates detectable concentrations. Shaded area indicates detectable concentrations above 2L GWQS							

Table 4.2
Groundwater Analytical Results
 Site 2471/78 Year 7
 April 2004 Organics

Client Sample ID:			UST2477-MW22	UST2477-MW23	UST2477-MW24	UST2477-MW19	UST2477-MW21D
Well ID:			2478-MW22	2478-MW23	2478-MW24	2478-MW19	2478-MW21D
Laboratory Sample ID:			F23721-3	F23659-1	F23659-2	F23721-1	F23659-2
Date Sampled:			04/27/04	04/23/04	04/23/04	04/27/04	04/28/04
Analyte (ug/l)	2L GWQS	GCL	Result	Result	Result	Result	Result
EPA 602							
Benzene	1	5000	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	200000	<1.0	0.81 J	<1.0	<1.0	<1.0
Ethylbenzene	20	29000	<1.0	1.6	<1.0	<5.0	<1.0
Xylenes (total)	530	87500	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	257500	<1.0	0.63 J	<1.0	<1.0	<1.0
Total BTEX				2.23			
EPA 610							
Naphthalene	21	15500	<5.0	<5.6	<5.2	5.9	<5.2
Acenaphthene	80	2120	<5.0	<5.6	<5.2	<5.2	<5.2
Acenaphthylene	210	1965	<5.0	<5.6	<5.2	<5.2	<5.2
Benzo(a)anthracene	0.05	22	<5.0	<5.6	<5.2	<5.2	<5.2
Pyrene	210	210	<5.0	<5.6	<5.2	<5.2	<5.2
Fluorene	280	950	<5.0	<5.6	<5.2	<5.2	<5.2
Anthracene	2100	2100	<5.0	<5.6	<5.2	<5.2	<5.2
Fluoranthene	280	280	<5.0	<5.6	<5.2	<5.2	<5.2
Phenanthrene	210	410	<5.0	<5.6	<5.2	<5.2	<5.2
			Bold type indicates detectable concentrations.				
			Shaded area indicates detectable concentrations above 2L GWQS				

Table 4.3
Groundwater Analytical Results
 Site 247178 Year 7
 October 2004 Organics

Client Sample ID:	Well ID:	Date Sampled:	Lab Project Number	Analyte (ug/l)	2L GWQS	GCL	2478-MW01	2478-MW03	2478-MW06	2478-MW09	2478-MW10	2478-MW13	2478-MW14	2478-MW14D	UST2478-MW15
							Result	Result	Result	Result	Result	Result	Result	Result	Result
EPA 601/602															
Benzene	1	5000		4.5	<1.0		<1.0	<1.0	0.52 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	200000		<1.0	0.71 J		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.80 J	<1.0	<1.0
Ethylbenzene	28	29000		3.8	<1.0		<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	87500		5.2	<3.0		<3.0	<3.0	5.4	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	257500		0.88 J	<1.0		<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX				15.08	0		0	0	10.43	0	0	0	0	0	0
EPA 625															
Naphthalene	21	15500		14.1	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthene	80	2120		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	1965		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	22		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	210		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	950		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	2100		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	280		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	410		<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
MADEP VPH															
C5-C8 Aliphatics (Unadj.)	420	NS		18	<75		<75	<75	<75	<75	<75	<75	<75	<75	<75
C9-C12 Aliphatics (Unadj.)	NS	NS		40.4 J	<55		<55	<55	<55	<55	<55	<55	<55	<55	<55
C9-C10 Aromatics (Unadj.)	NS	NS		43.7	<20		<20	<20	<20	<20	<20	<20	<20	<20	<20
MADEP EPH															
C11-C22 Aromatics (Unadj.)	210	NS		241	<190		<190	<190	<190	<190	<190	<190	<190	<190	<190
C9-C18 Aliphatics	4200	NS		808	<190		<190	<190	<190	<190	<190	<190	<190	<190	<190
C15-C36 Aliphatics	42000	NS		395	<190		<190	<190	<190	<190	<190	<190	<190	<190	<190
Bold type indicates detectable concentrations. Shaded area indicates detectable concentrations above 2L GWQS															

Table 4.3
Groundwater Analytical Results
 Site 2477/78 Year 7
 October 2004 Organics

Client Sample ID:			UST12478-MW16	UST12478-MW17	UST12478-MW17D	UST12478-MW18	UST12478-MW19	UST12478-MW20	UST12478-MW21D	UST12478-MW22	UST12478-MW23
Well ID:			UST12478-MW16	UST12478-MW17	UST12478-MW17D	UST12478-MW18	UST12478-MW19	UST12478-MW20	UST12478-MW21D	UST12478-MW22	UST12478-MW23
Date Sampled:			10/28/04	10/28/04	10/28/04	10/28/04	10/28/04	10/28/04	10/28/04	10/28/04	10/28/04
Lab Project Number			F27395-4	F27395-4	F27395-2	F27492-1	F27659-3	F27395-5	F27843-5	F27843-5	F27843-4
Analyte (unit)			Result	Result	Result	Result	Result	Result	Result	Result	Result
EPA 601/602		2L GWQS									
Benzene	1	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	200000	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	0.97 J
Ethylbenzene	29	29000	<1.0	<1.0	<1.0	<1.0	4.2	12.1	<1.0	<1.0	5.4
Xylenes (total)	530	87500	<3.0	<3.0	<3.0	<3.0	<3.0	41.1	<3.0	<3.0	4.7
Toluene	1000	257500	<1.0	<1.0	<1.0	<1.0	<1.0	29	<1.0	<1.0	1.5
Total BTEX			0	0	0	0	4.2	82.2	0	0	11.7
EPA 825											
Naphthalene	21	15500	<4.8	<4.8	<4.8	<4.8	<5.0	9.9	<4.8	<4.8	<4.8
Acenaphthene	80	2120	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	1995	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo[a]anthracene	0.05	22	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	210	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	990	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	2100	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	280	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	410	<4.8	<4.8	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
MADEP VPH											
C5-C8 Aliphatics (Unadj.)	420	NS	<75	<75	<75	<75	251	97.9	<75	<75	<75
C9-C12 Aliphatics (Unadj.)	NS	NS	<55	<55	<55	<55	397	285	<55	<55	<55
C9-C10 Aromatics (Unadj.)	NS	NS	<20	<20	<20	<20	285	265	<20	<20	<20
MADEP EPH											
C11-C22 Aromatics (Unadj.)	210	NS	<190	<190	<190	<190	176	<190	<190	<190	<190
C9-C19 Aliphatics	4200	NS	<190	<190	<190	<190	<190	<190	<190	<190	<190
C19-C36 Aliphatics	42000	NS	<190	<190	<190	<190	<190	<190	<190	<190	<190
Solid type indicates detectable concentrations.											
Shaded area indicates detectable concentrations above 2L GWQS											

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APPENDIX E

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: 2478-PW1

Date Sampled:	Analyte (ug/l)	2L GWQS	143GW175	143GW188	143GW215	143GW229	CL-143-GW-253	IUST2478-MMPW01
			Result	Result	Result	Result	Result	Result
EPA 602								
1,2-Dichlorobenzene	620		<1	<1	<1	<2	<1	NA
1,3-Dichlorobenzene	620		<1	<1	<1	<2	<1	NA
1,4-Dichlorobenzene	75		<1	<1	<1	<2	<1	NA
EPA 602								
Benzene	1		7.2	<1	<1	<1	<1	<1.0
Chlorobenzene	NS		<1	<1	<1	<2	<1	NA
Methyl tert-butyl ether	200		<1	<1	<1	<2	<5	<1.0
Ethylbenzene	29		<1	<1	<1	<2	<1	<1.0
Xylenes (total)	530		<1	<3	<3	<6	<1	<3.0
Toluene	1000		8	<1	<1	<2	<1	<1.0
Total BTEX			15.2					0
EPA 610								
Naphthalene	21		NA	NA	NA	NA	NA	<4.8
Acenaphthene	80		NA	NA	NA	NA	NA	<4.8
Acenaphthylene	210		NA	NA	NA	NA	NA	<4.8
Benzo(a)anthracene	0.05		NA	NA	NA	NA	NA	<4.8
Pyrene	210		NA	NA	NA	NA	NA	<4.8
Fluorene	280		NA	NA	NA	NA	NA	<4.8
Anthracene	2100		NA	NA	NA	NA	NA	<4.8
Fluoranthene	280		NA	NA	NA	NA	NA	<4.8
Phenanthrene	210		NA	NA	NA	NA	NA	<4.8
MADEP VPH								
C5-C8 Aliphatics (Unadj.)	420		NA	NA	NA	NA	NA	<75
C9-C12 Aliphatics (Unadj.)	NS		NA	NA	NA	NA	NA	<55
C9-C10 Aromatics (Unadj.)	NS		NA	NA	NA	NA	NA	<20
MADEP EPH								
C11-C22 Aromatics (Unadj.)	210		NA	NA	NA	NA	NA	<190
C9-C18 Aliphatics	4200		NA	NA	NA	NA	NA	<190
C19-C36 Aliphatics	42000		NA	NA	NA	NA	NA	<190
			Bold type indicates detectable concentrations.					
			Shaded area indicates detectable concentrations above 2L GWQS					

J= estimated

P= >25% difference between column quantitation

B= detected in blank

NA= not analyzed

Analytical Data Summary
Shallow Well: **2478-MW9**

Client Sample ID:	143GW192	2478-MW09
Date Sampled:	11/10/99	10/29/04
Analyte (ug/l)	GCL	Result
EPA 602	2L GWAS	
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	39500
EPA 602		
Benzene	1	5000
Chlorobenzene	NS	NS
Methyl tert-butyl ether	200	200000
Ethylbenzene	28	29000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		
EPA 610		
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NS
C9-C12 Aliphatics (Unadj.)	NS	NS
C9-C10 Aromatics (Unadj.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated

P= >25% difference between column quantitation

B= detected in blank

NA= not analyzed

Analytical Data Summary
Shallow Well: 2478-MW10

Client Sample ID:	143GW191	2478-MW10
Date Sampled:	11/10/99	10/29/04
Analyte (ug/l)	GCL	Result
EPA 602	2L GWQS	
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	39500
EPA 602		
Benzene	1	5000
Chlorobenzene	NS	NS
Methyl tert-butyl ether	200	200000
Ethylbenzene	29	29000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		
EPA 610		
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NS
C9-C12 Aliphatics (Unadj.)	NS	NS
C9-C10 Aromatics (Unadj.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated

P= >25% difference between column quantitation

B= detected in blank

NA= not analyzed

Analytical Data Summary Shallow Well: 2478-MW12

Client Sample ID:			143GW203
Date Sampled:			11/14/99
Analyte (ug/l)	2L GWQS	GCL	Result
EPA 602			
1,2-Dichlorobenzene	620	72500	<1
1,3-Dichlorobenzene	620	61500	<1
1,4-Dichlorobenzene	75	39500	<1
EPA 602			
Benzene	1	5000	<1
Chlorobenzene	NS	NS	<1
Methyl tert-butyl ether	200	200000	<1
Ethylbenzene	29	25000	<1
Xylenes (total)	530	87500	<3
Toluene	1000	257500	<1
Total BTEX			
EPA 610			
Naopthalene	21	15500	NA
Acenaphthene	80	2120	NA
Acenaphthylene	210	1965	NA
Benzo(a)anthracene	0.05	22	NA
Pyrene	210	210	NA
Fluorene	280	950	NA
Anthracene	2100	2100	NA
Fluoranthene	280	280	NA
Phenanthrene	210	410	NA
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above 2L GWQS			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Bold type indicates detectable concentrations.

Printed: 3/16/2005
Samples analyzed by Compuchem, STL, or Accutest

Analytical Data Summary
Shallow Well: **2478-MW15**

Client Sample ID:	143GW214	USTT2478-MW15
Date Sampled:	11/14/99	10/25/04
Analyte (ug/l)	GCL	Result
EPA 602		
1,2-Dichlorobenzene	620	<1
1,3-Dichlorobenzene	620	<1
1,4-Dichlorobenzene	75	<1
EPA 602		
Benzene	1	10.4
Chlorobenzene	NS	<1
Methyl tert-butyl ether	200	<1
Ethylbenzene	29	18.4
Xylenes (total)	530	90.2
Toluene	1000	49.5
Total BTEX		188.5
EPA 610		
Naphthalene	21	NA
Acenaphthene	80	NA
Acenaphthylene	210	NA
Benzo(a)anthracene	0.05	NA
Pyrene	210	NA
Fluorene	280	NA
Anthracene	2100	NA
Fluoranthene	280	NA
Phenanthrene	210	NA
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NA
C9-C12 Aliphatics (Unadj.)	NS	NA
C9-C10 Aromatics (Unadj.)	NS	NA
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NA
C9-C18 Aliphatics	4200	NA
C19-C36 Aliphatics	42000	NA
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary

Shallow Well: 2478-MW18

Client Sample ID:	143GW182	143GW199	143GW223	143GW235	CL-143-GW-261	USTT2478-MW18
Date Sampled:	09/11/99	11/13/99	05/10/00	08/28/00	12/18/00	10/14/04
Analyte (ug/l)	2L GWQS	Result	Result	Result	Result	Result
EPA 602						
1,2-Dichlorobenzene	620	<1	<1	<2	<1	NA
1,3-Dichlorobenzene	620	<1	<1	<2	<1	NA
1,4-Dichlorobenzene	75	<1	<1	<2	<1	NA
EPA 602						
Benzene	1	28.2	<1	<1	<1	<1.0
Chlorobenzene	NS	<1	<1	<2	<1	NA
Methyl tert-butyl ether	200	<1	<1	<2	<5	<1.0
Ethylbenzene	29	<1	<1	<2	2.5	<1.0
Xylenes (total)	530	200	<3	<8	<1	<3.0
Toluene	1000	258	<1	0.74 J	<1	<1.0
Total BTEX		486.2		0.74	2.5	0
EPA 610						
Naphthalene	21	NA	NA	NA	NA	<4.8
Acenaphthene	80	NA	NA	NA	NA	<4.8
Acenaphthylene	210	NA	NA	NA	NA	<4.8
Benzo(a)anthracene	0.05	NA	NA	NA	NA	<4.8
Pyrene	210	NA	NA	NA	NA	<4.8
Fluorene	280	NA	NA	NA	NA	<4.8
Anthracene	2100	NA	NA	NA	NA	<4.8
Fluoranthene	280	NA	NA	NA	NA	<4.8
Phenanthrene	210	NA	NA	NA	NA	<4.8
MADEP VPH						
C5-C8 Aliphatics (Unadj.)	420	NA	NA	NA	NA	<75
C9-C12 Aliphatics (Unadj.)	NS	NA	NA	NA	NA	<55
C9-C10 Aromatics (Unadj.)	NS	NA	NA	NA	NA	<20
MADEP EPH						
C11-C22 Aromatics (Unadj.)	210	NA	NA	NA	NA	<190
C8-C18 Aliphatics	4200	NA	NA	NA	NA	<190
C19-C36 Aliphatics	42000	NA	NA	NA	NA	<190
		Bold type indicates detectable concentrations.				
		Shaded area indicates detectable concentrations above 2L GWQS				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Deep Well: ~~2478-MW21D~~

[illegible]

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: 2478-MW25

Client Sample ID:	143GW248	UST2478-MW25
Date Sampled:	09/19/00	10/26/04
Analyte (ug/l)	GCL	Result
EPA 602	2L GWQS	Result
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	38500
EPA 602		
Benzene	1	5000
Chlorobenzene	50	NS
Methyl tert-butyl ether	200	200000
Ethylbenzene	29	28000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		0
EPA 610		
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NS
C9-C12 Aliphatics (Unadj.)	NS	NS
C9-C10 Aromatics (Unadj.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS.		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Bold type indicates detectable concentrations.

Printed: 3/16/2005
Samples analyzed by Computchem, STL, or Accutest

Analytical Data Summary

Client Sample ID:	143GW210	143GW251	143GW252	CL-143-GW-271	MWPVC101-01C3	UST2477-MWPVC101-02A
Date Sampled:	11/14/99	09/19/00	10/04/00	05/08/01	09/19/01	04/12/02
Analyte (ug/l)	Result	Result	Result	Result	Result	Result
EPA 602	GCL	2L GWQS				
1,2-Dichlorobenzene	620	72500	<40	NA	NA	NA
1,3-Dichlorobenzene	620	61500	<40	NA	NA	NA
1,4-Dichlorobenzene	75	39500	<40	NA	NA	NA
EPA 602						
Benzene	1	5000	498	3400	4500	5.0
Chlorobenzene	NS	NS	<40	NA	NA	NA
Methyl tert-butyl ether	200	200000	220	1200	<50	21.8
Ethylbenzene	29	29000	268	1200	500	2.2
Xylenes (total)	530	87500	95.9 J	2300	580	<3.0
Toluene	1000	257500	31.8 J	130 B	<50	0.63 J
Total BTEX			891.7	7030	2580	7.83
EPA 610						
Naphtalene	21	15500	NA	190	76	<5.0
Acenaphthene	80	2120	NA	<4	4.3 P	<5.0
Acenaphthylene	210	1965	NA	<4	13	<5.0
Benz(a)anthracene	0.05	22	NA	<0.4	<0.1	<5.0
Pyrene	210	210	NA	<0.4	<0.25	<5.0
Fluorene	280	950	NA	<8	<2	<5.0
Anthracene	2100	2100	NA	<4	<1	<5.0
Fluoranthene	280	280	NA	<8	<0.25	<5.0
Phenanthrene	210	410	NA	<4	<1	<5.0
MADEP VPH						
C5-C8 Aliphatics (Unad.)	420	NS	NA	NA	NA	NA
C9-C12 Aliphatics (Unad.)	NS	NS	NA	NA	NA	NA
C9-C10 Aromatics (Unad.)	NS	NS	NA	NA	NA	NA
MADEP EPH						
C11-C22 Aromatics (Unad.)	210	NS	NA	NA	NA	NA
C9-C18 Aliphatics	4200	NS	NA	NA	NA	NA
C19-C36 Aliphatics	42000	NS	NA	NA	NA	NA

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Bold type indicates detectable concentrations.

Printed: 3/16/2005
Samples analyzed by Compuchem, STL, or Accutest

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary

Shallow Well: **MW5**

Client Sample ID:			143GW011	143GW040	143GW070	143GW136	143GW150	143GW163
Date Sampled:			08/13/97	01/21/98	05/01/98	11/17/98	02/28/99	05/20/99
Analyte (ug/l)	2L GWQS	GCL	Result	Result	Result	Result	Result	Result
EPA 602								
1,2-Dichlorobenzene	620	72500	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	620	61500	<0.8	<0.8	<0.8	<1	<1	<1
1,4-Dichlorobenzene	75	39500	<1.5	<1.5	<1.5	0.39 J	<1	<1
EPA 602								
Benzene	1	5000	<0.5	1.1 P	<0.5	<1	2.7	2.4
Chlorobenzene	NS	NS	<0.5	<0.5	0.062 J	<1	<1	<1
Methyl tert-butyl ether	200	200000	<2	<5	<2	13	<1	<1
Ethylbenzene	29	29000	<0.8	9.6 P	0.26 J	0.26 J	1.3	1.5
Xylenes (total)	530	87500	<3	<3	1.01 J	1.24 J	4.6	6.5
Toluene	1000	257500	<2	<2	1.5 JB	1.4	5.1	6.6
Total BTEX				10.7	2.77	2.9	13.7	17
EPA 610								
Naphthalene	21	15500	NA	NA	NA	NA	NA	NA
Acenaphthene	80	2120	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	1965	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	22	NA	NA	NA	NA	NA	NA
Pyrene	210	210	NA	NA	NA	NA	NA	NA
Fluorene	280	950	NA	NA	NA	NA	NA	NA
Anthracene	2100	2100	NA	NA	NA	NA	NA	NA
Fluoranthene	280	280	NA	NA	NA	NA	NA	NA
Phenanthrene	210	410	NA	NA	NA	NA	NA	NA
			Bold type indicates detectable concentrations.					
			Shaded area indicates detectable concentrations above 2L GWQS					

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary Shallow Well: MW5

Client Sample ID:	143GW177	143GW194	143GW218	143GW233	CL-143-GW-256	2477-MW05
Date Sampled:	09/11/99	11/11/99	05/10/00	08/26/00	12/18/00	10/27/04
Analyte (ug/l)	2L GWQS	Result	Result	Result	Result	Result
EPA 602						
1,2-Dichlorobenzene	620	<1	<1	<2	<1	NA
1,3-Dichlorobenzene	620	<1	<1	<2	<1	NA
1,4-Dichlorobenzene	75	<1	<1	<2	<1	NA
EPA 602						
Benzene	1	5.6	<1	<1	<1	2.9
Chlorobenzene	NS	<1	<1	<2	<1	NA
Methyl tert-butyl ether	200	<1	<1	<2	<5	<1.0
Ethylbenzene	29	<1	<1	<2	<1	11.3
Xylenes (total)	530	2.5	<3	<6	<1	21.8
Toluene	1000	5.2	<1	<2	<1	8.4
Total BTEX		13.3				44.4
EPA 610						
Naphthalene	21	NA	NA	NA	NA	<4.8
Acenaphthene	80	NA	NA	NA	NA	<4.8
Acenaphthylene	210	NA	NA	NA	NA	<4.8
Benzo(a)anthracene	0.05	NA	NA	NA	NA	<4.8
Pyrene	210	NA	NA	NA	NA	<4.8
Fluorene	280	NA	NA	NA	NA	1.4 J
Anthracene	2100	NA	NA	NA	NA	<4.8
Fluoranthene	280	NA	NA	NA	NA	1.5 J
Phenanthrene	210	NA	NA	NA	NA	<4.8
		Bold type indicates detectable concentrations.				
		Shaded area indicates detectable concentrations above 2L GWQS				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **MW6**

Client Sample ID:	143GW196	2477-MW06
Date Sampled:	11/11/99	10/14/04
Analyte (ug/l)	GCL	Result
EPA 602	2L GWQS	
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	39500
EPA 602		
Benzene	1	5000
Chlorobenzene	NS	<1
Methyl tert-butyl ether	200	200000
Ethylbenzene	29	29000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		
EPA 810		0
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NS
C9-C12 Aliphatics (Unadj.)	NS	NS
C9-C10 Aromatics (Unadj.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Deep Well: **MWZ**

Client Sample ID:	143GW197	2477-MW07
Date Sampled:	11/11/89	10/20/04
Analyte (ug/l)	GCL	Result
EPA 602	2L GWQS	
1,2-Dichlorobenzene	620	<1
1,3-Dichlorobenzene	620	<1
1,4-Dichlorobenzene	75	<1
EPA 602		
Benzene	1	<1
Chlorobenzene	NS	<1
Methyl tert-butyl ether	200	<1
Ethylbenzene	29	<1
Xylenes (total)	530	<3
Toluene	1000	<1
Total BTEX		0
EPA 810		
Naphthalene	21	NA
Acenaphthene	80	NA
Acenaphthylene	210	NA
Benzo(a)anthracene	0.05	NA
Pyrene	210	NA
Fluorene	280	NA
Anthracene	2100	NA
Fluoranthene	280	NA
Phenanthrene	210	NA
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NA
C9-C12 Aliphatics (Unadj.)	NS	NA
C9-C10 Aromatics (Unadj.)	NS	NA
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NA
C9-C18 Aliphatics	4200	NA
C18-C36 Aliphatics	42000	NA
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **MW10**

Client Sample ID:	143GW201	2477-MW10
Date Sampled:	11/13/99	10/20/04
Analyte (ug/l)	2L GWQS	GCL
EPA 602		
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	39500
EPA 602		
Benzene	1	5000
Chlorobenzene	NS	NS
Methyl tert-butyl ether	200	200000
Ethylbenzene	29	29000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		0
EPA 610		
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadj.)	420	NS
C9-C12 Aliphatics (Unadj.)	NS	NS
C9-C10 Aromatics (Unadj.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadj.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Deep Well: **MW11**

Client Sample ID:	143GW200	2477-MW11
Date Sampled:	11/13/99	10/20/04
Analyte (ug/l)	Result	Result
EPA 602	2L GWQS	GCL
1,2-Dichlorobenzene	620	72500
1,3-Dichlorobenzene	620	61500
1,4-Dichlorobenzene	75	39500
EPA 602		
Benzene	1	5000
Chlorobenzene	NS	NS
Methyl tert-butyl ether	200	200000
Ethylbenzene	29	29000
Xylenes (total)	530	87500
Toluene	1000	257500
Total BTEX		0
EPA 610		
Naphthalene	21	15500
Acenaphthene	80	2120
Acenaphthylene	210	1965
Benzo(a)anthracene	0.05	22
Pyrene	210	210
Fluorene	280	950
Anthracene	2100	2100
Fluoranthene	280	280
Phenanthrene	210	410
MADEP VPH		
C5-C8 Aliphatics (Unadl.)	420	NS
C9-C12 Aliphatics (Unadl.)	NS	NS
C9-C10 Aromatics (Unadl.)	NS	NS
MADEP EPH		
C11-C22 Aromatics (Unadl.)	210	NS
C9-C18 Aliphatics	4200	NS
C19-C36 Aliphatics	42000	NS
Bold type indicates detectable concentrations.		
Shaded area indicates detectable concentrations above 2L GWQS		

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary Deep Well: **MW12**

Client Sample ID:				143GW205
Date Sampled:				11/14/99
Analyte (ug/l)	2L GWQS	GCL	Result	
EPA 602				
1,2-Dichlorobenzene	620	72500	<1	
1,3-Dichlorobenzene	620	61500	<1	
1,4-Dichlorobenzene	75	39500	<1	
EPA 602				
Benzene	1	5000	<1	
Chlorobenzene	NS	NS	<1	
Methyl tert-butyl ether	200	200000	19.6	
Ethylbenzene	29	29000	<1	
Xylenes (total)	530	87500	<3	
Toluene	1000	257500	<1	
Total BTEX				
EPA 610				
Naphthalene	21	15500	NA	
Acenaphthene	80	2120	NA	
Acenaphthylene	210	1965	NA	
Benzo(a)anthracene	0.05	22	NA	
Pyrene	210	210	NA	
Fluorene	280	950	NA	
Anthracene	2100	2100	NA	
Fluoranthene	280	280	NA	
Phenanthrene	210	410	NA	
Bold type indicates detectable concentrations.				
Shaded area indicates detectable concentrations above 2L GWQS				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary

Client Sample ID:				143GW015	143GW041	143GW071	143GW138	143GW157	143GW169
Date Sampled:				08/13/97	01/21/98	05/01/98	11/17/98	03/01/99	05/20/99
Analyte (ug/l)	2L QWQS	GCL		Result	Result	Result	Result	Result	Result
EPA 602									
1,2-Dichlorobenzene	620	72500		<2	<1	<25	<1	<1	<1
1,3-Dichlorobenzene	620	61500		<1.5	<0.8	<19	<1	<1	<1
1,4-Dichlorobenzene	75	39500		<3	<1.5	<38	0.3 J	<1	<1
EPA 602									
Benzene	1	5000		14 P	<0.5	<12	<1	1	8.5
Chlorobenzene	NS	NS		<1	<0.5	<12	<1	<1	<1
Methyl tert-butyl ether	200	200000		18 P	<5	<50	45	<1	<1
Ethylbenzene	29	29000		14 P	0.15 JP	20	<1	2.5	58.5
Xylenes (total)	530	87500		<6	0.41 JB	90 JB	0.28 J	18.7	64.2
Toluene	1000	257500		0.28 JP	0.67 JB	160 BP	0.74 J	22.1	<1
Total BTEX				15.68	1.23	270	1.02	44.3	131.2
EPA 610									
Naphthalene	21	15500		NA	NA	NA	NA	NA	NA
Acenaphthene	80	2120		NA	NA	NA	NA	NA	NA
Acenaphthylene	210	1985		NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	22		NA	NA	NA	NA	NA	NA
Pyrene	210	210		NA	NA	NA	NA	NA	NA
Fluorene	280	950		NA	NA	NA	NA	NA	NA
Anthracene	2100	2100		NA	NA	NA	NA	NA	NA
Fluoranthene	280	280		NA	NA	NA	NA	NA	NA
Phenanthrene	210	410		NA	NA	NA	NA	NA	NA
MADEP VPH									
C5-C8 Aliphatics (Unadj.)	420	NS		NA	NA	NA	NA	NA	NA
C9-C12 Aliphatics (Unadj.)	NS	NS		NA	NA	NA	NA	NA	NA
C9-C10 Aromatics (Unadj.)	NS	NS		NA	NA	NA	NA	NA	NA
MADEP EPH									
C11-C22 Aromatics (Unadj.)	210	NS		NA	NA	NA	NA	NA	NA
C9-C18 Aliphatics	4200	NS		NA	NA	NA	NA	NA	NA
C19-C36 Aliphatics	42000	NS		NA	NA	NA	NA	NA	NA
Bold type indicates detectable concentrations.									
Shaded area indicates detectable concentrations above 91 QWQS									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **MW14**

Client Sample ID:	143GW206	CL-143-GW-275	MW14-01C3	UST2477-MW14-02A	UST2478-MW14-02C	USTT2477-MW14	USTT2477-MW14
Date Sampled:	11/14/99	05/15/01	09/21/01	04/11/02	10/17/02	04/29/03	11/03/03
Analyte (ug/l)	GCL	Result	Result	Result	Result	Result	Result
EPA 602	2L GWQS	72500	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	620	<1	NA	NA	NA	NA	<1
1,3-Dichlorobenzene	620	<1	NA	NA	NA	NA	<1
1,4-Dichlorobenzene	75	<1	NA	NA	NA	NA	<1
EPA 602	75	39500	NA	NA	NA	NA	NA
Benzene	1	5000	<1	<1	<1	<1	<1
Chlorobenzene	NS	NS	NA	NA	NA	NA	<1
Methyl tert-butyl ether	200	20000	<10	2.1	<1	<1	0.82 J
Ethylbenzene	29	29000	1.6	<1	<1	<1	<1
Xylenes (total)	530	87500	<1	<1	<1	<1	<1
Toluene	1000	257500	0.41 JB	<1	<1	<1	<1
Total BTEX		1.9	2.01				
EPA 610	21	16500	<2	<5.5	<5.2	<5.1	<5.6
Naphthalene	80	2120	<1	<5.5	<5.2	<5.1	<5.6
Acenaphthene	210	1965	<1	<5.5	<5.2	<5.1	<5.6
Benzo(a)anthracene	0.05	22	<0.1	<5.5	<5.2	<5.1	<5.6
Pyrene	210	210	<0.25	<5.5	<5.2	<5.1	<5.6
Fluorene	280	950	<2	<5.5	<5.2	<5.1	<5.6
Anthracene	2100	2100	<1	<5.5	<5.2	<5.1	<5.6
Fluoranthene	280	280	<0.2	<5.5	<5.2	<5.1	<5.6
Phenanthrene	210	410	<1	<5.5	<5.2	<5.1	<5.6
Bold type indicates detectable concentrations.							
Shaded area indicates detectable concentrations above 2L GWQS							

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **2478-MW01**

Client Sample ID:				2478-MW01
Date Sampled:				10/22/04
Analyte (ug/l)	2L GWQS	GCL	Result	
EPA 602				
1,2-Dichlorobenzene	620	72500	NA	
1,3-Dichlorobenzene	620	61500	NA	
1,4-Dichlorobenzene	75	39500	NA	
EPA 602				
Benzene	1	5000	4.5	
Chlorobenzene	NS	NS	NA	
Methyl tert-butyl ether	200	200000	<1.0	
Ethylbenzene	29	29000	3.8	
Xylenes (total)	530	87500	6.2	
Toluene	1000	257500	0.58 J	
Total BTEX			15.08	
EPA 610				
Naphthalene	21	15500	1.4 J	
Acenaphthene	80	2120	<4.8	
Acenaphthylene	210	1965	<4.8	
Benzo(a)anthracene	0.05	22	<4.8	
Pyrene	210	210	<4.8	
Fluorene	280	950	<4.8	
Anthracene	2100	2100	<4.8	
Fluoranthene	280	280	<4.8	
Phenanthrene	210	410	<4.8	
MADEP VPH				
C5-C8 Aliphatics (Unadj.)	420	NS	88	
C9-C12 Aliphatics (Unadj.)	NS	NS	40.4 J	
C9-C10 Aromatics (Unadj.)	NS	NS	43.7	
MADEP EPH				
C11-C22 Aromatics (Unadj.)	210	NS	24	
C9-C18 Aliphatics	4200	NS	809	
C19-C36 Aliphatics	42000	NS	385	
Bold type indicates detectable concentrations.				
Shaded area indicates detectable concentrations above 2L GWQS				

J= estimated

P= >25% difference between column quantitation

B= detected in blank

NA= not analyzed

Analytical Data Summary
Shallow Well: **2478-MW03**

Client Sample ID:	2478-MW03		
Date Sampled:	10/22/04		
Analyte (ug/l)	2L GWQS	GCL	Result
EPA 602			
1,2-Dichlorobenzene	620	72500	NA
1,3-Dichlorobenzene	620	61500	NA
1,4-Dichlorobenzene	75	39500	NA
EPA 602			
Benzene	1	5000	<1.0
Chlorobenzene	NS	NS	NA
Methyl tert-butyl ether	200	200000	3.5
Ethylbenzene	29	29000	<1.0
Xylenes (total)	530	87500	<3.0
Toluene	1000	257500	<1.0
Total BTEX			0
EPA 610			
Naphthalene	21	15500	<4.8
Acenaphthene	80	2120	<4.8
Acenaphthylene	210	1965	<4.8
Benzo(a)anthracene	0.05	22	<4.8
Pyrene	210	210	<4.8
Fluorene	280	950	<4.8
Anthracene	2100	2100	<4.8
Fluoranthene	280	280	<4.8
Phenanthrene	210	410	<4.8
MADEP VPH			
C5-C8 Aliphatics (Unadj.)	420	NS	<75
C9-C12 Aliphatics (Unadj.)	NS	NS	<55
C9-C10 Aromatics (Unadj.)	NS	NS	<20
MADEP EPH			
C11-C22 Aromatics (Unadj.)	210	NS	204
C9-C18 Aliphatics	4200	NS	359
C19-C36 Aliphatics	42000	NS	362
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above 2L GWQS			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: 2478-MW14D

Client Sample ID:	2478-MW14D
Date Sampled:	10/12/04
Analyte (ug/l)	2L GWQS GCL Result
EPA 602	
1,2-Dichlorobenzene	620 72500 NA
1,3-Dichlorobenzene	620 61500 NA
1,4-Dichlorobenzene	75 39500 NA
EPA 602	
Benzene	1 5000 <1.0
Chlorobenzene	NS NS NA
Methyl tert-butyl ether	200 200000 0.80 J
Ethylbenzene	29 28000 <1.0
Xylenes (total)	530 87500 <3.0
Toluene	1000 257500 <1.0
Total BTEX	0
EPA 610	
Naphthalene	21 15500 <4.8
Acenaphthene	80 2120 <4.8
Acenaphthylene	210 1965 <4.8
Benzo(a)anthracene	0.05 22 <4.8
Pyrene	210 210 <4.8
Fluorene	280 950 <4.8
Anthracene	2100 2100 <4.8
Fluoranthene	280 280 <4.8
Phenanthrene	210 410 <4.8
MADEP VPH	
C5-C8 Aliphatics (Unadj.)	420 NS <75
C9-C12 Aliphatics (Unadj.)	NS NS <55
C9-C10 Aromatics (Unadj.)	NS NS <20
MADEP EPH	
C11-C22 Aromatics (Unadj.)	210 NS <190
C9-C18 Aliphatics	4200 NS <190
C19-C36 Aliphatics	42000 NS <190
Bold type indicates detectable concentrations.	
Shaded area indicates detectable concentrations above 2L GWQS	

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **2478-MW17D**

Client Sample ID:	2478-MW17D
Date Sampled:	10/12/04
Analyte (ug/l)	GCL Result
EPA 602	
1,2-Dichlorobenzene	620 72500 NA
1,3-Dichlorobenzene	620 61500 NA
1,4-Dichlorobenzene	75 39500 NA
EPA 602	
Benzene	1 5000 <1.0
Chlorobenzene	NS NS NA
Methyl tert-butyl ether	200 200000 <1.0
Ethylbenzene	29 29000 <1.0
Xylenes (total)	530 87500 <3.0
Toluene	1000 257500 <1.0
Total BTEX	0
EPA 610	
Naphthalene	21 15500 <4.8
Acenaphthene	80 2120 <4.8
Acenaphthylene	210 1985 <4.8
Benzo(a)anthracene	0.05 22 <4.8
Pyrene	210 210 <4.8
Fluorene	280 950 <4.8
Anthracene	2100 2100 <4.8
Fluoranthene	280 280 <4.8
Phenanthrene	210 410 <4.8
MADEP VPH	
C5-C8 Aliphatics (Unadj.)	420 NS <75
C9-C12 Aliphatics (Unadj.)	NS NS <55
C9-C10 Aromatics (Unadj.)	NS NS <20
MADEP EPH	
C11-C22 Aromatics (Unadj.)	210 NS <190
C9-C18 Aliphatics	4200 NS <190
C19-C36 Aliphatics	42000 NS <190
Bold type indicates detectable concentrations.	
Shaded area indicates detectable concentrations above 2L GWQS	

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: 2477-MW02

Client Sample ID:				2477-MW02
Date Sampled:				10/29/04
Analyte (ug/l)	2L GWQS	GCL	Result	
EPA 602				
1,2-Dichlorobenzene	620	72500	NA	
1,3-Dichlorobenzene	620	61500	NA	
1,4-Dichlorobenzene	75	39500	NA	
EPA 602				
Benzene	1	5000	<1.0	
Chlorobenzene	NS	NS	NA	
Methyl tert-butyl ether	200	200000	<1.0	
Ethylbenzene	29	29000	0.81 J	
Xylenes (total)	530	87500	1.6 J	
Toluene	1000	257500	<1.0	
Total BTEX			2.41	
EPA 610				
Naphthalene	21	15500	3.7 J	
Acenaphthene	80	2120	1.8 J	
Acenaphthylene	210	1965	<4.8	
Benzo(a)anthracene	0.05	22	<4.8	
Pyrene	210	210	<4.8	
Fluorene	280	950	3.9 J	
Anthracene	2100	2100	<4.8	
Fluoranthene	280	280	<4.8	
Phenanthrene	210	410	3.8 J	
MADEP VPH				
C5-C8 Aliphatics (Unadj.)	420	NS	<75	
C9-C12 Aliphatics (Unadj.)	NS	NS	457	
C9-C10 Aromatics (Unadj.)	NS	NS	367	
MADEP EPH				
C11-C22 Aromatics (Unadj.)	210	NS	1930	
C9-C18 Aliphatics	4200	NS	4880	
C19-C36 Aliphatics	42000	NS	1080	
Bold type indicates detectable concentrations.				
Shaded area indicates detectable concentrations above 2L GWQS.				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: 2477-MW03

Client Sample ID:			2477-MW03
Date Sampled:			10/26/04
Analyte (ug/l)	2L GWQS	GCL	Result
EPA 602			
1,2-Dichlorobenzene	620	72500	NA
1,3-Dichlorobenzene	620	61500	NA
1,4-Dichlorobenzene	75	39500	NA
EPA 602			
Benzene	1	5000	<1.0
Chlorobenzene	NS	NS	NA
Methyl tert-butyl ether	200	200000	<1.0
Ethylbenzene	29	29000	<1.0
Xylenes (total)	530	87500	<3.0
Toluene	1000	257500	<1.0
Total BTEX			0
EPA 610			
Naphthalene	21	15500	<4.8
Acenaphthene	80	2120	<4.8
Acenaphthylene	210	1965	<4.8
Benzo(a)anthracene	0.05	22	<4.8
Pyrene	210	210	<4.8
Fluorene	280	950	<4.8
Anthracene	2100	2100	<4.8
Fluoranthene	280	280	<4.8
Phenanthrene	210	410	<4.8
MADEP VPH			
C8-C8 Aliphatics (Unadj.)	420	NS	<75
C9-C12 Aliphatics (Unadj.)	NS	NS	<55
C9-C10 Aromatics (Unadj.)	NS	NS	<20
MADEP EPH			
C11-C22 Aromatics (Unadj.)	210	NS	<190
C9-C18 Aliphatics	4200	NS	<190
C19-C36 Aliphatics	42000	NS	<190
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above 2L GWQS			

J= estimated

P= >25% difference between column quantitation

B= detected in blank

NA= not analyzed

Analytical Data Summary Shallow Well: 2477-MW04

Client Sample ID:			2477-MW04
Date Sampled:			10/26/04
Analyte (ug/l)	2L GWQS	GC1	Result
EPA 602			
1,2-Dichlorobenzene	620	72500	NA
1,3-Dichlorobenzene	620	61500	NA
1,4-Dichlorobenzene	75	39500	NA
EPA 602			
Benzene	1	5000	<1.0
Chlorobenzene	NS	NS	NA
Methyl tert-butyl ether	200	200000	<1.0
Ethylbenzene	29	29000	<1.0
Xylenes (total)	530	87500	<3.0
Toluene	1000	257500	<1.0
Total BTEX			0
EPA 610			
Naphthalene	21	15500	<4.8
Acenaphthene	80	2120	<4.8
Acenaphthylene	210	1965	<4.8
Benzo(a)anthracene	0.05	22	<4.8
Pyrene	210	210	<4.8
Fluorene	280	950	<4.8
Anthracene	2100	2100	<4.8
Fluoranthene	280	280	<4.8
Phenanthrene	210	410	<4.8
MADEP VPH			
C5-C8 Aliphatics (Unad.)	420	NS	<75
C9-C12 Aliphatics (Unad.)	NS	NS	<55
C9-C10 Aromatics (Unad.)	NS	NS	<20
MADEP EPH			
C11-C22 Aromatics (Unad.)	210	NS	<190
C9-C18 Aliphatics	4200	NS	<190
C19-C36 Aliphatics	42000	NS	<190
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above 2L GWQS.			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary
Shallow Well: **2477-MW08**

Client Sample ID:				2477-MW08
Date Sampled:				10/20/04
Analyte (ug/l)	2L GWQS	QCL		Result
EPA 602				
1,2-Dichlorobenzene	620	72500		NA
1,3-Dichlorobenzene	620	61500		NA
1,4-Dichlorobenzene	75	39500		NA
EPA 602				
Benzene	1	5000		<1.0
Chlorobenzene	NS	NS		NA
Methyl tert-butyl ether	200	200000		<1.0
Ethylbenzene	29	29000		<1.0
Xylenes (total)	530	87500		<3.0
Toluene	1000	257500		<1.0
Total BTEX				0
EPA 610				
Naphthalene	21	15500		<5.0
Acenaphthene	80	2120		<5.0
Acenaphthylene	210	1965		<5.0
Benzo(a)anthracene	0.05	22		<5.0
Pyrene	210	210		<5.0
Fluorene	280	950		<5.0
Anthracene	2100	2100		<5.0
Fluoranthene	280	280		<5.0
Phenanthrene	210	410		<5.0
MADEP VPH				
C5-C8 Aliphatics (Unadj.)	420	NS		<75
C9-C12 Aliphatics (Unadj.)	NS	NS		<55
C9-C10 Aromatics (Unadj.)	NS	NS		<20
MADEP EPH				
C11-C22 Aromatics (Unadj.)	210	NS		<190
C9-C18 Aliphatics	4200	NS		<190
C19-C36 Aliphatics	42000	NS		<190
Bold type indicates detectable concentrations.				
Shaded area indicates detectable concentrations above 2L GWQS				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Analytical Data Summary Shallow Well: 2477-MW09

Client Sample ID:				2477-MW09
Date Sampled:				10/14/04
Analyte (ug/l)	2L GWQS	GCL		Result
EPA 602				
1,2-Dichlorobenzene	620	72500		NA
1,3-Dichlorobenzene	620	61500		NA
1,4-Dichlorobenzene	75	39500		NA
EPA 602				
Benzene	1	5000		<1.0
Chlorobenzene	NS	NS		NA
Methyl tert-butyl ether	200	200000		<1.0
Ethylbenzene	29	29000		<1.0
Xylenes (total)	530	87500		<3.0
Toluene	1000	257500		<1.0
Total BTEX				0
EPA 610				
Naphthalene	21	15500		<4.8
Acenaphthene	80	2120		<4.8
Acenaphthylene	210	1965		<4.8
Benzo(a)anthracene	0.05	22		<4.8
Pyrene	210	210		<4.8
Fluorene	280	950		<4.8
Anthracene	2100	2100		<4.8
Fluoranthene	280	280		<4.8
Phenanthrene	210	410		<4.8
MADEP VPH				
C5-C8 Aliphatics (Unadj.)	420	NS		<75
C9-C12 Aliphatics (Unadj.)	NS	NS		<55
C9-C10 Aromatics (Unadj.)	NS	NS		<20
MADEP EPH				
C11-C22 Aromatics (Unadj.)	210	NS		<190
C9-C18 Aliphatics	4200	NS		<190
C19-C36 Aliphatics	42000	NS		<190
Bold type indicates detectable concentrations.				
Shaded area indicates detectable concentrations above 2L GWQS.				

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

APPENDIX B

**LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM
2006 SAMPLING EVENT**



Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-46
Client Project: NV007

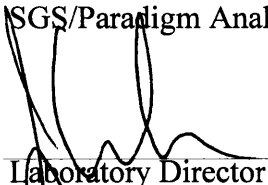
Dear Mr. Murray:

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

5/2/2006
Date



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW0B01

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 16:00

Lab Sample ID: G650-46-1A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

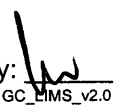
Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	25.0	7.9	25	4/19/2006	
Diisopropyl ether (DIPE)	BQL	25.0	7.35	25	4/19/2006	
Ethylbenzene	256	25.0	7.48	25	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	50.0	14.7	25	4/19/2006	
Toluene	591	25.0	7.55	25	4/19/2006	
m/p-Xylene	693	50.0	15.2	25	4/19/2006	
o-Xylene	158	50.0	14.9	25	4/19/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.8	97.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW01

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 13:04

Lab Sample ID: G650-46-2A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	0.665	1.00	0.316	1	4/19/2006	J
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	0.856	1.00	0.299	1	4/19/2006	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	2.39	1.00	0.302	1	4/19/2006	
m/p-Xylene	0.869	2.00	0.608	1	4/19/2006	J
o-Xylene	0.625	2.00	0.596	1	4/19/2006	J

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	99.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0

**Results for Volatiles**

by GC 602

Client Sample ID: USTTT2477-MW02

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 12:02

Lab Sample ID: G650-46-3A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	6.30	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	0.778	2.00	0.596	1	4/19/2006	J

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.3	98.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_EIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW06

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 15:20

Lab Sample ID: G650-46-4A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	4.85	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW11

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 15:18

Lab Sample ID: G650-46-5A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0

**Results for Volatiles**

by GC 602

Client Sample ID: USTTT2477-MW17D

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 11:40

Lab Sample ID: G650-46-6A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.3	98.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW19

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 14:00

Lab Sample ID: G650-46-7A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	47.0	118

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-Duplicate

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 0:00

Lab Sample ID: G650-46-8A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	0.629	1.00	0.316	1	4/19/2006	J
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	0.828	1.00	0.299	1	4/19/2006	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	2.19	1.00	0.302	1	4/19/2006	
m/p-Xylene	0.821	2.00	0.608	1	4/19/2006	J
o-Xylene	0.597	2.00	0.596	1	4/19/2006	J

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.1	97.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: Trip Blank

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/12/2006 0:00

Lab Sample ID: G650-46-9A

Date Received: 4/13/2006

Lab Project ID: G650-46

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5041906A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.0



Results for QC Check / Laboratory Control Spike

Method : 601 Spike[ppb] : 10

Filename : 041906/104b

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Bromodichloromethane	10.1	100.6	76.0	124.0	101	42	172
Bromoform	9.7	97.0	73.5	126.5	97	13	159
Bromomethane	7.0	69.8	58.5	141.5	70	D	144
Carbon tetrachloride	10.0	99.8	68.5	131.5	100	43	143
Chlorobenzene	9.7	96.7	72.0	128.0	97	38	150
Chloroethane	8.7	87.3	77.0	123.0	87	46	137
Chloroform	9.8	98.4	75.0	125.0	98	49	133
Chloromethane	8.0	79.6	59.5	140.5	80	D	193
Dibromochloromethane	9.7	97.2	65.5	134.5	97	24	191
• 1,2-Dibromoethane	9.9	99.2	13.6	186.4	99	D	206
1,2-Dichlorobenzene	9.5	94.5	70.0	130.0	95	D	208
1,3-Dichlorobenzene	9.6	95.5	49.5	150.5	96	7	187
1,4-Dichlorobenzene	9.6	95.8	69.5	130.5	96	42	143
1,1-Dichloroethane	9.8	98.5	84.0	116.0	98	47	132
1,2-Dichloroethane	10.0	100.2	71.5	128.5	100	51	147
1,1-Dichloroethene	8.9	89.4	63.0	137.0	89	28	167
• cis-1,2-Dichloroethene	10.2	102.3	34.4	180.6	102	19	181
trans-1,2-Dichloroethene	10.1	100.6	64.0	136.0	101	38	155
1,2-Dichloropropane	8.9	89.0	74.0	126.0	89	44	156
cis-1,3-Dichloropropene	9.9	98.9	64.0	136.0	99	22	178
trans-1,3-Dichloropropene	9.9	99.2	64.0	136.0	99	22	178
Methylene Chloride	10.0	99.7	77.5	122.5	100	25	162
1,1,2,2-Tetrachloroethane	19.4	96.8	49.0	151.0	97	8	184
Tetrachloroethene	19.7	98.6	70.0	130.0	99	26	162
1,1,1-Trichloroethane	9.8	98.4	71.0	129.0	98	41	138
1,1,2-Trichloroethane	8.5	85.0	78.5	121.5	85	39	136
Trichloroethene	9.9	99.5	77.0	123.0	99	35	146
Trichlorofluoromethane	8.8	88.4	66.5	133.5	88	21	156
Vinyl Chloride	8.2	82.2	68.5	131.5	82	28	163

Method: 602 Spike[ppb] : 10

Filename : 041906/004f

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.1	100.7	77.0	123.0	101	39	150
Chlorobenzene	10.2	102.1	80.5	119.5	102	55	135
1,2-Dichlorobenzene	9.6	95.9	68.0	132.0	96	37	154
1,3-Dichlorobenzene	19.9	99.5	72.5	127.5	99	50	141
1,4-Dichlorobenzene	9.7	97.3	69.5	130.5	97	42	143
• Diisopropyl ether	10.0	100.4	43.1	156.9	100	30	170
Ethylbenzene	10.3	103.2	63.0	137.0	103	32	160
• MTBE	20.1	100.6	46.8	153.2	101	35	165
Toluene	10.3	103.2	77.5	127.0	103	46	148
• m,p-Xylene	20.4	101.9	11.2	188.8	102	D	239
• o-Xylene	10.2	102.3	47.6	152.4	102	36	164

Flags :

- + = out of QC limits.
- ♦ = lab generated limits.
- D = Detected



Results for MS-MSD

Method : 601 Spike[ppb] : 10

Sample : 041906/120b

MS : 041906/122b

MSD : 041906/122b

Compound	µg/L			%REC		Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.0	10.0	100	100	42	172
Bromoform	ND	9.5	9.3	95	93	13	159
Bromomethane	ND	6.1	7.0	61	70	D	144
Carbon tetrachloride	ND	20.0	20.1	100	100	43	143
Chlorobenzene	ND	9.7	9.6	97	96	38	150
Chloroethane	ND	8.9	9.4	89	94	46	137
Chloroform	ND	10.0	10.0	100	99	49	133
Chloromethane	ND	8.9	9.3	88	92	D	193
Dibromochloromethane	ND	9.5	9.5	95	95	24	191
1,2-Dibromoethane	ND	9.5	9.5	95	95	D	206
1,2-Dichlorobenzene	ND	9.5	9.5	95	95	D	208
1,3-Dichlorobenzene	ND	9.6	9.6	96	96	7	187
1,4-Dichlorobenzene	ND	9.7	9.6	97	96	42	143
1,1-Dichloroethane	ND	9.9	9.9	99	99	47	132
1,2-Dichloroethane	ND	9.7	9.8	97	98	51	147
1,1-Dichloroethene	ND	9.3	9.5	93	95	28	167
cis-1,2-Dichloroethene	ND	17.5	17.7	87	89	19	181
trans-1,2-Dichloroethene	ND	9.9	10.0	99	100	38	155
1,2-Dichloropropane	ND	8.9	8.8	88	88	44	156
cis-1,3-Dichloropropene	ND	9.2	9.2	92	92	22	178
trans-1,3-Dichloropropene	ND	9.1	8.9	91	89	22	178
Methylene Chloride	ND	9.8	9.9	97	98	25	162
1,1,2,2-Tetrachloroethane	ND	19.2	19.0	96	95	8	184
Tetrachloroethane	ND	9.9	9.7	99	97	26	162
1,1,1-Trichloroethane	ND	9.9	9.9	99	99	41	138
1,1,2-Trichloroethane	ND	8.3	8.2	73	72	39	136
Trichloroethene	ND	10.1	10.1	101	101	35	146
Trichlorofluoromethane	ND	9.1	9.5	91	95	21	156
Vinyl Chloride	ND	8.2	8.7	81	86	28	163

Method: 602 Spike[ppb] : 10

Sample : 041906/020f

MS : 041906/021f

MSD : 041906/022f

Compound	µg/L			%REC		Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	10.6	10.5	100	99	39	150
Chlorobenzene	ND	10.5	10.3	105	103	55	135
1,2-Dichlorobenzene	ND	10.0	9.9	90	90	37	154
1,3-Dichlorobenzene	ND	20.7	20.4	104	102	50	141
1,4-Dichlorobenzene	ND	10.1	10.0	101	100	42	143
Diisopropyl ether	ND	10.3	10.1	103	101	30	170
Ethylbenzene	ND	10.8	10.6	108	106	32	160
MTBE	ND	20.9	20.7	104	103	35	165
Toluene	ND	10.6	10.5	106	105	46	148
m,p-Xylene	ND	21.5	21.1	108	105	D	239
o-Xylene	ND	21.5	21.1	108	105	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- ND = None Detected



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

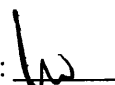
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW0B01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	1100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	940 (µg/L)
C ₉ -C ₁₀ Aromatics**	260 (µg/L)
Surrogate % Recovery - PID	110
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: g650-46-1e

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-46-2d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-46-3d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

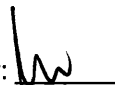
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW06
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-46-4d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW11
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	90
Surrogate % Recovery - FID	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-46-5d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

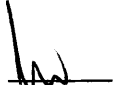
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW17D
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	89
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: g650-46-6d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW19
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	210 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	140***

* = 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.

***= High surrogate recovery due to matrix interference

Lab Info: g650-46-7d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	90
Surrogate % Recovery - FID	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-46-8d

Reviewed By: 



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 02/11/06PID Initial Calibration Date: 02/11/06

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	10.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	19.30	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 04/24/06

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000	200	10.0
C ₉ -C ₁₂ Aliphatics	500	50	-20.3
C ₉ -C ₁₀ Aromatics	500	50	11.0

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 02/11/06PID Initial Calibration Date: 02/11/06

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	10.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	19.30	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 04/25/06

Calibration Check

Range	Levels (mg/Kg) (µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000 200	6.3
C ₉ -C ₁₂ Aliphatics	500 50	-24.1
C ₉ -C ₁₀ Aromatics	500 50	13.1

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW0B01

Client Project ID: NV007

Lab Sample ID: G650-46-1H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 16:00

Date Received: 4/13/2006

Date Extracted: 4/14/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	7.10	10.0	1.33	1	4/19/2006	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	68.4	10.0	1.08	1	4/19/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2477-MW0B01
 Client Project ID: NV007
 Lab Sample ID: G650-46-1H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 16:00
 Date Received: 4/13/2006
 Date Extracted: 4/14/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8	80
2-Fluorophenol	10	7.5	75
Nitrobenzene-d5	10	9	90
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	8.5	85
4-Terphenyl-d14	10	11.7	117

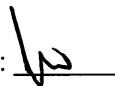
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW0B01
 Client Project ID: NV007
 Lab Sample ID: G650-46-1H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/12/2006 16:00
 Date Received: 4/13/2006
 Date Extracted: 4/14/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Trimethylbenzene, Isomer of	6.94			422
2	Dimethylbenzene, Isomer of	5.24			296
3	Dimethylbenzene, Isomer of	5.66			202
4	Ethylmethylbenzene, Isomer of	6.52			168
5	Ethylmethylbenzene, Isomer of	6.56			129
6	Trimethylbenzene, Isomer of	6.62			113
7	Ethylmethylbenzene, Isomer of	7.26			101
8	Aromatic, Unknown	7.44			97.8
9	Ethylidimethylbenzene, Isomer of	7.65			65.9
10	Ethylmethylbenzene, Isomer of	6.74			51.2

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: USTTT2477-MW01

Client Project ID: NV007

Lab Sample ID: G650-46-2H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 13:04

Date Received: 4/13/2006

Date Extracted: 4/14/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	10.6	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	2.10	10.0	1.22	1	4/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	3.00	10.0	1.08	1	4/19/2006	J



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2477-MW01
 Client Project ID: NV007
 Lab Sample ID: G650-46-2H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 13:04
 Date Received: 4/13/2006
 Date Extracted: 4/14/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.5	95
2-Fluorophenol	10	9.8	98
Nitrobenzene-d5	10	11.4	114
Phenol-d6	10	9.9	99
2,4,6-Tribromophenol	10	10.4	104
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: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW01
 Client Project ID: NV007
 Lab Sample ID: G650-46-2H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/12/2006 13:04
 Date Received: 4/13/2006
 Date Extracted: 4/14/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	9.84			154
2	Unknown	8.85			140
3	Unknown	12.19			92.3
4	Unknown	11.36			84.4
5	Unknown	11.51			70.7
6	Unknown	7.87			49.1
7	Unknown	12.10			46.7
8	Unknown	10.69			44.7
9	Unknown	9.93			42.7
10	Unknown	12.43			39.2

Comment:

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW02

Client Project ID: NV007

Lab Sample ID: G650-46-3H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 12:02

Date Received: 4/13/2006

Date Extracted: 4/14/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	5.40	10.0	1.33	1	4/19/2006	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	4.90	10.0	1.48	1	4/19/2006	J
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	1.80	10.0	1.22	1	4/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	1.10	10.0	1.08	1	4/19/2006	J



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW02

Client Project ID: NV007

Lab Sample ID: G650-46-3H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 12:02

Date Received: 4/13/2006

Date Extracted: 4/14/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	8.6	86
Nitrobenzene-d5	10	9.5	94
Phenol-d6	10	8.8	88
2,4,6-Tribromophenol	10	9.9	99
4-Terphenyl-d14	10	9.6	96

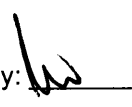
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW02
 Client Project ID: NV007
 Lab Sample ID: G650-46-3H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

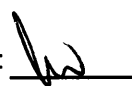
Analyzed By: MRC
 Date Collected: 4/12/2006 12:02
 Date Received: 4/13/2006
 Date Extracted: 4/14/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.18			64.8
2	Unknown	11.36			54.8
3	Unknown	7.87			47.3
4	Unknown	8.82			46.1
5	Unknown	12.43			42.7
6	Unknown	12.10			36.3
7	Unknown	9.78			36.2
8	Unknown	11.50			34.5
9	Unknown	10.71			33.8
10	Unknown	12.51			27.4

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: USTTT2477-MW06

Client Project ID: NV007

Lab Sample ID: G650-46-4H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 15:20

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW06

Client Project ID: NV007

Lab Sample ID: G650-46-4H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 15:20

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	9.1	91
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	7.9	79
4-Terphenyl-d14	10	11.1	111

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW06
 Client Project ID: NV007
 Lab Sample ID: G650-46-4H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/12/2006 15:20
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

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

Comment:

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Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2477-MW11

Client Project ID: NV007

Lab Sample ID: G650-46-5H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 15:18

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2477-MW11
 Client Project ID: NV007
 Lab Sample ID: G650-46-5H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 15:18
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	7.9	79
2,4,6-Tribromophenol	10	8.1	81
4-Terphenyl-d14	10	9.7	97

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW11
 Client Project ID: NV007
 Lab Sample ID: G650-46-5H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/12/2006 15:18
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	3.94			13.3
2	Carboxylic Acid, Unknown	5.15			6.26
3	Unknown	6.34			6.1
4	Unknown	11.37			4.9
5	Unknown	10.48			4.78
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: USTTT2477-MW17D

Client Project ID: NV007

Lab Sample ID: G650-46-6H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 11:40

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW17D
 Client Project ID: NV007
 Lab Sample ID: G650-46-6H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 11:40
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

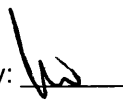
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.9	88
Phenol-d6	10	8.2	82
2,4,6-Tribromophenol	10	7.2	72
4-Terphenyl-d14	10	11.3	113

Comments:

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

Flags:

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

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTTT2477-MW17D
Client Project ID: NV007
Lab Sample ID: G650-46-6H
Lab Project ID: G650-46
Sample Wt/Vol: 500 ML
Dilution: 1

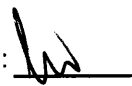
Analyzed By: MRC
Date Collected: 4/12/2006 11:40
Date Received: 4/13/2006
Date Extracted: 4/17/2006
Date Analyzed: 4/19/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW19

Client Project ID: NV007

Lab Sample ID: G650-46-7H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 14:00

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW19
 Client Project ID: NV007
 Lab Sample ID: G650-46-7H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 14:00
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.8	88
2-Fluorophenol	10	9.1	91
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	8.8	88
2,4,6-Tribromophenol	10	8.3	83
4-Terphenyl-d14	10	12.3	123

Comments:

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

Flags:

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

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW19
 Client Project ID: NV007
 Lab Sample ID: G650-46-7H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

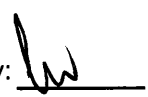
Analyzed By: MRC
 Date Collected: 4/12/2006 14:00
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Dimethylpropylbenzene, Isomer of	8.52			15.4
2	Trimethylbenzene, Isomer of	9.15			11.3
3	Unknown	3.82			9.58
4	Aromatic, Unknown	8.70			8.46
5	Unknown	5.84			6.15
6	Diethylmethylbenzene, Isomer of	8.14			5.65
7	Unknown	7.55			5.18
8	Unknown	5.04			4.6
9	Unknown	8.31			4.54
10	Unknown	6.07			4.44

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: USTTT2477-Duplicate

Client Project ID: NV007

Lab Sample ID: G650-46-8H

Lab Project ID: G650-46

Analyzed By: MRC

Date Collected: 4/12/2006 0:00

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	14.0	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	2.20	10.0	1.22	1	4/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-Duplicate
 Client Project ID: NV007
 Lab Sample ID: G650-46-8H
 Lab Project ID: G650-46

Analyzed By: MRC
 Date Collected: 4/12/2006 0:00
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.3	93
2-Fluorophenol	10	9.4	94
Nitrobenzene-d5	10	11.1	111
Phenol-d6	10	9.4	94
2,4,6-Tribromophenol	10	9.7	97
4-Terphenyl-d14	10	10.6	105

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-Duplicate
 Client Project ID: NV007
 Lab Sample ID: G650-46-8H
 Lab Project ID: G650-46
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/12/2006 0:00
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/19/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	8.87			331
2	Unknown	9.83			199
3	Unknown	12.19			90.9
4	Ketone, Unknown	11.36			88.6
5	Ketone, Unknown	11.51			75.8
6	Unknown	9.92			56.2
7	Unknown	10.69			48.3
8	Unknown	12.10			47.8
9	Unknown	12.52			43.4
10	Unknown	10.72			31.9

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB4930

Lab Project ID:

Analyzed By: MRC

Date Collected:

Date Received:

Date Extracted: 4/14/2006

Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB4930
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 4/14/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	89
2-Fluorophenol	10	10.7	107
Nitrobenzene-d5	10	11.1	111
Phenol-d6	10	10.2	102
2,4,6-Tribromophenol	10	8.9	89
4-Terphenyl-d14	10	12	120

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 Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB4938
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 4/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB4938
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 4/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.7	77
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	9	90
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	6.5	65
4-Terphenyl-d14	10	12	120

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-4930-MS/MSD/LCS

Date Extracted: 04/14/06

Lab Project ID:

Date Analyzed: 04/19/06

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	244	243	99.8	244	244	100.0	0.400	30	62.0-119
4-Chloro-3-methylphenol	BQL	244	227	93.0	244	213	87.2	6.44	30	67.0-109
2-Chlorophenol	BQL	244	221	90.7	244	213	87.3	3.82	30	59.0-95.0
1,4-Dichlorobenzene	BQL	244	130	53.1	244	130	53.3	0.376	30	29.0-86.0
2,4-Dinitrotoluene	BQL	244	219	89.8	244	211	86.5	3.74	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	244	204	83.8	244	198	81.2	3.15	30	67.0-107
4-Nitrophenol	BQL	244	215	88.3	244	196	80.2	9.61	30	49.0-146
Pentachlorophenol	BQL	244	160	65.8	244	153	62.9	4.51	30	43.0-106
Phenol	BQL	244	221	90.7	244	214	87.9	3.14	30	61.0-100
Pyrene	BQL	244	216	88.5	244	228	93.5	5.49	30	41.0-123
1,2,4-Trichlorobenzene	BQL	244	159	65.1	244	167	68.3	4.80	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	102	102	72.9-127
4-Chloro-3-methylphenol	100	91.7	91.7	61.6-113
2-Chlorophenol	100	93.3	93.3	52.3-104
1,4-Dichlorobenzene	100	50.3	50.3	27.3-85.0
2,4-Dinitrotoluene	100	87.9	87.9	66.5-117
N-Nitrosodi-n-propylamine	100	85.5	85.5	54.4-119
4-Nitrophenol	100	84.6	84.6	32.4-150
Pentachlorophenol	100	61.9	61.9	23.9-115
Phenol	100	93.1	93.1	54.5-106
Pyrene	100	90.6	90.6	63.5-126
1,2,4-Trichlorobenzene	100	65.4	65.4	49.1-98.5

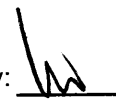
Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

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-4938-MS/MSD/LCS

Date Extracted: 04/17/06

Lab Project ID:

Date Analyzed: 04/19/06

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	222	210	94.6	222	217	97.6	3.12	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	206	92.8	222	206	92.5	0.324	30	67.0-109
2-Chlorophenol	BQL	222	197	88.5	222	191	86.0	2.87	30	59.0-95.0
1,4-Dichlorobenzene	BQL	222	117	52.5	222	111	49.9	5.08	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	182	81.8	222	187	84.1	2.77	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	176	79.1	222	172	77.3	2.30	30	67.0-107
4-Nitrophenol	BQL	222	141	63.3	222	148	66.7	5.23	30	49.0-146
Pentachlorophenol	BQL	222	0.00	0.00*	222	0.00	0.00*	0.00*	30	43.0-106
Phenol	BQL	222	201	90.3	222	197	88.6	1.90	30	61.0-100
Pyrene	BQL	222	201	90.6	222	187	84.2	7.32	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	149	67.2	222	144	64.6	3.95	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	96.2	96.2	72.9-127
4-Chloro-3-methylphenol	100	90.2	90.2	61.6-113
2-Chlorophenol	100	85.2	85.2	52.3-104
1,4-Dichlorobenzene	100	43.6	43.6	27.3-85.0
2,4-Dinitrotoluene	100	82.2	82.2	66.5-117
N-Nitrosodi-n-propylamine	100	77.9	77.9	54.4-119
4-Nitrophenol	100	42.1	42.1	32.4-150
Pentachlorophenol	100	0.00	0.00*	23.9-115
Phenol	100	88.8	88.8	54.5-106
Pyrene	100	95.4	95.4	63.5-126
1,2,4-Trichlorobenzene	100	61.7	61.7	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

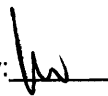
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW0B01
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	88
Aromatic Surrogate % Recovery	44
Fractionation Surrogate 1 % Recovery	53

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-46-1K

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

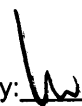
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW01
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	130 (ug/L)
Aliphatic Surrogate % Recovery	98
Aromatic Surrogate % Recovery	74
Fractionation Surrogate 1 % Recovery	82

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-46-2I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

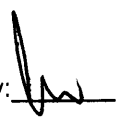
Client Name: Sovereign ConsultingProject Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW02
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	190 (ug/L)
Aliphatic Surrogate % Recovery	96
Aromatic Surrogate % Recovery	80
Fractionation Surrogate 1 % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-46-3I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

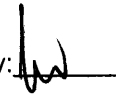
Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW06
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	81

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-46-41

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW11
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	95
Aromatic Surrogate % Recovery	70
Fractionation Surrogate 1 % Recovery	82

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-46-5I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

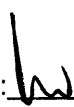
Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW17D
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	60

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-46-6I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW19
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
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	66

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-46-7I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-Duplicate
Sample Matrix	Water
Date Collected	04/12/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/28/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	120 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	74
Fractionation Surrogate 1 % Recovery	79

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-46-8J

Reviewed By: 



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information
--

Initial Calibration Date: 04/19/06**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	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 04/24/06**Calibration Check**

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	4.3
C ₁₉ -C ₃₆ Aliphatics	160	0.7
C ₁₁ -C ₂₂ Aromatics	340	-5.6

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

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



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information
--

Initial Calibration Date: 04/19/06**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	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 04/27/06**Calibration Check**

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	2.2
C ₁₉ -C ₃₆ Aliphatics	160	0.8
C ₁₁ -C ₂₂ Aromatics	340	-2.2

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

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



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.



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1 CLIENT: <u>Sovereign Consulting</u>				SGS Reference: <u>6650-46</u>				PAGE <u>1</u> OF <u>1</u>	
CONTACT: <u>CNris Murray</u>		PHONE NO: <u>757 777 8982</u>		PROJECT: <u>NV007</u>		SITE/PWSID#: <u>TT2477178</u>		REPORTS TO: <u>CNris Murray</u>	
FAX NO: <u>757 594 9227</u>		QUOTE # <u>606THUMBIE SMOAS Bldg Ste A-1</u>		PO. NUMBER <u>NEWPORT NEWS, VA 23606</u>		No CONTAINERS		SAMPLE TYPE C= COMP G= GRAB	
INVOICE TO: <u>CNris Murray</u>		DATE <u>04/12/06</u>		TIME <u>11:00</u>		MATRIX <u>W</u>		Analysis Required	
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		Preservatives Used	
		USTTT2477-MW0B01		04/12/06		11:00		HCl HCl HCl HCl	
		USTTT2477-MW01		04/12/06		1304		WPH	
		USTTT2477-MW02		04/12/06		1202		625+TLC	
		USTTT2477-MW06		04/12/06		1520		EPH	
		USTTT2477-MW11		04/12/06		1518			
		USTTT2478-MW17D		04/12/06		1140			
		USTTT2478-MW19		04/12/06		1400			
		USTTT2477-Duplicate		04/12/06		—			
		TRUP		04/13/06		0800			
5 Collected/Relinquished By: (1)		Date		Time		Received By:		Shipping Carrier:	
<u>[Signature]</u>		4/12/06		1030		<u>[Signature]</u>		Shipping Ticket No:	
Relinquished By: (2)		Date		Time		Received By:		Special Deliverable Requirements:	
<u>[Signature]</u>						<u>[Signature]</u>		Requested Turnaround Time and Special Instructions:	
Relinquished By: (3)		Date		Time		Received By:		Standard Turnaround	
<u>[Signature]</u>						<u>[Signature]</u>		Email results to: <u>cmurray@sovecon.com</u>	
Relinquished By: (4)		Date		Time		Received By:		EDD format <u>mail@sovecon.com</u>	
SGS								Samples Received Cold? (Circle) YES NO	
								Temperature (C): <u>25.3</u> <u>21.3</u> <u>6.8</u>	
								Chain of Custody Seal: (Circle)	
								INTACT BROKEN ABSENT	

□ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
□ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

□ 1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Sampler



Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-47
Client Project: NV007

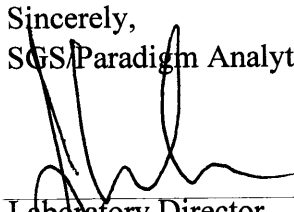
Dear Mr. Murray:

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

5/4/2006
Date



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW14

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 9:50

Lab Sample ID: G650-47-1A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2478-MW17

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 14:23

Lab Sample ID: G650-47-2A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2478-MW18

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 14:25

Lab Sample ID: G650-47-3A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	1.05	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	1.17	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	47.4	119

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTTT2478-MW20

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 11:30

Lab Sample ID: G650-47-4B

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	4.00	1.26	4	4/20/2006	
Diisopropyl ether (DIPE)	2.06	4.00	1.18	4	4/20/2006	J
Ethylbenzene	80.6	4.00	1.2	4	4/20/2006	
Methyl-tert butyl ether (MTBE)	3.84	8.00	2.35	4	4/20/2006	J
Toluene	90.4	4.00	1.21	4	4/20/2006	
m/p-Xylene	204	8.00	2.43	4	4/20/2006	
o-Xylene	106	8.00	2.38	4	4/20/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	43.4	109

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2478-MW21D

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 12:30

Lab Sample ID: G650-47-5A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.7	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

 Reviewed By: 
 Copy of GC_LIMS_v2.0



Results for Volatiles

by GC 602

Client Sample ID: USTTT2478-MW23

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 13:20

Lab Sample ID: G650-47-6B

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/20/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/20/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/20/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/20/2006	
Toluene	BQL	1.00	0.302	1	4/20/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/20/2006	
o-Xylene	BQL	2.00	0.596	1	4/20/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	44.3	111

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTTT2478-MW24

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 11:19

Lab Sample ID: G650-47-7A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.9	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MW0B10

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 9:35

Lab Sample ID: G650-47-8A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	13.6	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	59.4	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	18.9	1.00	0.302	1	4/19/2006	
m/p-Xylene	78.9	2.00	0.608	1	4/19/2006	
o-Xylene	15.6	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	43.8	109

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2478-MWSS100

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 3/11/2006 10:45

Lab Sample ID: G650-47-9A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.8	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTTT2477-MWPVC101

Analyzed By: MJC

Client Project ID: NV007

Date Collected: 4/11/2006 10:22

Lab Sample ID: G650-47-10A

Date Received: 4/13/2006

Lab Project ID: G650-47

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	1450	50.0	15.8	50	4/21/2006	
Diisopropyl ether (DIPE)	BQL	50.0	14.7	50	4/21/2006	
Ethylbenzene	1850	50.0	15	50	4/21/2006	
Methyl-tert butyl ether (MTBE)	BQL	100	29.4	50	4/21/2006	
Toluene	476	50.0	15.1	50	4/21/2006	
m/p-Xylene	1790	100	30.4	50	4/21/2006	
o-Xylene	BQL	100	29.8	50	4/21/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.4	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3042006A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/20/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/20/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/20/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/20/2006	
Toluene	BQL	1.00	0.302	1	4/20/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/20/2006	
o-Xylene	BQL	2.00	0.596	1	4/20/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.9	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Control Limits for QC Check / Laboratory Control Spike

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 042006\004r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.7	106.9	77.0	123.0	107	39	150
Chlorobenzene	10.5	104.7	80.5	119.5	105	55	135
1,2-Dichlorobenzene	10.6	106.3	68.0	132.0	106	37	154
1,3-Dichlorobenzene	10.3	103.1	72.5	127.5	103	50	141
1,4-Dichlorobenzene	10.4	104.3	69.5	130.5	104	42	143
• Diisopropyl ether	10.2	102.3	43.1	156.9	102	30	170
Ethylbenzene	11.2	112.0	63.0	137.0	112	32	160
• MTBE	10.6	105.7	46.8	153.2	106	35	165
Toluene	10.7	106.7	77.5	127.0	107	46	148
• m,p-Xylene	21.9	109.5	11.2	188.8	109	D	239
• o-Xylene	10.8	108.4	47.6	152.4	108	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

 Reviewed by: 



Control Limits for MS-MSD

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Sample : 042006\019r0101.txt
 MS : 042006\020r0101.txt
 MSD : 042006\021r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	31.4	41.8	43.1	106	117	39	160
Chlorobenzene	ND	10.6	10.9	106	109	55	136
1,2-Dichlorobenzene	ND	10.8	11.3	104	109	37	154
1,3-Dichlorobenzene	ND	10.4	10.8	103	108	50	141
1,4-Dichlorobenzene	ND	10.2	10.5	102	105	42	143
• Diisopropyl ether	1.9	12.3	12.6	104	107	30	170
Ethylbenzene	24.6	36.4	37.5	119	130	32	160
• MTBE	ND	10.6	11.0	106	110	35	165
Toluene	1.9	12.9	13.3	110	114	46	148
• m,p-Xylene	15.5	37.3	38.5	109	115	D	239
• o-Xylene	1.0	12.1	12.5	110	115	36	164

Flags :

+ = out of QC limits.
 ♦ = lab generated limits.
 D = Detected
 ND = None Detected

 Reviewed by: 



Results for Volatiles

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3042106A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/21/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/21/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/21/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/21/2006	
Toluene	BQL	1.00	0.302	1	4/21/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/21/2006	
o-Xylene	BQL	2.00	0.596	1	4/21/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.0	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



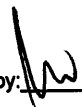
Control Limits for QC Check / Laboratory Control Spike

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 042106\004r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.4	103.7	77.0	123.0	104	39	150
Chlorobenzene	10.3	102.6	80.5	119.5	103	55	135
1,2-Dichlorobenzene	10.6	105.9	68.0	132.0	106	37	154
1,3-Dichlorobenzene	10.2	102.0	72.5	127.5	102	50	141
1,4-Dichlorobenzene	10.3	103.2	69.5	130.5	103	42	143
• Diisopropyl ether	9.9	98.8	43.1	156.9	99	30	170
Ethylbenzene	11.0	109.7	63.0	137.0	110	32	160
• MTBE	10.2	101.7	48.8	153.2	102	35	165
Toluene	10.4	104.3	77.5	127.0	104	46	148
• m,p-Xylene	21.5	107.4	11.2	188.8	107	D	239
• o-Xylene	10.7	106.6	47.6	152.4	107	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

 Reviewed by: 



Control Limits for MS-MSD

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Sample : 042106\020r0101.txt
 MS : 042106\021r0101.txt
 MSD : 042106\022r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	28.9	39.1	39.6	102	107	39	160
Chlorobenzene	ND	10.8	10.7	108	107	55	135
1,2-Dichlorobenzene	1.2	11.9	11.8	108	106	37	154
1,3-Dichlorobenzene	ND	10.8	10.7	106	105	50	141
1,4-Dichlorobenzene	ND	10.4	10.3	104	103	42	143
• Diisopropyl ether	ND	10.5	10.4	104	103	30	170
Ethylbenzene	36.9	47.6	48.1	107	112	32	160
• MTBE	ND	10.6	10.6	106	106	35	165
Toluene	9.5	20.4	20.5	109	110	46	148
• m,p-Xylene	35.9	57.3	57.6	107	108	D	239
• o-Xylene	ND	11.5	11.4	114	113	36	164

Flags :

+ = out of QC limits.
 ♦ = lab generated limits.
 D = Detected
 ND = None Detected

Reviewed by: 



Results for Volatiles

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5041806B

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.9	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for QC Check / Laboratory Control Spike

Method : 601 Spike[ppb] : 10

Filename : 041806/124b

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Bromodichloromethane	9.8	98.0	76.0	124.0	98	42	172
Bromoform	9.7	96.9	73.5	126.5	97	13	159
Bromomethane	6.8	68.0	58.5	141.5	68	D	144
Carbon tetrachloride	9.4	93.6	68.5	131.5	94	43	143
Chlorobenzene	9.2	91.6	72.0	128.0	92	38	150
Chloroethane	8.8	88.3	77.0	123.0	88	46	137
Chloroform	9.4	94.3	75.0	125.0	94	49	133
Chloromethane	9.1	91.4	59.5	140.5	91	D	193
Dibromochloromethane	9.6	95.6	65.5	134.5	96	24	191
1,2-Dibromoethane	9.6	95.6	13.6	186.4	96	D	206
1,2-Dichlorobenzene	8.7	87.1	70.0	130.0	87	D	208
1,3-Dichlorobenzene	8.7	87.2	49.5	150.5	87	7	187
1,4-Dichlorobenzene	8.7	87.2	69.5	130.5	87	42	143
1,1-Dichloroethane	9.3	93.1	84.0	116.0	93	47	132
1,2-Dichloroethane	9.7	96.7	71.5	128.5	97	51	147
1,1-Dichloroethene	9.0	89.6	63.0	137.0	90	28	167
cis-1,2-Dichloroethene	8.9	89.3	34.4	180.6	89	19	181
trans-1,2-Dichloroethene	9.5	94.9	64.0	136.0	95	38	155
1,2-Dichloropropane	8.4	84.3	74.0	126.0	84	44	156
cis-1,3-Dichloropropene	9.2	92.2	64.0	136.0	92	22	178
trans-1,3-Dichloropropene	9.4	94.4	64.0	136.0	94	22	178
Methylene Chloride	9.5	95.5	77.5	122.5	95	25	162
1,1,2,2-Tetrachloroethane	18.7	93.4	49.0	151.0	93	8	184
Tetrachloroethene	18.7	93.4	70.0	130.0	93	26	162
1,1,1-Trichloroethane	9.2	92.3	71.0	129.0	92	41	138
1,1,2-Trichloroethane	8.4	84.1	78.5	121.5	84	39	136
Trichloroethene	9.6	96.1	77.0	123.0	96	35	146
Trichlorofluoromethane	8.9	88.6	66.5	133.5	89	21	156
Vinyl Chloride	8.1	80.9	68.5	131.5	81	28	163

Method: 602 Spike[ppb] : 10

Filename : 041806/024f

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.4	103.7	77.0	123.0	104	39	150
Chlorobenzene	10.5	105.2	80.5	119.5	105	55	135
1,2-Dichlorobenzene	9.7	96.7	68.0	132.0	97	37	154
1,3-Dichlorobenzene	19.5	97.3	72.5	127.5	97	50	141
1,4-Dichlorobenzene	9.7	97.1	69.5	130.5	97	42	143
Diisopropyl ether	10.6	106.2	43.1	156.9	106	30	170
Ethylbenzene	10.5	104.6	63.0	137.0	105	32	160
MTBE	20.8	104.1	46.8	153.2	104	35	165
Toluene	10.6	105.9	77.5	127.0	106	46	148
m,p-Xylene	20.5	102.3	11.2	188.8	102	D	239
o-Xylene	10.4	103.7	47.6	152.4	104	36	164

Flags :

- + = out of QC limits.
- ♦ = lab generated limits.
- D = Detected



Results for MS-MSD

Method : 601 Spike[ppb] : 10

Sample : 041806/139b

MS : 041806/141b

MSD : 041806/141b

Compound	µg/L			%REC		Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.0	10.0	100	100	42	172
Bromoform	ND	9.5	9.3	95	93	13	159
Bromomethane	ND	6.1	7.0	61	70	D	144
Carbon tetrachloride	ND	20.0	20.1	100	100	43	143
Chlorobenzene	ND	9.7	9.6	96	96	38	150
Chloroethane	ND	8.9	9.4	89	94	46	137
Chloroform	ND	10.0	10.0	100	99	49	133
Chloromethane	ND	8.9	9.3	89	93	D	193
Dibromochloromethane	ND	9.5	9.5	95	95	24	191
1,2-Dibromoethane	ND	9.5	9.5	95	95	D	206
1,2-Dichlorobenzene	ND	9.5	9.5	95	95	D	208
1,3-Dichlorobenzene	ND	9.6	9.6	96	96	7	187
1,4-Dichlorobenzene	ND	9.7	9.6	97	96	42	143
1,1-Dichloroethane	ND	9.9	9.9	99	99	47	132
1,2-Dichloroethane	ND	9.7	9.8	97	98	51	147
1,1-Dichloroethene	ND	9.3	9.5	92	94	28	167
cis-1,2-Dichloroethene	ND	17.5	17.7	87	89	19	181
trans-1,2-Dichloroethene	ND	9.9	10.0	99	100	38	155
1,2-Dichloropropane	ND	8.9	8.8	88	87	44	156
cis-1,3-Dichloropropene	ND	9.2	9.2	92	92	22	178
trans-1,3-Dichloropropene	ND	9.1	8.9	91	89	22	178
Methylene Chloride	ND	9.8	9.9	97	99	25	162
1,1,2,2-Tetrachloroethane	ND	19.2	19.0	96	95	8	184
Tetrachloroethane	ND	9.9	9.7	99	97	26	162
1,1,1-Trichloroethane	ND	9.9	9.9	99	99	41	138
1,1,2-Trichloroethane	ND	8.3	8.2	79	78	39	136
Trichloroethene	ND	10.1	10.1	101	101	35	146
Trichlorofluoromethane	ND	9.1	9.5	91	95	21	156
Vinyl Chloride	ND	8.2	8.7	82	87	28	163

Method: 602 Spike[ppb] : 10

Sample : 041806/039f

MS : 041806/040f

MSD : 041806/041f

Compound	µg/L			%REC		Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	10.6	10.5	100	99	39	150
Chlorobenzene	ND	10.5	10.3	105	103	55	135
1,2-Dichlorobenzene	ND	10.0	9.9	90	90	37	154
1,3-Dichlorobenzene	ND	20.7	20.4	104	102	50	141
1,4-Dichlorobenzene	ND	10.1	10.0	101	100	42	143
Diisopropyl ether	ND	10.3	10.1	103	101	30	170
Ethylbenzene	ND	10.8	10.6	108	106	32	160
MTBE	ND	20.9	20.7	104	103	35	165
Toluene	ND	10.6	10.5	106	105	46	148
m,p-Xylene	ND	21.5	21.1	108	105	D	239
o-Xylene	ND	21.5	21.1	108	105	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- ND = None Detected

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3041906A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/19/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/19/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/19/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/19/2006	
Toluene	BQL	1.00	0.302	1	4/19/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/19/2006	
o-Xylene	BQL	2.00	0.596	1	4/19/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.7	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



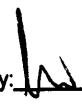
Control Limits for QC Check / Laboratory Control Spike

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 041906\004r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.6	105.6	77.0	123.0	106	39	160
Chlorobenzene	10.4	104.2	80.5	119.5	104	55	135
1,2-Dichlorobenzene	10.5	105.0	68.0	132.0	105	37	164
1,3-Dichlorobenzene	10.3	103.0	72.5	127.5	103	50	141
1,4-Dichlorobenzene	10.3	103.4	69.5	130.5	103	42	143
• Diisopropyl ether	10.3	102.9	43.1	166.9	103	30	170
Ethylbenzene	11.0	110.3	63.0	137.0	110	32	160
• MTBE	10.5	104.8	46.8	163.2	105	35	165
Toluene	10.6	105.7	77.5	127.0	106	46	148
• m,p-Xylene	21.6	107.8	11.2	188.8	108	D	239
• o-Xylene	10.8	108.4	47.6	162.4	108	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

 Reviewed by: 



Control Limits for MS-MSD

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Sample : 041906\019r0101.txt
 MS : 041906\020r0101.txt
 MSD : 041906\021r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	11.1	11.4	106	109	39	160
Chlorobenzene	ND	10.4	10.7	104	107	55	135
1,2-Dichlorobenzene	ND	10.8	11.2	102	107	37	164
1,3-Dichlorobenzene	ND	10.4	10.7	103	106	50	141
1,4-Dichlorobenzene	ND	10.1	10.4	101	104	42	143
• Diisopropyl ether	ND	11.6	11.8	115	117	30	170
Ethylbenzene	6.5	18.0	18.3	114	117	32	160
• MTBE	ND	10.4	10.7	104	107	35	165
Toluene	18.3	28.1	28.5	98	101	46	148
• m,p-Xylene	26.8	47.1	47.8	102	105	D	239
• o-Xylene	6.0	16.6	16.8	105	108	36	164

Flags :

+ = out of QC limits.
 • = lab generated limits.
 D = Detected
 ND = None Detected

Reviewed by: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

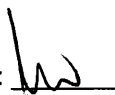
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW14
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/18/06
Date Analyzed	04/18/06
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	99
Surrogate % Recovery - FID	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-1d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

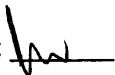
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW17
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/18/06
Date Analyzed	04/18/06
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	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-2d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

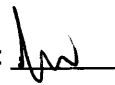
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW18
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/18/06
Date Analyzed	04/18/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	120 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	130

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-3d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

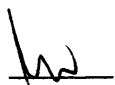
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW20
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/18/06
Date Analyzed	04/18/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	650 (µg/L)
C ₉ -C ₁₂ Aliphatics**	640 (µg/L)
C ₉ -C ₁₀ Aromatics**	340 (µg/L)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-4d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

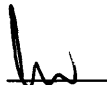
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW21D
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/24/06
Date Analyzed	04/24/06
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	88
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: g650-47-5d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

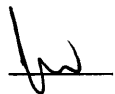
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW23
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/24/06
Date Analyzed	04/24/06
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	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-6d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW24
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/24/06
Date Analyzed	04/24/06
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	90
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: g650-47-7d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW0B10
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	220 (µg/L)
C ₉ -C ₁₂ Aliphatics**	180 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	91
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: g650-47-8d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MWSS100
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	03/11/06
Date Received	04/13/06
Date Extracted	04/25/06
Date Analyzed	04/25/06
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	90
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: g650-47-9d

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MWPVC101
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/26/06
Date Analyzed	04/26/06
Dry Weight	
Dilution Factor	5
C ₅ -C ₈ Aliphatics**	4200 (µg/L)
C ₉ -C ₁₂ Aliphatics**	6000 (µg/L)
C ₉ -C ₁₀ Aromatics**	2100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

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

** = Excludes any surrogates or internal standards.

Lab Info: g650-47-10e

Reviewed By: 



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 02/11/06PID Initial Calibration Date: 02/11/06

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	10.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	19.30	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 04/18/06

Calibration Check

Range	Levels (mg/Kg) (µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000 200	9.0
C ₉ -C ₁₂ Aliphatics	500 50	-14.3
C ₉ -C ₁₀ Aromatics	500 50	7.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 02/11/06PID Initial Calibration Date: 02/11/06

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	10.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	19.30	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 04/24/06

Calibration Check

Range	Levels (mg/Kg) (µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000 200	10.0
C ₉ -C ₁₂ Aliphatics	500 50	-20.3
C ₉ -C ₁₀ Aromatics	500 50	11.0

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 02/11/06PID Initial Calibration Date: 02/11/06

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	10.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	19.30	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 04/25/06

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000	200	6.3
C ₉ -C ₁₂ Aliphatics	500	50	-24.1
C ₉ -C ₁₀ Aromatics	500	50	13.1

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW14
 Client Project ID: NV007
 Lab Sample ID: G650-47-1H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 9:50
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW14

Client Project ID: NV007

Lab Sample ID: G650-47-1H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 9:50

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.2	92		
2-Fluorophenol		10	10.2	102		
Nitrobenzene-d5		10	10.5	105		
Phenol-d6		10	9.5	95		
2,4,6-Tribromophenol		10	7.7	77		
4-Terphenyl-d14		10	10.7	107		

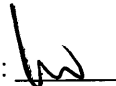
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW14
 Client Project ID: NV007
 Lab Sample ID: G650-47-1H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/11/2006 9:50
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW17

Client Project ID: NV007

Lab Sample ID: G650-47-2H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 14:23

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW17
 Client Project ID: NV007
 Lab Sample ID: G650-47-2H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 14:23
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	9.1	91
Phenol-d6	10	8.2	82
2,4,6-Tribromophenol	10	7.2	72
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: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW17
 Client Project ID: NV007
 Lab Sample ID: G650-47-2H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

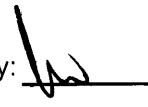
Analyzed By: MRC
 Date Collected: 4/11/2006 14:23
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW18

Client Project ID: NV007

Lab Sample ID: G650-47-3H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 14:25

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW18
 Client Project ID: NV007
 Lab Sample ID: G650-47-3H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 14:25
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	10	100
Nitrobenzene-d5	10	10.2	102
Phenol-d6	10	9.3	93
2,4,6-Tribromophenol	10	7.8	78
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: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW18
 Client Project ID: NV007
 Lab Sample ID: G650-47-3H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

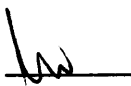
Analyzed By: MRC
 Date Collected: 4/11/2006 14:25
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2478-MW20
 Client Project ID: NV007
 Lab Sample ID: G650-47-4H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 11:30
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	10.9	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW20
 Client Project ID: NV007
 Lab Sample ID: G650-47-4H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 11:30
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9	90		
2-Fluorophenol		10	9.9	99		
Nitrobenzene-d5		10	10.2	102		
Phenol-d6		10	9.3	93		
2,4,6-Tribromophenol		10	8.1	81		
4-Terphenyl-d14		10	11.8	118		

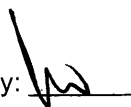
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW20
 Client Project ID: NV007
 Lab Sample ID: G650-47-4H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/11/2006 11:30
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Trimethylbenzene, Isomer of	6.93			238
2	Ethylmethylbenzene, Isomer of	6.52			114
3	Dimethylbenzene, Isomer of	5.66			107
4	Trimethylbenzene, Isomer of	6.62			96.7
5	Ethylmethylbenzene, Isomer of	6.56			91.2
6	Dimethylbenzene, Isomer of	5.25			78.5
7	Trimethylbenzene, Isomer of	6.43			52.7
8	Ethylmethylbenzene, Isomer of	7.26			47.7
9	Ethylidimethylbenzene, Isomer of	7.65			46.9
10	Ethenyldimethylbenzene, Isomer of	8.70			22.9

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: USTTT2478-MW21D

Client Project ID: NV007

Lab Sample ID: G650-47-5H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 12:30

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW21D
 Client Project ID: NV007
 Lab Sample ID: G650-47-5H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 12:30
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.2	92
2-Fluorophenol	10	10.2	102
Nitrobenzene-d5	10	10.3	103
Phenol-d6	10	9.4	94
2,4,6-Tribromophenol	10	7.6	76
4-Terphenyl-d14	10	12.7	127

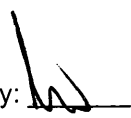
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW21D
 Client Project ID: NV007
 Lab Sample ID: G650-47-5H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

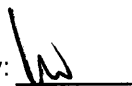
Analyzed By: MRC
 Date Collected: 4/11/2006 12:30
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW23

Client Project ID: NV007

Lab Sample ID: G650-47-6H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 13:20

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW23
 Client Project ID: NV007
 Lab Sample ID: G650-47-6H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 13:20
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.5	95
2-Fluorophenol	10	10.3	103
Nitrobenzene-d5	10	10.7	107
Phenol-d6	10	9.7	97
2,4,6-Tribromophenol	10	7.5	75
4-Terphenyl-d14	10	12.2	122

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW23
 Client Project ID: NV007
 Lab Sample ID: G650-47-6H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

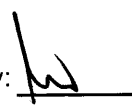
Analyzed By: MRC
 Date Collected: 4/11/2006 13:20
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW24

Client Project ID: NV007

Lab Sample ID: G650-47-7H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 11:19

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MW24
 Client Project ID: NV007
 Lab Sample ID: G650-47-7H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 11:19
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	9.7	97		
Nitrobenzene-d5		10	10	100		
Phenol-d6		10	9.1	91		
2,4,6-Tribromophenol		10	7	70		
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: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MW24
 Client Project ID: NV007
 Lab Sample ID: G650-47-7H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

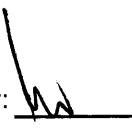
Analyzed By: MRC
 Date Collected: 4/11/2006 11:19
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTTT2477-MW0B10

Client Project ID: NV007

Lab Sample ID: G650-47-8H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 9:35

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	7.30	10.0	1.08	1	4/20/2006	J



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MW0B10

Client Project ID: NV007

Lab Sample ID: G650-47-8H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 4/11/2006 9:35

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.7	97		
2-Fluorophenol		10	10.9	109		
Nitrobenzene-d5		10	11	110		
Phenol-d6		10	10.1	101		
2,4,6-Tribromophenol		10	7.9	79		
4-Terphenyl-d14		10	12.3	123		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MW0B10

Client Project ID: NV007

Lab Sample ID: G650-47-8H

Lab Project ID: G650-47

Sample Wt/Vol: 500 ML

Dilution: 1

Analyzed By: MRC

Date Collected: 4/11/2006 9:35

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Date Analyzed: 4/20/2006

Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Trimethylbenzene, Isomer of	6.93			73.2
2	Aromatic, Unknown	7.43			14.8
3	Dimethylbenzene, Isomer of	5.24			13.8
4	Ethylmethylbenzene, Isomer of	6.62			12.8
5	Ethylmethylbenzene, Isomer of	7.26			11
6	Dimethylbenzene, Isomer of	5.66			10.8
7	Ethylmethylbenzene, Isomer of	6.52			9.14
8	Unknown	6.56			7.98
9	Unknown	7.65			6.07
10	Unknown	7.87			5.79

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: USTTT2478-MWSS100

Client Project ID: NV007

Lab Sample ID: G650-47-9H

Lab Project ID: G650-47

Analyzed By: MRC

Date Collected: 3/11/2006 10:45

Date Received: 4/13/2006

Date Extracted: 4/17/2006

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	BQL	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2478-MWSS100
 Client Project ID: NV007
 Lab Sample ID: G650-47-9H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 3/11/2006 10:45
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	BQL	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	9.7	97
Nitrobenzene-d5	10	9.8	98
Phenol-d6	10	9	90
2,4,6-Tribromophenol	10	6.7	67
4-Terphenyl-d14	10	12	120

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2478-MWSS100
 Client Project ID: NV007
 Lab Sample ID: G650-47-9H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

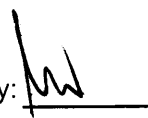
Analyzed By: MRC
 Date Collected: 3/11/2006 10:45
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

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

Comment:

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

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MWPVC101
 Client Project ID: NV007
 Lab Sample ID: G650-47-10H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 10:22
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/20/2006	
Anthracene	BQL	10.0	1.75	1	4/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/20/2006	
Chrysene	BQL	10.0	1.11	1	4/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/20/2006	
Fluoranthene	BQL	10.0	1.41	1	4/20/2006	
Fluorene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/20/2006	
Isophorone	BQL	10.0	1.27	1	4/20/2006	
Naphthalene	311	10.0	1.08	1	4/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTTT2477-MWPVC101
 Client Project ID: NV007
 Lab Sample ID: G650-47-10H
 Lab Project ID: G650-47

Analyzed By: MRC
 Date Collected: 4/11/2006 10:22
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/20/2006	
Phenanthrene	BQL	10.0	1.38	1	4/20/2006	
Phenol	11.1	10.0	3.38	1	4/20/2006	
Pyrene	BQL	10.0	2.08	1	4/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.6	86
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	10.4	104
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	8	80
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: 



Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: USTTT2477-MWPVC101
 Client Project ID: NV007
 Lab Sample ID: G650-47-10H
 Lab Project ID: G650-47
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 4/11/2006 10:22
 Date Received: 4/13/2006
 Date Extracted: 4/17/2006
 Date Analyzed: 4/20/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Ethenyldimethylbenzene, Isomer of	8.70			3180
2	Tetramethylbenzene, Isomer of	8.33			1390
3	Dimethylbenzene, Isomer of	5.26			1300
4	Tetramethylbenzene, Isomer of	8.37			939
5	Trimethylbenzene, Isomer of	6.94			704
6	Ethylmethylbenzene, Isomer of	6.52			508
7	Aromatic, Unknown	7.43			476
8	Aromatic, Unknown	8.77			381
9	Aromatic, Unknown	9.20			312
10	Unknown	8.51			288

Comment:

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

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB4937
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 4/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	4/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	4/19/2006	
Anthracene	BQL	10.0	1.75	1	4/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	4/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	4/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	4/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	4/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	4/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	4/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	4/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	4/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	4/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	4/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	4/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	4/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	4/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	4/19/2006	
Chrysene	BQL	10.0	1.11	1	4/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	4/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	4/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	4/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	4/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	4/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	4/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	4/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	4/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	4/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	4/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	4/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	4/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	4/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	4/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	4/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	4/19/2006	
Fluoranthene	BQL	10.0	1.41	1	4/19/2006	
Fluorene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	4/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	4/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	4/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	4/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	4/19/2006	
Isophorone	BQL	10.0	1.27	1	4/19/2006	
Naphthalene	BQL	10.0	1.08	1	4/19/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB4937
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 4/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	4/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	4/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	4/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	4/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	4/19/2006	
Phenanthrene	BQL	10.0	1.38	1	4/19/2006	
Phenol	BQL	10.0	3.38	1	4/19/2006	
Pyrene	BQL	10.0	2.08	1	4/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	4/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	4/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	9.3	93
Nitrobenzene-d5	10	9.4	94
Phenol-d6	10	8.8	88
2,4,6-Tribromophenol	10	7.5	75
4-Terphenyl-d14	10	11.2	112

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-4937-MS/MSD/LCS

Date Extracted: 04/17/06

Lab Project ID:

Date Analyzed: 04/19/06

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	222	215	96.9	227	224	98.7	1.84	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	192	86.4	227	203	89.1	3.08	30	67.0-109
2-Chlorophenol	BQL	222	189	85.2	227	208	91.5	7.13	30	59.0-95.0
1,4-Dichlorobenzene	BQL	222	117	52.5	227	118	52.0	0.957	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	182	81.7	227	195	85.7	4.78	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	178	79.9	227	187	82.1	2.72	30	67.0-107
4-Nitrophenol	BQL	222	180	81.0	227	164	72.1	11.6	30	49.0-146
Pentachlorophenol	BQL	222	136	61.3	227	152	66.7	8.44	30	43.0-106
Phenol	BQL	222	196	88.2	227	210	92.5	4.76	30	61.0-100
Pyrene	BQL	222	192	86.6	227	200	87.9	1.49	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	145	65.4	227	144	63.3	3.26	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	100	100	72.9-127
4-Chloro-3-methylphenol	100	89.5	89.5	61.6-113
2-Chlorophenol	100	91.7	91.7	52.3-104
1,4-Dichlorobenzene	100	49.9	49.9	27.3-85.0
2,4-Dinitrotoluene	100	86.7	86.7	66.5-117
N-Nitrosodi-n-propylamine	100	82.4	82.4	54.4-119
4-Nitrophenol	100	79.2	79.2	32.4-150
Pentachlorophenol	100	62.7	62.7	23.9-115
Phenol	100	91.6	91.6	54.5-106
Pyrene	100	94.9	94.9	63.5-126
1,2,4-Trichlorobenzene	100	63.7	63.7	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

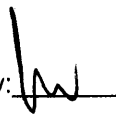
Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW14
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/24/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	82

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-47-11

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV007

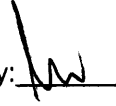
Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW17
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/24/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	74

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-47-2I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

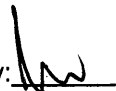
Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW18
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/24/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	80
Aromatic Surrogate % Recovery	57

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-47-3I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

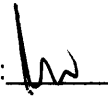
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW20
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	82
Aromatic Surrogate % Recovery	58
Fractionation Surrogate 1 % Recovery	67

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-47-4I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW21D
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
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	110
Aromatic Surrogate % Recovery	82

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-47-51

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW23
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
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	99
Aromatic Surrogate % Recovery	73

Comments:

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

Lab info: G650-47-6I

Reviewed By: LS



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MW24
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
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	99
Aromatic Surrogate % Recovery	70

Comments:

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

Lab info: G650-47-71

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

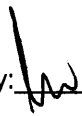
Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MW0B10
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/27/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	80
Aromatic Surrogate % Recovery	60
Fractionation Surrogate 1 % Recovery	72

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-47-81

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2478-MWSS100
Sample Matrix	Water
Date Collected	03/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	04/25/06
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	110
Aromatic Surrogate % Recovery	78

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-47-9I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV007

Sample Information and Analytical Results	
Sample Identification	USTTT2477-MWPVC101
Sample Matrix	Water
Date Collected	04/11/06
Date Received	04/13/06
Date Extracted	04/20/06
Date Analyzed	05/03/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	450 (ug/L)
Aliphatic Surrogate % Recovery	91
Aromatic Surrogate % Recovery	67
Fractionation Surrogate 1 % Recovery	76

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-47-10I

Reviewed By: lw



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

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	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 04/24/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	4.3
C ₁₉ -C ₃₆ Aliphatics	160	0.7
C ₁₁ -C ₂₂ Aromatics	340	-5.6

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

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	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 04/26/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	9.4
C ₁₉ -C ₃₆ Aliphatics	160	7.6
C ₁₁ -C ₂₂ Aromatics	340	-4.3

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

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	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/03/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-5.9
C ₁₉ -C ₃₆ Aliphatics	160	-9.9
C ₁₁ -C ₂₂ Aromatics	340	-18.1

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

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



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.



84 of 84

APPENDIX C

EXAMPLE FIELD DATA

[illegible]

[illegible]

Project Number: _____
Project Name: _____
Date: _____
Weather: _____

NV007
T2477/78
4/12/06

Well ID:
Sample ID:
Well Condition:

USTT 2471-MWOL

Protective Casing Diameter (inch):

Inner Casing Diameter (inch):

Inner Casing Material:

Purge/Sample Method:

PID/FID Reading of Well Headspace (ppm)

Before Cap Removal

After Cap Removal

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Depth to Top of Screen from TOC (feet):

Total Depth from TOC (feet):

6'' (1.469)

Water Column (feet):
Casing Volume (gal):
Pump Intake Setting from TOC (feet):
DTW After Pump installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time:
Sampler Name:

$$\begin{array}{r} 16.91 \\ 24.84 \\ \hline \end{array}$$

1519

1520

[illegible]

Project Number
Project Name
Date:
Weather:

NV007
TT 2477/78
04/12/06

Well ID:

Sample ID:

Well Condition:

~~MW11~~
~~USTTT2477.MW11~~

Protective Casing Diameter (inch):

inner Casing Diameter (inch):

Inner Casing Material:

Purge/Sample Method:

PID/FID Reading of Well Headspace (ppm)

Before Cap Removal

After Cap Removal:

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Depth to Top of Screen from TOC (feet):

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Pump Intake Setting from TOC (feet):

DTW After Pump Installed:

Start Purge Date/Time:

End Purge Date/Time:

Total Volume Purged (gal):

Depth to Water After Purge from TOC (feet):

Pre-Sample Depth to Water from TOC (feet)

Start Sample Date/Time:

End Sample Date/Time:

Sampler Name:

33.03

5.39

1417

1516

1514

CF

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Project Number:
Project Name:
Date:
Weather:

NV007
 11/24/77
 4/11/26

Well ID:
Sample ID:
Well Condition:

MW23
USTT 2478-MW23

Protective Casing Diameter (inch):	2"
Inner Casing Diameter (inch):	
Inner Casing Material:	
Purge/Sample Method:	
PID/FID Reading of Well Headspace (ppm)	
Before Cap Removal	
After Cap Removal:	
Depth to Product from TOC (feet):	
Initial Depth to Water from TOC (feet):	16.22
Product Thickness (feet):	
Depth to Top of Screen from TOC (feet):	
Total Depth from TOC (feet):	21.95

Water Column (feet): 5.93
Casing Volume (gal): 0.964
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 12/3
End Purge Date/Time: 1/3/5
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1/3/20
Sampler Name:

[illegible]

[illegible]

Project Number: _____
Project Name: _____
Date: _____
Weather: _____

NV007
112477/78
~~7/11/06~~ 4/12/06

Well Condition:

USTTT2477.MW0B01

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (μ ohms/cm)	Temp ($^{\circ}$ C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1549	200 mL/min	1.3	6.09	0.129	20.72	0.09	9.7	-81.0		
1552			6.10	0.133	20.70	0.01	14.8	-86.0		
1555			6.18	0.132	21.16	0.01	* Could not get tubing down well might be an object down well - used a hauler to get sample			
1558			6.17	0.131	21.14	0.13				
							11.4	-90		
							9.79	-88		

Project Number.
Project Name.
Date:
Weather:

NO07
#7 TT 2477/2478
04/11/06

Well ID:
Sample ID:
Well Condition:

MWOBI
UUTT2477-MWOBI

Protective Casing Diameter (inch):

Inner Casing Diameter (inch):

Inner Casing Material:

Purge/Sample Method:

PID/FID Reading of Well Headspace (ppm)

Before Cap Removal

After Cap Removal:

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Depth to Top of Screen from TOC (feet).

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Pump Intake Setting from TOC (feet):

DTW After Pump Installed:

Start Purge Date/Time:

End Purge Date/Time:

Total Volume Purged (gal):

Depth to Water After Purge from TOC (feet):

Pre-Sample Depth to Water from TOC (feet):

Start Sample Date/Time:

End Sample Date/Time:

Sampler Name:

$$\begin{array}{r} 13.94 \\ 2.25 \end{array}$$

0853
0934

0935
TE/SF

[illegible]

Project Number:
Project Name:
Date:
Weather:

NV007

2477/78

4/11/06

MW55100

USTTT 2478 · MWSS100

Well Condition:

[illegible]

