

SOIL AND GROUNDWATER INVESTIGATION SUMMARY REPORT

BUILDING 645

NCDENR Incident Number: 87556
Marine Corps Base
Camp Lejeune, North Carolina

18 October 2007

Prepared for:



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LIST OF ACRONYMS

2000 Guidelines	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater
2001 Guidelines	Guidelines for Assessment and Corrective Action, North Carolina
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

The Building 645 site is located close to the main gate of Marine Corps Base (MCB) Camp Lejeune on Brewster Boulevard near its intersection with Holcomb Boulevard. The site is located across the street from Russell Elementary School. Former Building 645 served as a pump house for water supply well HP645, which was part of the Holcomb Boulevard water collection system. The 110-gallon aboveground storage tank (AST) was located adjacent to Bldg 645, and it supplied gasoline to the generator that powered the HP645 well pump. Well HP645 was taken off line and rendered inactive in 1985 due to petroleum contamination of the well water. The well was permanently abandoned in 1995, and both Building 645 and the AST were subsequently removed from the site.

Groundwater contamination was suspected when raw water well HP645 displayed petroleum contamination during a routine sampling of the well water. Subsequent site assessments were conducted from 1993 – 1996, which found petroleum contamination in both the shallow and deep aquifers at the site. A Corrective Action Plan (CAP) was completed by Richard Catlin and Associates, Inc. (now known as CATLIN Engineers and Scientists (CATLIN)) in 1996. The CAP recommended installation of an air sparge/soil vapor extraction (AS/SVE) remediation system to address groundwater contamination at the site. The system was installed in 1998 and has been in operation since that time.

Various remediation contractors have maintained and operated the site since 1998 including J.A. Jones Environmental Services, Inc. (J.A. Jones), Shaw Environmental and Infrastructure, Inc. (Shaw), and Engineering and Environment, Inc. (EEI). During this monitoring period, June 2006 – May 2007, Sovereign Consulting Inc. (Sovereign) operated and maintained the remediation system and conducted monitoring well gauging and sampling of site wells. Sovereign gauged and sampled monitoring wells in July 2006, January 2007, and March 2007. Monitoring wells included in the gauging and sampling events varied over the monitoring period due to the modification in the scope of work, which occurred mid-monitoring period (January 2007). Scope modification was based upon the recommendations made in CATLIN's August 2006 Remedial Action Optimization and Revised Corrective Action Plan Addendum report. Horizontal and vertical boundaries of the contaminant plume were identified during the investigation. Recommendations from the addendum included discontinuing the operation of the western portion of the remediation system, monitoring the deep zone monitoring wells quarterly, conducting an annual sampling event of all site monitoring wells, deactivation of water supply wells HP-644 and HP-646, and the reevaluation of site conditions and applicable standards with the appropriate modification of sampling and remedial efforts.

Monitoring wells MW01 through MW23 were gauged in July 2006; wells MW01, MW02, MW12, MW13, MW16, MW17, MW18, MW22 - MW32 were gauged in December 2006; and wells MW01 – MW32 were gauged in March 2007. Monitoring wells MW01, MW02, MW03, MW09, MW12, MW15, MW18, MW21, MW22, and MW23 were sampled in July 2006, and monitoring wells MW01, MW02, MW12, MW13, MW16, MW17, MW18, MW22 – MW30, and MW32 were sampled in January 2007. The March 2007 sampling event included only deep monitoring wells - MW18, MW26, MW27, MW29, MW30, and MW32. Samples were analyzed for volatiles and semi-volatile compounds, as well as lead via EPA Methods 601, Method 602 + Xylenes, Method 625 + 10 largest non-target peaks, and EPA Method 6010A with Standard Prep Method 3030C.

No measurable free product was identified during the 2006-2007 monitoring period. Four volatile compounds and one semi-volatile compound were detected at the site above North Carolina Groundwater Quality Standards

(NCGWQSs). Those contaminants were benzene, diisopropyl ether (DIPE), toluene, total xylenes, and naphthalene. All other detections were below 2L standards. Exceedences were in shallow, intermediate and deep monitoring wells at the site.

Petroleum constituent concentrations, while above NCGWQSs, have decreased over time, indicating that operation of the biosparge/soil vapor extraction system benefited groundwater quality at the site. Sovereign recommended MCB Camp Lejeune to discontinue the AS/SVE system operation beginning in June 2007. This was completed in order to evaluate the site in a static condition, monitor the site groundwater for contaminant concentration level rebound, and make an informed decision on future remedial alternatives. The system was shut down in early June 2007. As scheduled, a groundwater sampling event was then conducted in July 2007.

Groundwater was analyzed in July 2007 for volatile organic compounds, semi-volatile organic compounds, and lead via EPA Methods 601 and 602 + xylenes respectively.

The August 2007 groundwater sampling event was cancelled and a soil investigation was conducted instead to examine boring locations with historical exceedances of the state action levels of 10 mg/kg for TPH-GRO and 40 mg/kg for TPH-DRO. One soil boring location had an exceedance of the state action limits for TPH-GRO: UST-645-SB02.

Since soil contaminant concentrations are present above state action levels within the radius of influence of the inactivated AS/SVE system, MCB Camp Lejeune will be reactivating the system beginning in October 2007. The system will then be contributing to the removal of contaminants at this site.

The monitoring wells that have the highest concentrations of hydrocarbon impact are outside the system layout. The remediation system was shut off in June 2007, approximately one month before the July 2007 sampling event, and no contaminant rebound was indicated in the site groundwater during that period. This conclusion is based on historical data review (Appendix A).

Based on findings of this report, Sovereign recommends MCB Camp Lejeune continue site monitoring and system operation. Monitoring well gauging should be conducted only once per quarter, as no measurable free product has been observed at the site. Groundwater sampling frequency should also be modified to annual, semi-annual, and quarterly sampling per the recommendations made in the 2006 CATLIN optimization addendum. Groundwater samples should be analyzed using EPA Methods 602 plus Xylenes and 625 plus the 10 largest non-target peaks (to include the reporting of 1 and 2-methylnaphthalene). Finally, system operation and modification recommendations should be evaluated in the 2008 Annual Monitoring Report.

Sampling data should be reviewed as laboratory reports are received in order to evaluate remedial strategies that would address the deeper contaminant levels. Findings and recommendations should be summarized and submitted in the next Annual Monitoring Report, which will include an evaluation of potential remedial alternatives to meet the 2L standards, if needed. If free product accumulates or contaminant concentrations rebound, appropriate remedial actions should be immediately implemented.

1.0 TITLE PAGE

Facility I.D.: N/A NCDENR Incident Number: 87556
Site Name: Building 645
Site Location: Marine Corps Base Camp Lejeune, North Carolina
Nearest City/Town: Camp Lejeune County: Onslow

Property Owner: Commanding Officer – MCB Camp Lejeune
I&E/EMD/EQB
PSC Box 20004
Address: MCB Camp Lejeune, NC 28542-0004 Phone: (910) 451-5068

Tank Owner: Same as above
Address: Same as above Phone: Same as above

Property Occupant: Same as above
Address: MCB Camp Lejeune, NC Phone: None

Consultant/Contractor: Sovereign Consulting Inc.
Address: 405 Oakmeads Crescent, Suite 1
Virginia Beach, VA 23462 Phone: (757) 456-5093

Release Information

Date Discovered: 1993
Estimated Quantity of Release: Unknown
Cause of Release: Leaking aboveground storage tank system
Source of Release (Piping/UST): AST
Sizes and contents of UST system(s) from which the release occurred: The former system was a 110-gallon gasoline aboveground storage tank.

I, Kevin P. Wheeler a Professional Geologist for Sovereign Consulting Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



2.0 INTRODUCTION

The purpose of this report is to summarize data from a recent soil investigation and from a recent groundwater gauging and sampling event at the Building 645 remediation site (Figures 1 and 2). This investigation was authorized in response to a letter from NCDENR issued on July 24, 2007. The letter requested further delineation of the contaminant plume around monitoring well MW-26, and some additional soil investigation around the former AST slab location.

The projects scope of work entailed collecting soil samples from four boring locations using a direct push rig for analyses of TPH-DRO and TPH-GRO. In addition, the site's routine scope of work entailed gauging of 32 site monitoring wells (each are preceded by the prefix UST645) - MW01-MW32. Groundwater samples were also collected from each well MW01-MW32. An analysis was completed for EPA Methods 601 and 602 + Xylenes. The results of the investigation are presented in this report.

3.0 SITE HISTORY

Building 645 is located close to the main gate of Camp Lejeune on Brewster Boulevard near its intersection with Holcomb Boulevard. The site is located across the street from Russell Elementary School. Building 645 served as a pump house for water supply well HP645, which was part of the Holcomb Boulevard water collection system. The 110-gallon AST was located adjacent to Bldg 645, and it supplied gasoline to the generator that powered the HP645 well pump. Well HP645 was taken off line and rendered inactive in 1985 due to petroleum contamination of the well water. The well was permanently abandoned in 1995, and both Building 645 and the AST were subsequently removed from the site.

A Three Well Site check of the site was performed in 1993 by R.E. Wright Associates, Inc. Groundwater samples from the three wells and soil samples in the vicinity of the former AST contained evidence of petroleum impact exceeding North Carolina state standards. CATLIN conducted a comprehensive site assessment in 1995, as well as an assessment addendum in 1996 to delineate the extent of petroleum contamination at the site. Soil contaminants were not detected; however, groundwater contamination was identified in both the shallow and deep portions of the groundwater aquifer.

A subsequent CAP was prepared for the site in 1996 that proposed the installation of an air sparge/soil vapor extraction (AS/SVE) system (Figure 2B). The treatment system was constructed by J.A. Jones and began remediation activities in September 1998. The groundwater treatment system has operated continuously since 1998, with the exception of occasional maintenance repairs and groundwater sampling events.

CATLIN conducted an optimization study at the site in 2004 with follow-on assessment work completed in 2006. The 2004 optimization report concluded that the remediation system has been effective in reducing petroleum constituent concentrations in the upper portion of the contaminant plume. The report recommended further refinement of the contaminant plume boundary, however, in both the horizontal and vertical directions. As a result, CATLIN completed the August 2006 Remedial Action Optimization and Revised Corrective Action Plan Addendum. Horizontal and vertical boundaries of the contaminant plume were identified during the investigation. Recommendations from the addendum included discontinuing the operation of the western portion of the remediation system, monitoring the deep zone monitoring wells quarterly, conducting an annual sampling event of all site monitoring wells, deactivation of water supply wells HP-644 and HP-646, and the reevaluation of site conditions and applicable standards with the appropriate modification of sampling and remedial efforts.

Monitoring and maintenance of the groundwater treatment system at the Bldg 645 site has continued from installation in 1998 to the present.

4.0 SOIL INVESTIGATION

Sovereign was present at the site on August 20, 2007 to conduct a soil investigation using a direct push drill rig. Four soil borings were advanced in the locations depicted on Figure 3. These locations were selected based on the suspected presence of soil contamination. Sovereign advanced four soil borings on each side of the slab that served as the foundation of the former AST to check the present status of soil contamination. Soil samples were collected from each boring location and analyzed for TPH-DRO and TPH-GRO. Samples were collected using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS-Paradigm Analytical Laboratories Inc. (SGS-Paradigm) in Wilmington, North Carolina (NC Certification Number 481). Laboratory reports and chain of custody documentation are included in Appendix B. Sample analyses are summarized in Table 2, and all action limit exceedances are highlighted and shaded. There was an exceedance in the state action limit of 10 mg/kg (TPH-GRO) in one of the soil borings: UST645-SB02. This soil boring was located adjacent and to the south of the concrete slab where the former AST was installed. Boring logs are included in Appendix A.

5.0 GAUGING AND SAMPLING RESULTS

All of the site monitoring wells at the Building 645 site were gauged and sampled in July of 2007. Activities were conducted in accordance with NCDENR guidance.

5.1 WELL GAUGING

Monitoring wells MW01 through MW32 were gauged in July 2007. Gauging data is summarized in Table 1. Wells were gauged using an interface probe to measure the depth to water and depth to product (if present). No measurable free product was detected at any site well designated for gauging during July 2007.

Top of casing elevations and DTW values were used to obtain groundwater elevations at the site, as shown in Figure 4. From the shallow groundwater well maps, overall groundwater flow is into the site from the east and to the southwest, which is generally consistent with previous site data.

5.2 GROUNDWATER SAMPLING

A comprehensive groundwater sampling event was conducted in July and samples were collected from site monitoring wells MW01-MW32. Prior to sampling, wells were purged until water quality parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized. Sampling was conducted using a peristaltic pump with connected polyethylene discharge tubing and a low flow purging and sampling procedure. If a well purged to dryness, the well was allowed to recharge before sampling. Samples were collected using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS-Paradigm Analytical Laboratories Inc. (SGS-Paradigm) in Wilmington, North Carolina (NC Certification Number 481).

Analysis of the samples included EPA Methods 601 and 602 + Xylenes. Laboratory reports and chain of custody documentation are included in Appendix B. EPA Method 601 results are summarized in Table 3 and Figure 5. None of the site monitoring well samples displayed an exceedance of 2L NCGWQs for the Method 601 analytes.

Table 4 and Figure 6 summarize the lab results for EPA Method 602. There were 2L NCGWQs exceedances in the following wells for benzene during the July 2007 sampling event for Method 602:

MW18 and MW26 through MW29. In addition there was a 2L exceedance for Toluene in monitoring well MW26.

6.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and concluded that the receptor survey previously completed by CATLIN RAO & RCAP dated August 26, 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.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on historical data and the fieldwork and laboratory analytical data gathered during the 2006-2007 monitoring period, the following conclusions are presented:

1. Based on soil contaminant concentrations, MCB Camp Lejeune will be reactivating the AS/SVE system in October 2007 to the remove contaminants at this site.
2. Shallow surficial groundwater aquifer flow is generally to the southwest. Groundwater flow in deeper portions of the aquifer varied throughout the monitoring period.
3. No measurable free product was observed at any site well during the monitoring period.

VOCs and semi-VOCs are present in shallow, intermediate, and deep zone groundwater monitoring wells at concentrations above NCGWQSs. The monitoring wells that have the highest concentrations of hydrocarbon impact are outside the system layout. The remediation system was shut off in June 2007, approximately one month before the July 2007 sampling event, and no contaminant rebound was indicated in the site groundwater during that period. This conclusion is based on historical data review (Appendix A).

Based on findings of this report, Sovereign recommends MCB Camp Lejeune continue site monitoring and system operation. Monitoring well gauging should be conducted only once per quarter, as no measurable free product has been observed at the site. Groundwater sampling frequency should also be modified to annual, semi-annual, and quarterly sampling per the recommendations made in the 2006 CATLIN optimization addendum. Groundwater samples should be analyzed using EPA Methods 602 plus Xylenes and 625 plus the 10 largest non-target peaks (to include the reporting of 1 and 2-methylnaphthalene). Finally, system operation and modification recommendations should be evaluated in the 2008 Annual Monitoring Report.

8.0 REFERENCES

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

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Comprehensive Site Assessment, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, April 28, 1995.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Addendum Site Assessment, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, June 12, 1996.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Corrective Action Plan, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, September 25, 1996.

CATLIN Engineers and Scientists, *Remedial Action Optimization and Revised Corrective Action Plan, Building 645, Marine Corps Base Camp, Lejeune, North Carolina*, August 26, 2004.

CATLIN Engineers and Scientists, *Remedial Action Optimization and Revised Corrective Action Plan Addendum, Building 645, Marine Corps Base Camp, Lejeune, North Carolina*, 2006.

Engineering and Environment, Inc., *Annual Groundwater Monitoring Report 2003-2005, Building 645 Site, Camp Lejeune, North Carolina*, January 17, 2006.

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., *Three Well Site Check, Marine Corps Base, Camp Lejeune, North Carolina, Building HP-645 (AST)*, March 1994.

Sovereign Consulting Inc., *FINAL Annual Groundwater Monitoring Report 2005-2006, Building 645, MCB Camp Lejeune, North Carolina*, June 2007.

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA
 Date: July 17, 2007
 Incident Number and Name: 87556 - Building 645

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		7/17/2007	No Product
645-MW01	28.56	14.49	"
645-MW02	29.53	14.49	"
645-MW03	29.79	14.49	"
645-MW04	25.33	13.37	"
645-MW05	30.07	14.72	"
645-MW06	31.27	15.02	"
645-MW07	27.82	12.44	"
645-MW08	29.60	14.32	"
645-MW09	29.79	12.72	"
645-MW10	27.87	12.77	"
645-MW11	29.73	12.92	"
645-MW12	29.40	13.19	"
645-MW13	29.82	13.06	"
645-MW14	28.11	12.78	"
645-MW15	27.05	12.64	"
645-MW16	28.27	12.57	"
645-MW17	27.28	12.66	"
645-MW18	31.46	15.48	"
645-MW19	28.35	12.84	"
645-MW20	28.34	12.80	"
645-MW21	23.09	12.84	"
645-MW22	28.52	12.96	"
645-MW23	28.58	14.34	"
645-MW24	25.52	12.27	"
645-MW25	24.60	12.25	"
645-MW26	29.31	14.82	"
645-MW27	29.28	11.96	"
645-MW28	26.80	11.77	"
645-MW29	26.06	12.06	"
645-MW30	29.14	12.14	"
645-MW31	28.24	11.64	"
645-MW32	29.27	12.37	"

TABLE 2
SUMMARY OF SOIL SAMPLING RESULTS
 Date: August 20, 2007
 Incident Number and Name: 87556 - Building 645
 Analytical Method: EPA Method 3550 and 5030

Comment	Sample ID	Contaminant of Concern →		TPH-DRO	TPH-GRO
		Date Collected (mm/dd/yy)	Sample Depth (ft BGS)		
UST645	SB01	8/20/2007	10-11	BQL	BQL
UST645	SB02	8/20/2007	11-12	94.4	BQL
UST645	SB03	8/20/2007	11-12	BQL	BQL
UST645	SB04	8/20/2007	11-12	BQL	BQL
NCDENR Action Level (mg/kg)				40	10

- Results reported in mg/kg
- mg/kg =milligrams per kilogram
- **BOLDED** = detected concentration
- **BOLDED** and **shaded** = detected concentration above NCDENR action level.
- ft. BGS = feet below ground surface

TABLE 3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2006-2007

Incident Number and Name: 87556 - Building 645

Analytical Method: EPA Method 601

Contaminant of Concern			Chloroform	1,2-Dichloroethane	Other Target Analytes
Well ID	Sample ID	Date Collected			
UST645-MW01	UST645-MW01	7/18/2007	BQL	BQL	BQL
UST645-MW02	UST645-MW02	7/18/2007	BQL	BQL	BQL
UST645-MW03	UST645-MW03	7/18/2007	BQL	BQL	BQL
UST645-MW04	UST645-MW04	7/18/2007	BQL	BQL	BQL
UST645-MW05	UST645-MW05	7/19/2007	BQL	BQL	BQL
UST645-MW06	UST645-MW06	7/19/2007	BQL	BQL	BQL
UST645-MW07	UST645-MW07	7/19/2007	BQL	BQL	BQL
UST645-MW08	UST645-MW08	7/17/2007	BQL	BQL	BQL
UST645-MW09	UST645-MW09	7/18/2007	BQL	BQL	BQL
UST645-MW10	UST645-MW10	7/18/2007	BQL	BQL	BQL
UST645-MW11	UST645-MW11	7/17/2007	BQL	BQL	BQL
UST645-MW12	UST645-MW12	7/17/2007	BQL	BQL	BQL
UST645-MW13	UST645-MW13	7/17/2007	BQL	BQL	BQL
UST645-MW14	UST645-MW14	7/19/2007	BQL	BQL	BQL
UST645-MW15	UST645-MW15	7/17/2007	BQL	BQL	BQL
UST645-MW16	UST645-MW16	7/19/2007	BQL	BQL	BQL
UST645-MW17	UST645-MW17	7/18/2007	BQL	BQL	BQL
UST645-MW18	UST645-MW18	7/19/2007	BQL	BQL	BQL
UST645-MW19	UST645-MW19	7/18/2007	BQL	BQL	BQL
UST645-MW20	UST645-MW20	7/18/2007	BQL	BQL	BQL
UST645-MW21	UST645-MW21	7/18/2007	BQL	BQL	BQL
UST645-MW22	UST645-MW22	7/17/2007	BQL	BQL	BQL
UST645-MW23	UST645-MW23	7/18/2007	BQL	BQL	BQL
UST645-MW24	UST645-MW24	7/18/2007	BQL	BQL	BQL
UST645-MW25	UST645-MW25	7/18/2007	BQL	BQL	BQL
UST645-MW26	UST645-MW26	7/19/2007	BQL	BQL	BQL
UST645-MW27	UST645-MW27	7/19/2007	BQL	0.159	BQL
UST645-MW28	UST645-MW28	7/17/2007	BQL	BQL	BQL
UST645-MW29	UST645-MW29	7/19/2007	BQL	BQL	BQL
UST645-MW30	UST645-MW30	7/19/2007	BQL	BQL	BQL
UST645-MW31	UST645-MW31	7/19/2007	0.964	BQL	BQL
UST645-MW32	UST645-MW32	7/19/2007	BQL	BQL	BQL
Duplicate	Duplicate	7/18/2007	BQL	BQL	BQL
2L Standard (µg/l)			70	0.38	Varies

- Duplicate sample MW23 in July 2007.
- All results reported in µg/l
- µg/L =micrograms per liter
- BQL = Below Quantitation Limits
- **BOLD** = Detected concentration.
- **BOLD** and shaded = detected concentration above applicable standard

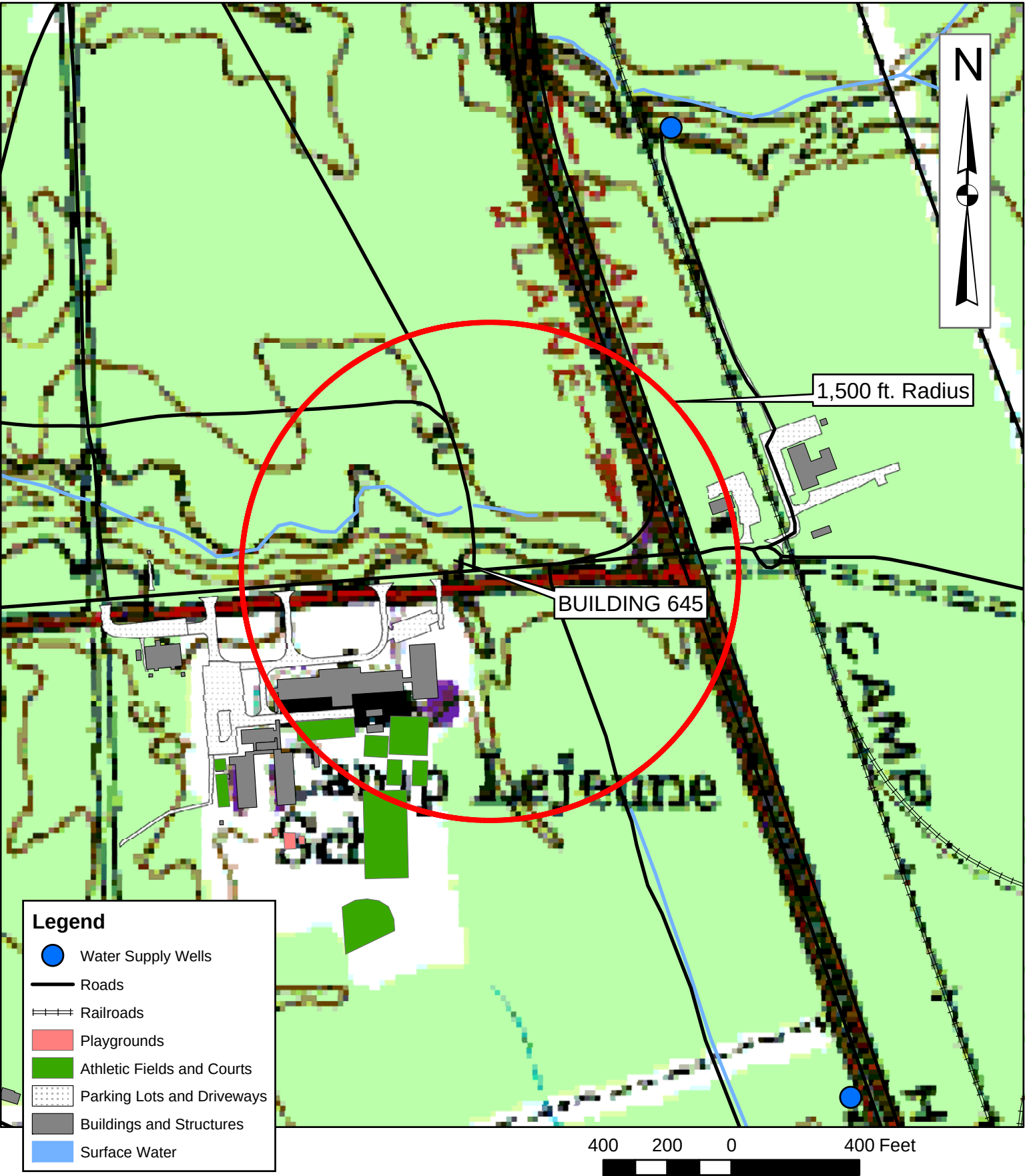
TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 July 2007
 Incident Number and Name: 87556 - Building 645
Analytical Method: EPA Method 602

Contaminant of Concern			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total Xylenes
Well ID	Sample ID	Date Collected						
UST645-MW01	UST645-MW01	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW02	UST645-MW02	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW03	UST645-MW03	7/18/2007	BQL	BQL	11.0	BQL	BQL	BQL
UST645-MW04	UST645-MW04	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW05	UST645-MW05	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW06	UST645-MW06	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW07	UST645-MW07	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW08	UST645-MW08	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	UST645-MW09	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW10	UST645-MW10	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW11	UST645-MW11	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW12	UST645-MW12	7/17/2007	BQL	BQL	146	BQL	BQL	361
UST645-MW13	UST645-MW13	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW14	UST645-MW14	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW15	UST645-MW15	7/17/2007	BQL	BQL	BQL	2.34	BQL	BQL
UST645-MW16	UST645-MW16	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW17	UST645-MW17	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW18	UST645-MW18	7/19/2007	7.20	BQL	72.8	BQL	BQL	BQL
UST645-MW19	UST645-MW19	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW20	UST645-MW20	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW21	UST645-MW21	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW22	UST645-MW22	7/17/2007	BQL	BQL	BQL	5.07	BQL	BQL
UST645-MW23	UST645-MW23	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW24	UST645-MW24	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW25	UST645-MW25	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW26	UST645-MW26	7/19/2007	1,180	BQL	50.8	BQL	3,900	BQL
UST645-MW27	UST645-MW27	7/19/2007	25.3	BQL	BQL	52.2	BQL	BQL
UST645-MW28	UST645-MW28	7/17/2007	4.33	BQL	BQL	BQL	BQL	BQL
UST645-MW29	UST645-MW29	7/19/2007	22.4	BQL	BQL	BQL	BQL	BQL
UST645-MW30	UST645-MW30	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW31	UST645-MW31	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW32	UST645-MW32	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
Duplicate	Duplicate	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
2L Standard (µg/l)			1	70	550	200	1,000	530

- Duplicate sample MW23 in July 2007.

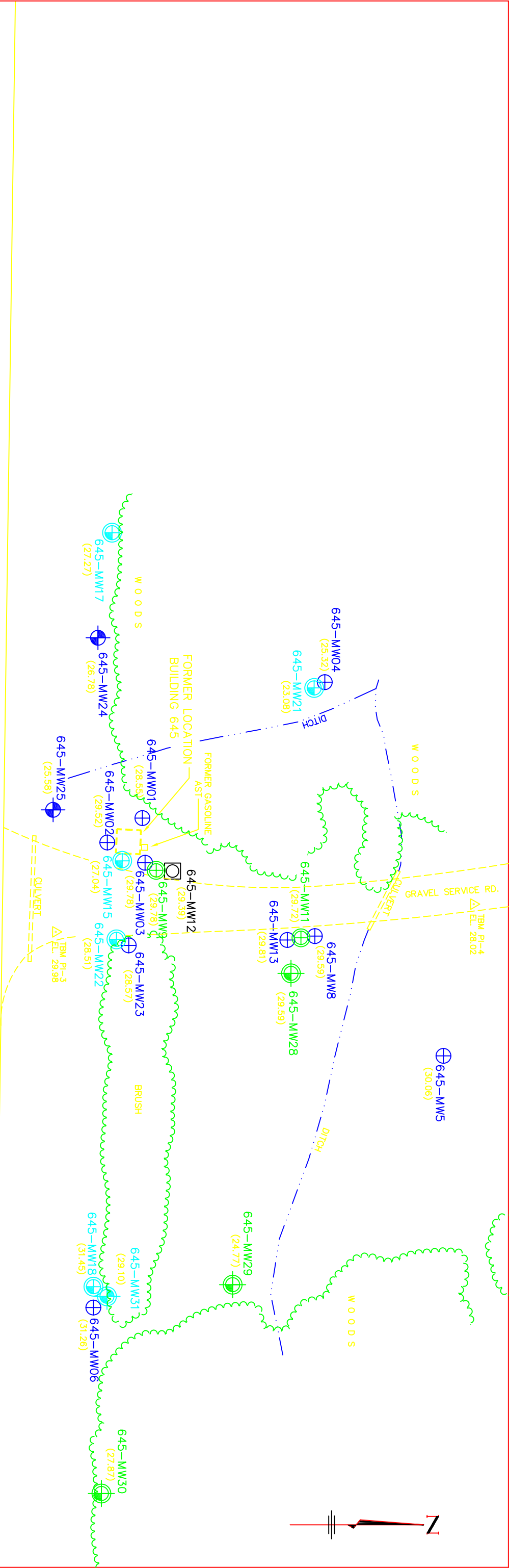
- All results reported in µg/l
- µg/L =micrograms per liter
- BQL = Below Quantitation Limits
- **BOLD** = Detected concentration.
- **BOLD** and shaded = detected concentration above applicable standard

FIGURES



Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDING 645 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE GENERAL VICINITY TOPOGRAPHIC SITE MAP			FIGURE 1
	JOB NO. 206-063	DATE MAY 2007	SCALE AS SHOWN	DRAWN BY KAWS	CHECKED BY JAC	



LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING
		SHALLOW ZONE WELL (DEPTH < 40')
		INTERMEDIATE ZONE WELL (DEPTH > 40' - < 60')
		DEEP ZONE WELL (DEPTH > 60' - < 90')
		DEEP ZONE WELL (DEPTH > 90')
		PUMPING WELL
		TOP OF CASING ELEVATION IN FEET MSL

ASPHALT DRIVE

ASPHALT PARKING

BUILDING 40

ASPHALT LOT

NOTES:

- ALL WELL IDENTIFICATIONS PREFIXED WITH "UST"

SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

PROJECT

BUILDING 645
SUMMARY REPORT
MARINE CORPS BASE
CAMP LEJUNE, N.C.

TITLE

SITE MAP WITH CURRENT
MONITORING WELL NETWORK

JOB NO.

NV018

DATE

SEPT 2007

SCALE

1"=50'

DRAWN BY:

CRM

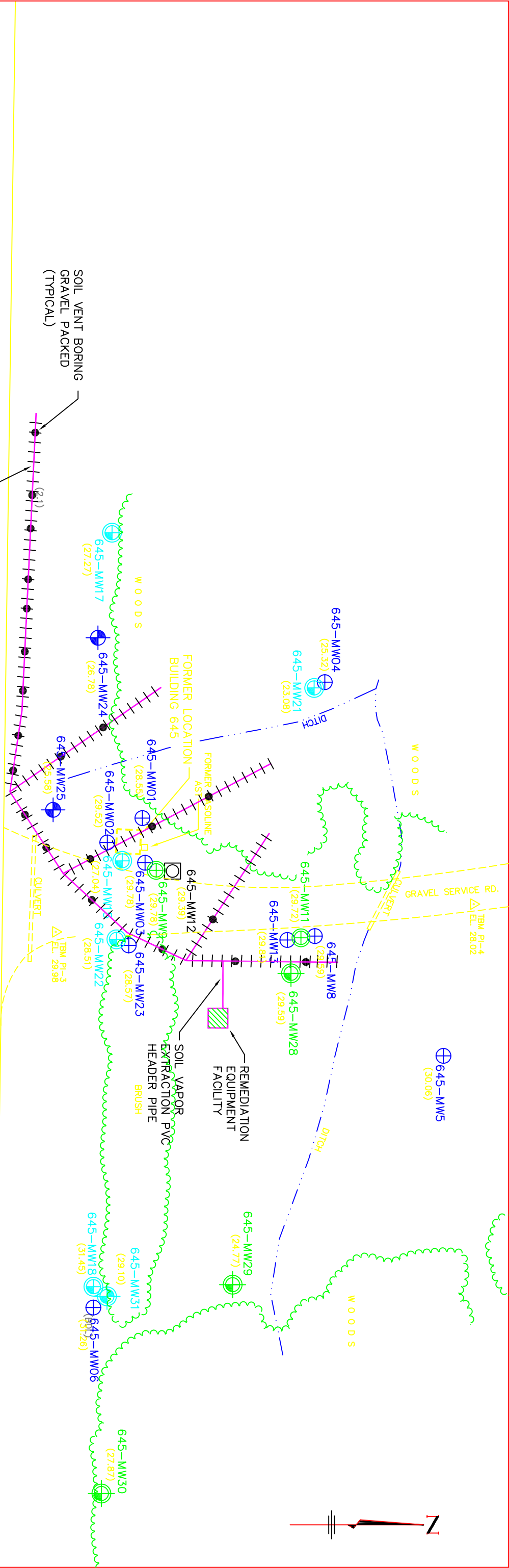
CHECKED BY:

CRM

FIGURE

2

NV018 645



SOIL VENT BORING
GRAVEL PACKED
(TYPICAL)

SOIL VAPOR EXTRACTION
SLOTTED PVC LINE
(TYPICAL)

- LEGEND
- | EXISTING | NEW | DESCRIPTION |
|----------|-----|---|
| | | BUILDING |
| | | SHALLOW ZONE WELL
(DEPTH <40') |
| | | INTERMEDIATE ZONE WELL
(DEPTH >40' - <60') |
| | | DEEP ZONE WELL
(DEPTH >60' - <90') |
| | | DEEP ZONE WELL
(DEPTH >90') |
| | | PUMPING WELL |
| | | TOP OF CASING ELEVATION
IN FEET MSL |

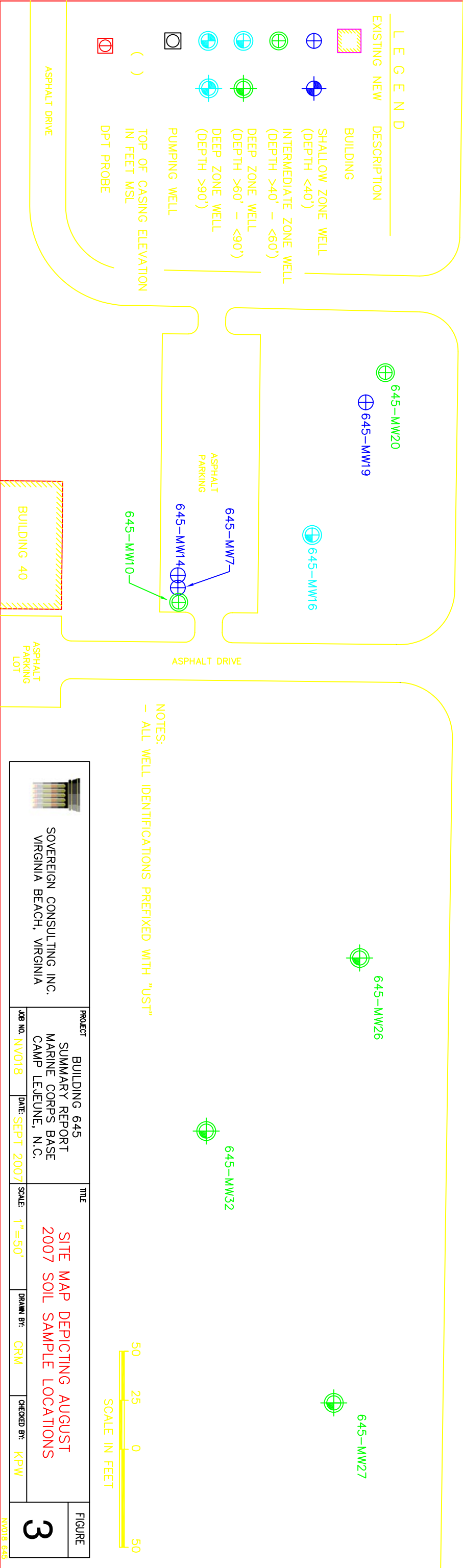
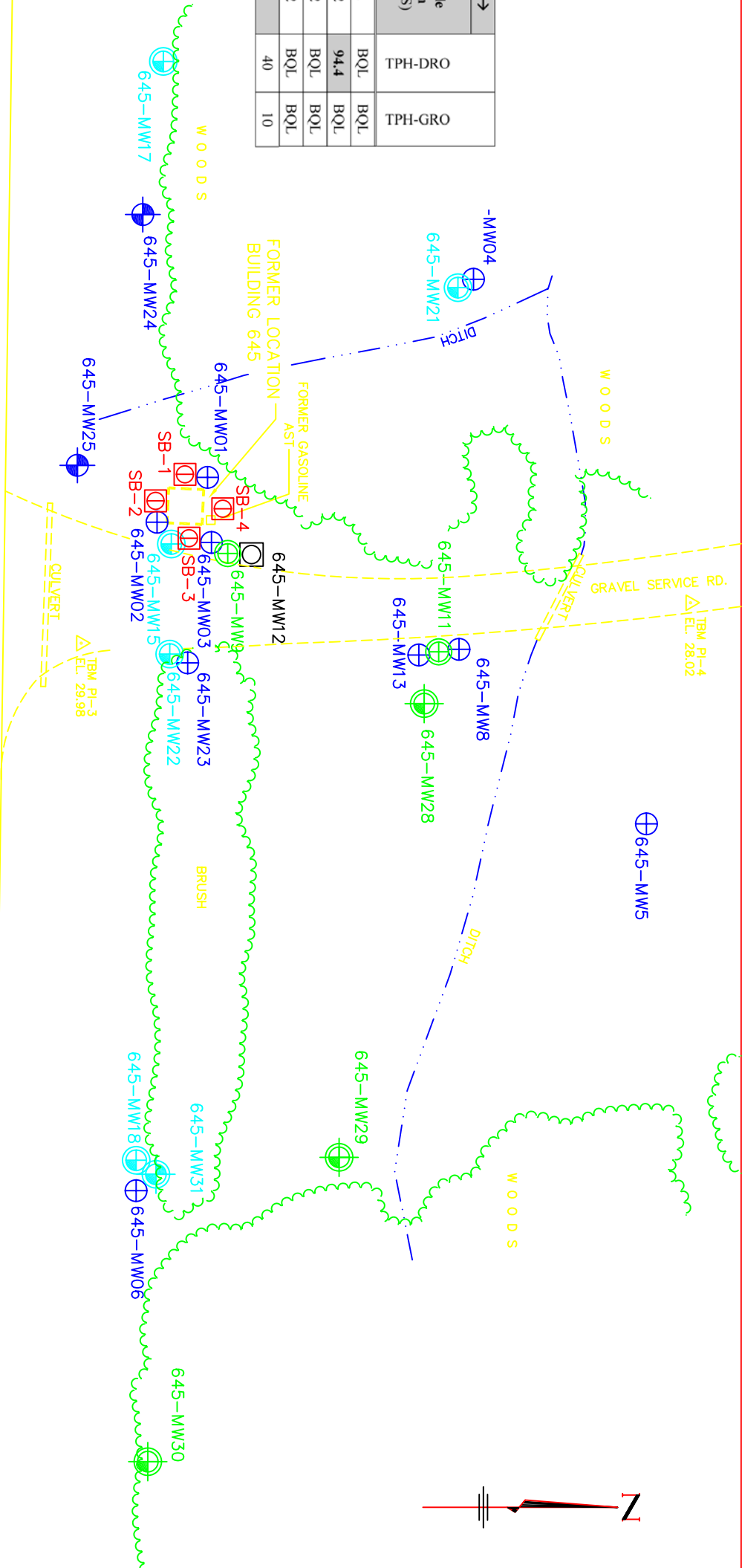
NOTES:
- ALL WELL IDENTIFICATIONS PREFIXED WITH "UST"



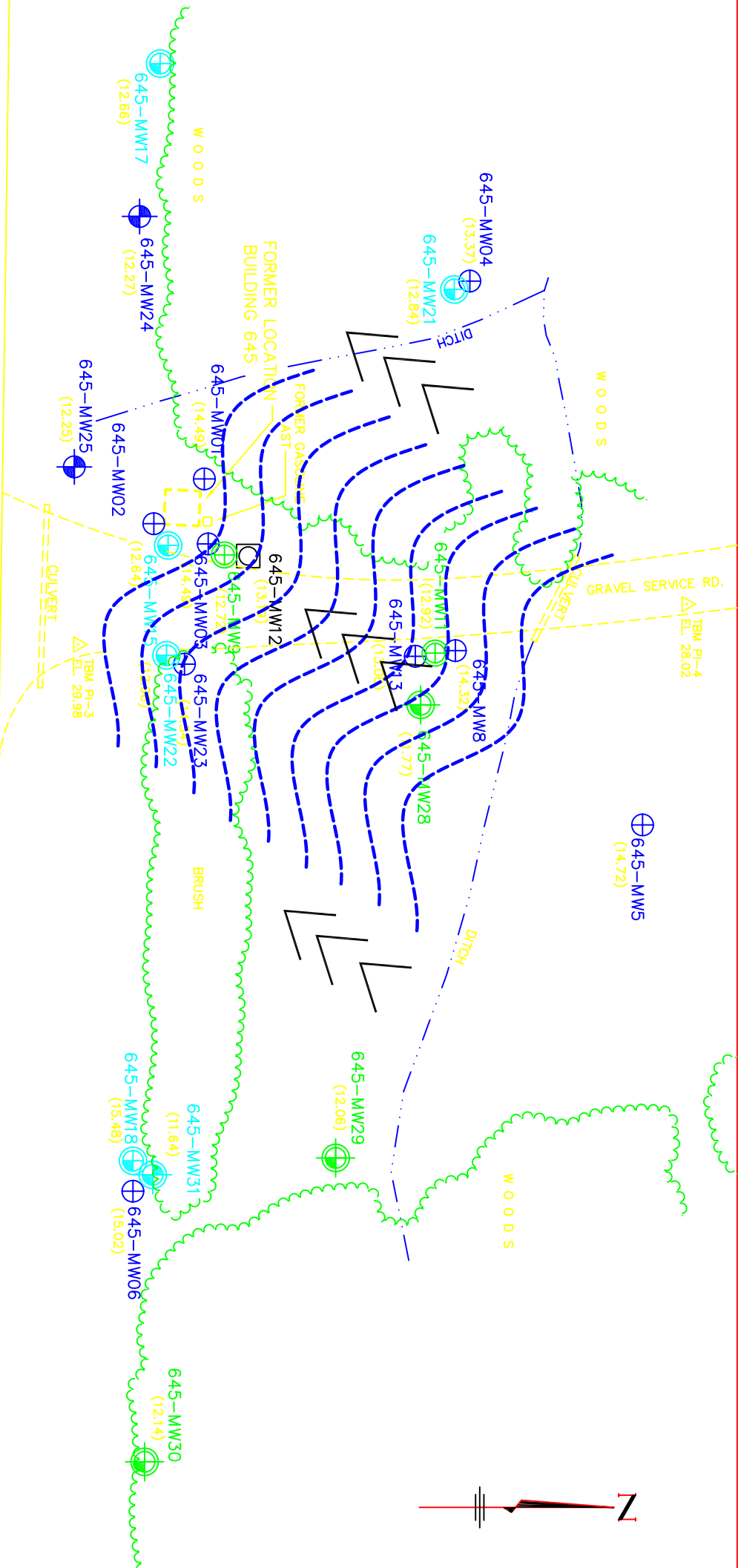
						FIGURE			
ASPHALT DRIVE			ASPHALT PARKING LOT			2B			
						NV018 645			
PROJECT BUILDING 645 SUMMARY REPORT MARINE CORPS BASE CAMP LEJEUNE, N.C.						TITLE SITE MAP WITH CURRENT REMEDIATION SYSTEM LAYOUT			
JOB NO. NV018		DATE: SEPT 2007		SCALE: 1"=50'		DRAWN BY: CRM		CHECKED BY: KPW	

SUMMARY OF SOIL SAMPLING RESULTS
Date: August 20, 2007
Incident Number and Name: 87556 - Building 645
Analytical Method: EPA Method 3550 and 5030

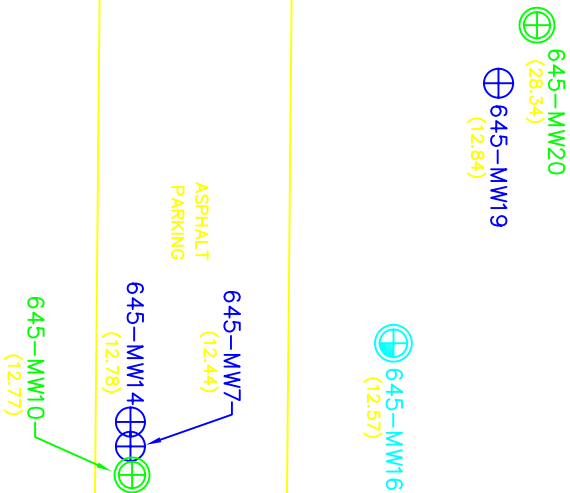
Comment	Sample ID	Contaminant of Concern		TPH-DRO	TPH-GRO
		Date Collected (mm/dd/yy)	Sample Depth (ft BGS)		
UST645	SB01	8/20/2007	10-11	BQL	BQL
UST645	SB02	8/20/2007	11-12	94.4	BQL
UST645	SB03	8/20/2007	11-12	BQL	BQL
UST645	SB04	8/20/2007	11-12	BQL	BQL
NCDENR Action Level (mg/kg)				40	10



Monitoring Well	Top of Casing Elevation (feet)	Groundwater 7/17/2007	Elevation (feet) No Product
645-MW01	28.56	14.49	"
645-MW02	29.53	14.49	"
645-MW03	29.79	14.49	"
645-MW04	25.33	13.37	"
645-MW05	30.07	14.72	"
645-MW06	31.27	15.02	"
645-MW07	27.82	12.44	"
645-MW08	29.60	14.32	"
645-MW09	29.79	12.72	"
645-MW10	27.87	12.77	"
645-MW11	29.73	12.92	"
645-MW12	29.40	13.19	"
645-MW13	29.82	13.06	"
645-MW14	28.11	12.78	"
645-MW15	27.05	12.64	"
645-MW16	28.27	12.57	"
645-MW17	27.28	12.66	"
645-MW18	31.46	15.48	"
645-MW19	28.35	12.84	"
645-MW20	28.34	12.80	"
645-MW21	23.09	12.84	"
645-MW22	28.52	12.96	"
645-MW23	28.58	14.34	"
645-MW24	25.52	12.27	"
645-MW25	24.60	12.25	"
645-MW26	29.31	14.82	"
645-MW27	29.28	11.96	"
645-MW28	26.80	11.77	"
645-MW29	26.06	12.06	"
645-MW30	29.14	12.14	"
645-MW31	28.24	11.64	"
645-MW32	29.27	12.37	"



LEGEND		
EXISTING	NEW	DESCRIPTION
		BUILDING
		SHALLOW ZONE WELL (DEPTH <40')
		INTERMEDIATE ZONE WELL (DEPTH >40' - <60')
		DEEP ZONE WELL (DEPTH >60' - <90')
		DEEP ZONE WELL (DEPTH >90')
		PUMPING WELL
		TOP OF CASING ELEVATION IN FEET MSL

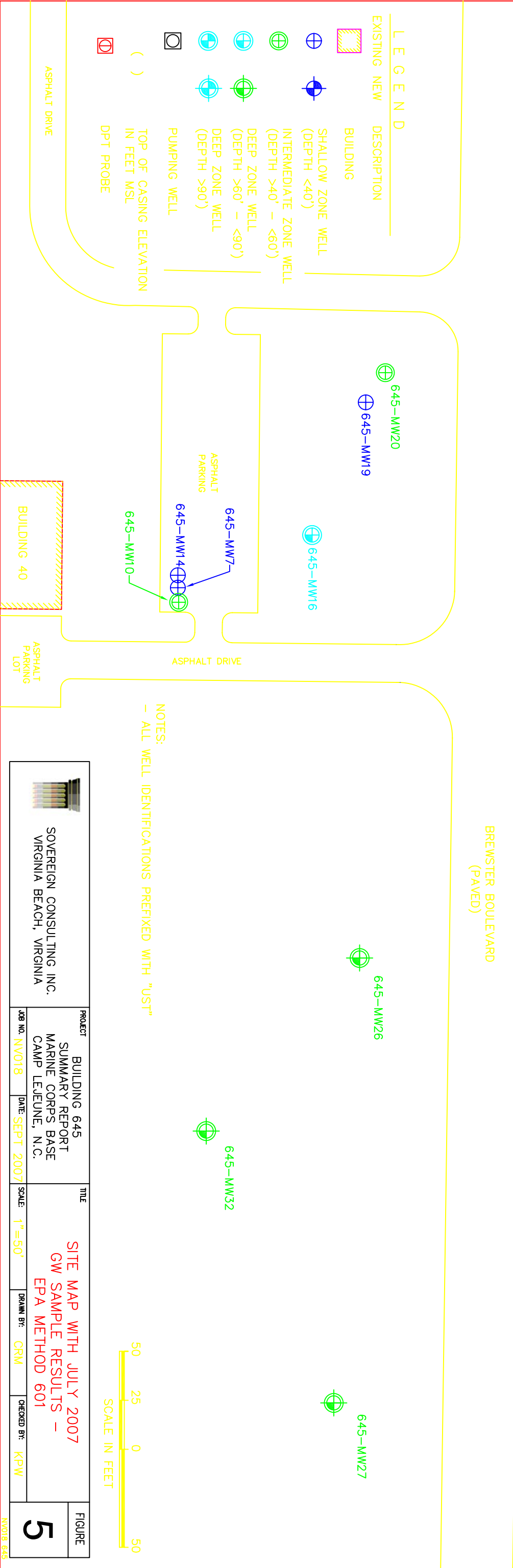
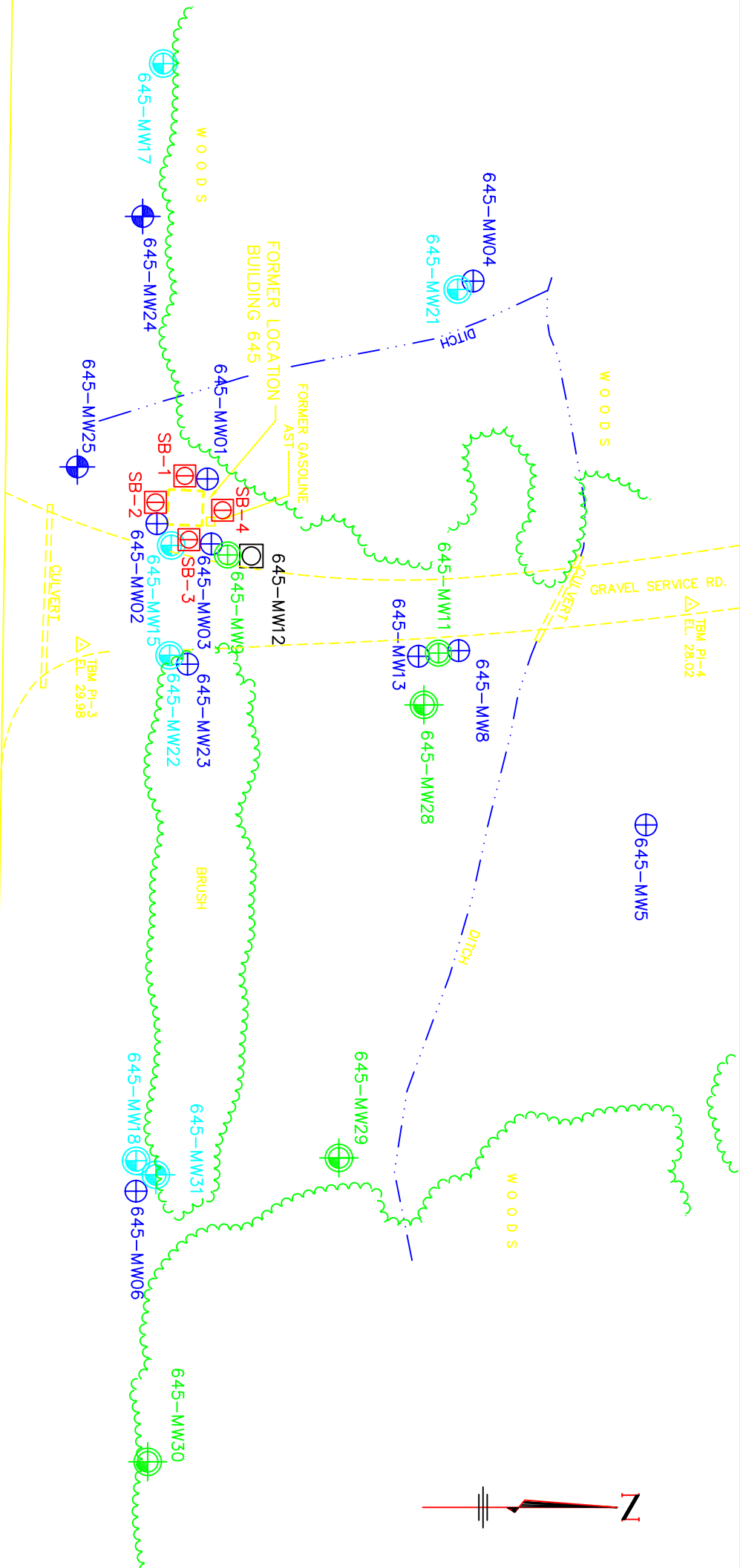


NOTES:
- ALL WELL IDENTIFICATIONS PREFIXED WITH "UST"

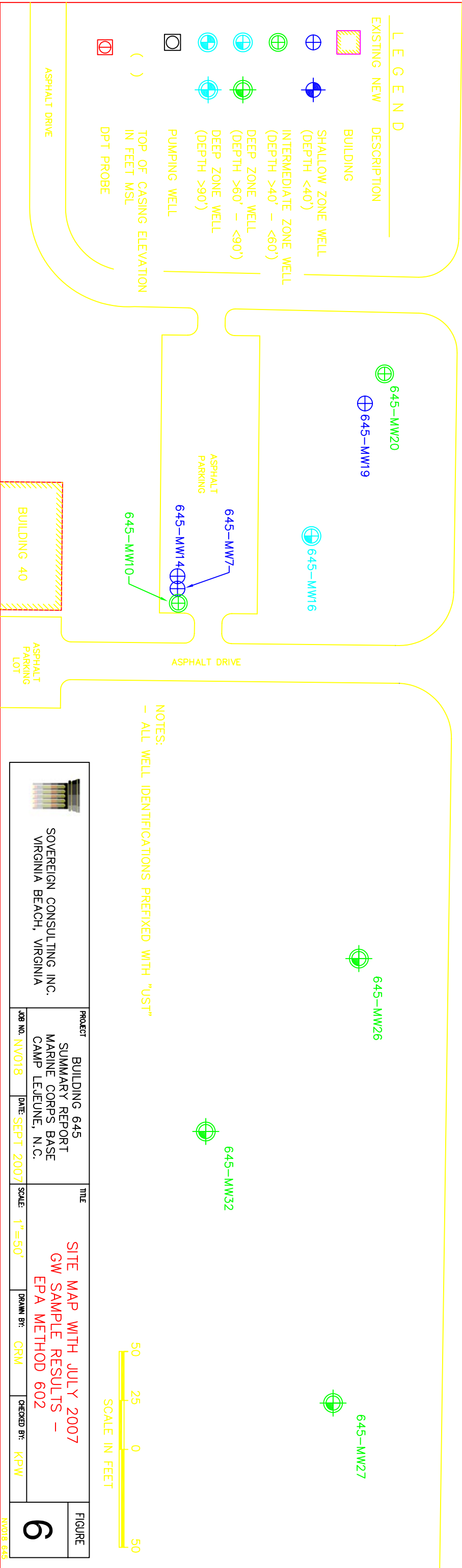
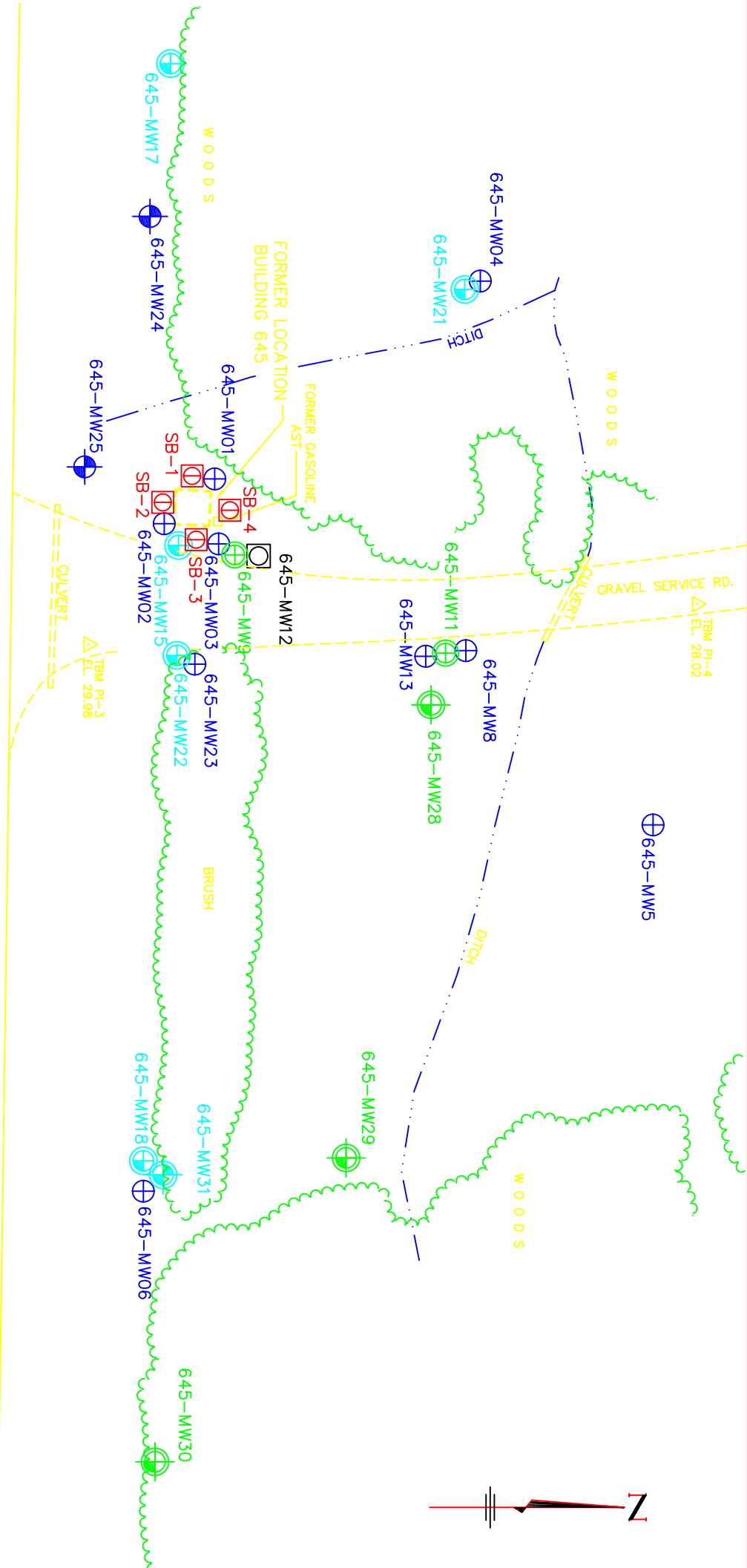


PROJECT	TITLE	FIGURE
BUILDING 645 SUMMARY REPORT MARINE CORPS BASE CAMP LEJUNE, N.C.	SHALLOW GROUNDWATER ELEVATION CONTOUR MAP - JULY 2007	4
SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	JOB NO. NV018 DATE: SEPT 2007 SCALE: 1"=50' DRAWN BY: CRM CHECKED BY: KPW	

Analytical Method: EPA Method 601				Contaminant of Concern		
Well ID	Sample ID	Date Collected	Chloroform	1,2-Dichloroethane	Other Target Analytes	
UST645-MW01	UST645-MW01	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW02	UST645-MW02	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW03	UST645-MW03	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW04	UST645-MW04	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW05	UST645-MW05	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW06	UST645-MW06	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW07	UST645-MW07	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW08	UST645-MW08	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW09	UST645-MW09	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW10	UST645-MW10	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW11	UST645-MW11	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW12	UST645-MW12	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW13	UST645-MW13	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW14	UST645-MW14	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW15	UST645-MW15	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW16	UST645-MW16	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW17	UST645-MW17	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW18	UST645-MW18	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW19	UST645-MW19	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW20	UST645-MW20	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW21	UST645-MW21	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW22	UST645-MW22	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW23	UST645-MW23	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW24	UST645-MW24	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW25	UST645-MW25	7/18/2007	BQL	BQL	BQL	BQL
UST645-MW26	UST645-MW26	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW27	UST645-MW27	7/19/2007	BQL	BQL	0.159	BQL
UST645-MW28	UST645-MW28	7/17/2007	BQL	BQL	BQL	BQL
UST645-MW29	UST645-MW29	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW30	UST645-MW30	7/19/2007	BQL	BQL	BQL	BQL
UST645-MW31	UST645-MW31	7/19/2007	0.264	BQL	BQL	BQL
UST645-MW32	UST645-MW32	7/19/2007	BQL	BQL	BQL	BQL
Duplicate	Duplicate	7/18/2007	70	0.38	BQL	Varies
21. Standard (µg/l)						



Analytical Method: EPA Method 602				Contaminant of Concern					
Well ID	Sample ID	Date Collected	Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total Xylenes	
UST645-MW01	UST645-MW01	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW02	UST645-MW02	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW03	UST645-MW03	7/18/2007	BQL	BQL	BQL	11.0	BQL	BQL	
UST645-MW04	UST645-MW04	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW05	UST645-MW05	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW06	UST645-MW06	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW07	UST645-MW07	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW08	UST645-MW08	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW09	UST645-MW09	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW10	UST645-MW10	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW11	UST645-MW11	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW12	UST645-MW12	7/17/2007	BQL	BQL	1.46	BQL	BQL	3.61	
UST645-MW13	UST645-MW13	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW14	UST645-MW14	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW15	UST645-MW15	7/17/2007	BQL	BQL	BQL	2.34	BQL	BQL	
UST645-MW16	UST645-MW16	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW17	UST645-MW17	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW18	UST645-MW18	7/19/2007	BQL	BQL	72.8	BQL	BQL	BQL	
UST645-MW19	UST645-MW19	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW20	UST645-MW20	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW21	UST645-MW21	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW22	UST645-MW22	7/17/2007	BQL	BQL	BQL	5.07	BQL	BQL	
UST645-MW23	UST645-MW23	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW24	UST645-MW24	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW25	UST645-MW25	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW26	UST645-MW26	7/19/2007	1.180	BQL	50.8	BQL	3.900	BQL	
UST645-MW27	UST645-MW27	7/19/2007	25.3	BQL	BQL	52.2	BQL	BQL	
UST645-MW28	UST645-MW28	7/17/2007	4.33	BQL	BQL	BQL	BQL	BQL	
UST645-MW29	UST645-MW29	7/19/2007	22.4	BQL	BQL	BQL	BQL	BQL	
UST645-MW30	UST645-MW30	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW31	UST645-MW31	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
UST645-MW32	UST645-MW32	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	
Duplicate	Duplicate	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	
21. Standard (µg/l)			1	70	550	200	1,000	530	



SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

PROJECT: BUILDING 645
SUMMARY REPORT
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

JOB NO. NV018 | DATE: SEPT 2007 | SCALE: 1"=50' | DRAWN BY: CRM | CHECKED BY: KPW

FIGURE 6

APPENDIX A

HISTORICAL GROUNDWATER QUALITY DATA
SOIL BORING LOGS

Historical Groundwater Data Table
Analytical Data for March 2007 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-18	MW-26	MW-27	MW-29	MW-30	MW-32
VOCs by EPA Method 601/602 (µg/L)								
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Benzene	1	5,000	3.97	2,060.0	<1.00	36.6	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	0.493J	80.4
Ethylbenzene	550	84,500	16.8	325J	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	257,500	0.520 J	13,900.0	<1.00	0.600J	<1.00	0.634J
Xylenes (total)	530	87,500	<2.00	436J	<2.00	<2.00	<2.00	<2.00
SVOCs by EPA Method 625 (µg/L)								
Bis(2-ethylhexyl)phthalate	2.5	2,500	NA	NA	NA	NA	NA	NA
Flourene	280	950	NA	NA	NA	NA	NA	NA
Naphthalene	21	15,500	NA	NA	NA	NA	NA	NA
Phenol	300	300,000	NA	NA	NA	NA	NA	NA
TICs (total)			NA	NA	NA	NA	NA	NA
All other Compounds	Varies	Varies	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (ug/L)								
Lead (EPA 6010B / SM 3030C) (ug/L)	15	15,000	NA	NA	NA	NA	NA	NA

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicted location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

**Historical Groundwater Data Table
Analytical Data for January 2007 Sampling Event
Building 645**

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-12	MW-13	MW-16	MW-17	MW-18	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
VOCs by EPA Method 601/602 (µg/L)																				
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Benzene	1	5,000	1.29 J	<1.00	<1.00	<1.00	<1.00	<1.00	14.8	<1.00	<1.00	<1.00	<1.00	3,260	12.9	2.92	21.3	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.386	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	45.0	<1.00	379.00	0.396 J	<1.00	<1.00	86.7	<1.00	0.241 J	<1.00	<1.00	330	0.435	<1.00	0.873	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	56.6	<5.0	57.1	1.88	<5.0	<5.0	<5.0	7.36	<5.0	<5.0	<5.0	BQL	39.1	<5.0	0.828	<5.0	<5.0	<5.0
Toluene	1,000	257,500	92.7	<1.00	57.1	1.88	<1.00	<2.00	3.94 J	0.187 J	0.187 J	<2.00	<2.00	7160	2.99	<2.00	3.80	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	92.7	<1.00	1,572.0	0.629 J	<2.00	<2.00	6.76 J	<2.00	<2.00	<2.00	<2.00	436J	0.560J	1.32	1.15J	<2.00	<2.00	<2.00
SVOCs by EPA Method 625 (µg/L)																				
Bis(2-ethylhexyl)phthalate	2.5	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flourene	280	950	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	15,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	300	300,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TICs (total)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
All other Compounds	Varies	Varies	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (ug/L)																				
Lead (EPA 6010B / SM 3030C) (ug/L)	15	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for July 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	MW-21	MW-22	MW-23	Duplicate
VOCs by EPA Method 601/602 (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<20.0	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500
Benzene	1	5,000	1.98	<1.00	0.668	<1.00	<10.0	<1.00	18.1	<1.00	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	25.1	0.600	24.7	<1.00	69.8	<1.00	96.8	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<20.0	0.829	<2.00	<2.00	4.30	<2.00	<2.00
Toluene	1,000	257,500	25.6	0.812	1.93	1.20	15.1	0.809	6.88	0.930	1.43	0.851	0.734
m/p-Xylene			31.0	1.66	2.35	1.30	92.0	0.966	11.0	1.11	1.32	0.687	<2.00
o-Xylene			19.2	0.823	12.4	<2.00	237	<2.00	9.54	<2.00	<2.00	<2.00	<2.00
<i>Xylenes (total)</i>	530	87,500	50.2	2.483	14.75	1.30	329.0	0.966	20.54	1.11	1.32	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	11.5	<10.0	11	<10.0	26.6	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			730.0	22.74	178.33	20.39	688.5	27.16	253.08	11.8	41.07	20.47	34.0
All other Compounds	Varies	Varies	< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EPA 200.7 / SM 3030C (ug/L)													
Lead (EPA 6010B / SM 3030C) (ug/L)	15	15,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicted location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for April 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	MW-21	MW-22	MW-23	Duplicate
VOCs by EPA Method 6210D (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500
Benzene	1	5,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Toluene	1,000	257,500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
m/p-Xylene			<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
o-Xylene			<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
All other Compounds	Varies	Varies	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicted location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for January 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	Duplicate	MW-21	MW-22	MW-23
VOCs by EPA Method 6210D (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500	<2.00	<2.00	<2.00
Benzene	1	5,000	<1.00	<1.00	<1.00	<1.00	7.84	<1.00	0.815	0.816	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	<1.00	0.366	16.1	<1.00	212	<1.00	1.90	1.93	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	2.32	<2.00
Toluene	1,000	257,500	<1.00	<1.00	1.82	<1.00	123	<1.00	3.10	2.99	<1.00	<1.00	<1.00
m/p-Xylene			<2.00	<2.00	2.67	<2.00	296	<2.00	3.39	3.38	<2.00	<2.00	<2.00
o-Xylene			<2.00	<2.00	11.2	<2.00	642	<2.00	1.18	1.19	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	<4.00	<4.00	13.87	<4.00	938	<4.00	4.56	4.57	<4.00	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	2.70	<10.0	<10.0	3.90	<10.0	1.90	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	<10.0	<10.0	6.1	<10.0	101	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	< 10.0	< 10.0	< 10.0	<10.0	4.70	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			<10.0	<10.0	126.53	<10.0	1983.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
All other Compounds	Varies	Varies	< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

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ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicted location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

SOVEREIGN CONSULTING INC. 405 Oakmeads Crescent, Suite 1 Virginia Beach, Virginia 23462				SOIL BORING LOG: UST645TB-SB01 (TB= Tank Basin) Client: NAVFAC Mid-Atlantic Project: Bldg 645 Location: MCB Camp Lejeune		Date Drilled: 20 August 2007 Total Depth: 15 feet Logged By: Kurt Merkle	
				Drilling Co.: IMS Environmental Driller: Keith Drill Rig: Truck Mounted Geo-Probe Drill Method: Direct Push		Sample Method: DRO,GRO Borehole Diameter: 2" Weather: 95 F Sunny, Humid	
USCS CODE/	DEPTH (FT)	Recovery (Feet)	PID (ppm)	Lithologic Description	Remarks		
	0	4		Dark Brown Soil, dry, no odor			
			94.3				
	1						
			125.0				
	2						
		50.0					
	3		Light Brown to Tan Sandy Soil, no odor				
		2.0					
	4						
		1.7					
	5						
		0.0					
	6						
		0.0					
	7						
		0.0					
	8		Clay Tan and Grey with Orange Streaks, moisture present				
		0.0					
	9						
		0.0					
	10						
		0.0					
	11						
		0.0					
	12						
		5.6					
	13		Clay Tan and Brown odor and wetness present				
		169.0					
	14						
		12.6	Dark Grey Clay and Coarse Sand Brown to Orange				
	15						
		0.0					
	16						
				Bottom of Soil Boring			
Notes: Sampled at 1035AM, Int of 10'-11'							

**405 Oakmeads Crescent, Suite 1
Virginia Beach, Virginia 23462**

Client: **NAVFAC Mid-Atlantic**
Project: **Bldg 645**
Location: **MCB Camp Lejeune**

Date Drilled: **20 August 2007**
Total Depth: **12 feet**
Logged By: **Kurt Merkle**



Drilling Co.: IMS Environmental
Driller: Keith
Drill Rig: Truck Mounted Geo-Probe
Drill Method: Direct Push

Sample Method: DRO,GRO
Borehole Diameter: 2"
Weather: 95 F Sunny, Humid

[illegible]

Sampled at 1120AM, Int 11'-12'

SOVEREIGN CONSULTING INC. 405 Oakmears Crescent, Suite 1 Virginia Beach, Virginia 23462				SOIL BORING LOG: UST645TB-SB03 (TB= Tank Basin) Client: NAVFAC Mid-Atlantic Project: Bldg 645 Location: MCB Camp Lejeune				Date Drilled: 20 August 2007 Total Depth: 12 feet Logged By: Kurt Merkle			
				Drilling Co.: IMS Environmental Driller: Keith Drill Rig: Truck Mounted Geo-Probe Drill Method: Direct Push				Sample Method: DRO,GRO Borehole Diameter: 2" Weather: 95 F Sunny, Humid			
USCS CODE/	DEPTH (FT)	Recovery (Feet)	PID (ppm)	Lithologic Description				Remarks			
	0	3		Dark Brown Soil, dry, no odor				Wet at 12'			
			0.7								
	1									0.0	
	2									7.1	
	3									0.0	
	4										
		4	0.0	Light Brown to Tan Sandy Soil, no odor							
	5									0.0	
	6									0.0	
	7									5.0	
	8									0.0	
	9									0.0	
	10	4	0.0	Clay Tan and Grey with Orange Streaks, moisture , no odor							
	11									0.0	
	12									70.0	
				Bottom of Soil Boring							

Notes:
Sampled at 1145AM, Int 11'-12'

**405 Oakmeads Crescent, Suite 1
Virginia Beach, Virginia 23462**

SOIL BORING LOG: UST645TB-SB04 (TB= Tank Basin)

Client: NAVFAC Mid-Atlantic
Project: Bldg 645

Date Drilled: **20 August 2007**
Total Depth: **12 feet**



Sample Method: DRO,GRO
Borehole Diameter: 2"
Weather: 95 F Sunny, Humid

[illegible]

Notes:
Sampled at 1215AM, Int 11'-12'

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2007 SAMPLING EVENTS



Mr. Chris Murray
Sovereign Consulting
405 Oakmears Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-117
Client Project: Bldg 645/NV019

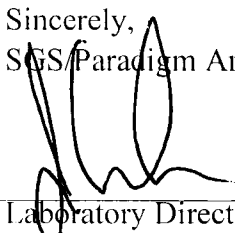
Dear Mr. Murray:

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



Date



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.

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-TRIP BLANK

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 0:00

Lab Sample ID: G650-117-1A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/24/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

37.8

94.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW11
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-2A
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/17/2007 18:15
Date Received: 7/20/2007
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/24/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.4

98.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW28

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 19:02

Lab Sample ID: G650-117-3A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/24/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.4	98.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW13

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 19:21

Lab Sample ID: G650-117-4A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/24/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	38.8	97

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**
by GC 601

Client Sample ID: UST645-MW08
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-5A
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/17/2007 19:59
Date Received: 7/20/2007
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/24/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.8	99.6

Comments:

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

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW12

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 9:47

Lab Sample ID: G650-117-6B

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/31/2007	
Bromoform	BQL	2.00	0.353	1	7/31/2007	
Bromomethane	BQL	1.00	0.395	1	7/31/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/31/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/31/2007	
Chloroethane	BQL	1.00	0.271	1	7/31/2007	
Chloroform	BQL	1.00	0.133	1	7/31/2007	
Chloromethane	BQL	1.00	0.278	1	7/31/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/31/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/31/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/31/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/31/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/31/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/31/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/31/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/31/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/31/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/31/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/31/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/31/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/31/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/31/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/31/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/31/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
Trichloroethene	BQL	1.00	0.115	1	7/31/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/31/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.7	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW09

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 10:12

Lab Sample ID: G650-117-7A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/25/2007	
Bromoform	BQL	2.00	0.353	1	7/25/2007	
Bromomethane	BQL	1.00	0.395	1	7/25/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/25/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/25/2007	
Chloroethane	BQL	1.00	0.271	1	7/25/2007	
Chloroform	BQL	1.00	0.133	1	7/25/2007	
Chloromethane	BQL	1.00	0.278	1	7/25/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/25/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/25/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/25/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/25/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/25/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/25/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/25/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/25/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/25/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/25/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/25/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/25/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/25/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/25/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/25/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/25/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
Trichloroethene	BQL	1.00	0.115	1	7/25/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/25/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.0	99.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW22

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 10:27

Lab Sample ID: G650-117-8A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/25/2007	
Bromoform	BQL	2.00	0.353	1	7/25/2007	
Bromomethane	BQL	1.00	0.395	1	7/25/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/25/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/25/2007	
Chloroethane	BQL	1.00	0.271	1	7/25/2007	
Chloroform	BQL	1.00	0.133	1	7/25/2007	
Chloromethane	BQL	1.00	0.278	1	7/25/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/25/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/25/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/25/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/25/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/25/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/25/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/25/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/25/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/25/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/25/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/25/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/25/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/25/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/25/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/25/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/25/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
Trichloroethene	BQL	1.00	0.115	1	7/25/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/25/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.4	98.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW23

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 11:31

Lab Sample ID: G650-117-9A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/25/2007	
Bromoform	BQL	2.00	0.353	1	7/25/2007	
Bromomethane	BQL	1.00	0.395	1	7/25/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/25/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/25/2007	
Chloroethane	BQL	1.00	0.271	1	7/25/2007	
Chloroform	BQL	1.00	0.133	1	7/25/2007	
Chloromethane	BQL	1.00	0.278	1	7/25/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/25/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/25/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/25/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/25/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/25/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/25/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/25/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/25/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/25/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/25/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/25/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/25/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/25/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/25/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/25/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/25/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
Trichloroethene	BQL	1.00	0.115	1	7/25/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/25/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.0	97.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS 11 of 104

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-DUPLICATE 1

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 0:00

Lab Sample ID: G650-117-10A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/25/2007	
Bromoform	BQL	2.00	0.353	1	7/25/2007	
Bromomethane	BQL	1.00	0.395	1	7/25/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/25/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/25/2007	
Chloroethane	BQL	1.00	0.271	1	7/25/2007	
Chloroform	BQL	1.00	0.133	1	7/25/2007	
Chloromethane	BQL	1.00	0.278	1	7/25/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/25/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/25/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/25/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/25/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/25/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/25/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/25/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/25/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/25/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/25/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/25/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/25/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/25/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/25/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/25/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/25/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
Trichloroethene	BQL	1.00	0.115	1	7/25/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/25/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/25/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.3

98.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW15

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 11:17

Lab Sample ID: G650-117-11A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/25/2007	
Bromoform	BQL	2.00	0.353	1	7/25/2007	
Bromomethane	BQL	1.00	0.395	1	7/25/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/25/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/25/2007	
Chloroethane	BQL	1.00	0.271	1	7/25/2007	
Chloroform	BQL	1.00	0.133	1	7/25/2007	
Chloromethane	BQL	1.00	0.278	1	7/25/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/25/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/25/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/25/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/25/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/25/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/25/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/25/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/25/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/25/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/25/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/25/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/25/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/25/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/25/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/25/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/25/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/25/2007	
Trichloroethene	BQL	1.00	0.115	1	7/25/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/25/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/25/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.8

99.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOR_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW03

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 12:32

Lab Sample ID: G650-117-12B

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.9	99.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW01

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-13A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/18/2007 12:57

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS 15 of 104

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW02

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 14:03

Lab Sample ID: G650-117-14A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

37.8

94.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW21

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-15A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/18/2007 14:40

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.5	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW04

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 15:07

Lab Sample ID: G650-117-16A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.0

97.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW25

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 15:45

Lab Sample ID: G650-117-17A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

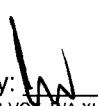
Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	38.8	96.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOX_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW17
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-18A
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/18/2007 16:10
Date Received: 7/20/2007
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	36.0	90

Comments:

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

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW24

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 16:39

Lab Sample ID: G650-117-19A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.0	97.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW19

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 17:27

Lab Sample ID: G650-117-20A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	BQL	1.00	0.278	1	7/26/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/26/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.2	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW20

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-21A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/18/2007 17:00

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	BQL	1.00	0.133	1	7/30/2007	
Chloromethane	BQL	1.00	0.278	1	7/30/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW10

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 8:50

Lab Sample ID: G650-117-22A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

40.0

100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW16

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-23A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/19/2007 9:15

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.8	99.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VQA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW07

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 9:45

Lab Sample ID: G650-117-24A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

41.8

104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW14

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-25A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/19/2007 10:20

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.4	98.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW06

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 11:24

Lab Sample ID: G650-117-26A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.5	98.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 
GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW26

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 12:09

Lab Sample ID: G650-117-27A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	2.00	0.414	2	7/31/2007	
Bromoform	BQL	4.00	0.706	2	7/31/2007	
Bromomethane	BQL	2.00	0.79	2	7/31/2007	
Carbon tetrachloride	BQL	4.00	0.364	2	7/31/2007	
Chlorobenzene	BQL	2.00	0.23	2	7/31/2007	
Chloroethane	BQL	2.00	0.542	2	7/31/2007	
Chloroform	BQL	2.00	0.266	2	7/31/2007	
Chloromethane	BQL	2.00	0.556	2	7/31/2007	
Dibromochloromethane	BQL	2.00	0.238	2	7/31/2007	
1,2-Dibromoethane (EDB)	BQL	2.00	0.199	2	7/31/2007	
1,2-Dichlorobenzene	BQL	2.00	0.272	2	7/31/2007	
1,3-Dichlorobenzene	BQL	2.00	0.208	2	7/31/2007	
1,4-Dichlorobenzene	BQL	2.00	0.232	2	7/31/2007	
1,1-Dichloroethane	BQL	2.00	0.244	2	7/31/2007	
1,2-Dichloroethane	BQL	2.00	0.208	2	7/31/2007	
1,1-Dichloroethene	BQL	2.00	0.25	2	7/31/2007	
cis-1,2-Dichloroethene	BQL	4.00	0.42	2	7/31/2007	
trans-1,2-Dichloroethene	BQL	2.00	0.234	2	7/31/2007	
1,2-Dichloropropane	BQL	2.00	0.222	2	7/31/2007	
cis-1,3-Dichloropropene	BQL	2.00	0.282	2	7/31/2007	
trans-1,3-Dichloropropene	BQL	2.00	0.216	2	7/31/2007	
Methylene Chloride	BQL	10.0	0.198	2	7/31/2007	
1,1,2,2-Tetrachloroethane	BQL	4.00	0.548	2	7/31/2007	
Tetrachloroethene	BQL	4.00	0.334	2	7/31/2007	
1,1,1-Trichloroethane	BQL	2.00	0.286	2	7/31/2007	
1,1,2-Trichloroethane	BQL	2.00	0.286	2	7/31/2007	
Trichloroethene	BQL	2.00	0.23	2	7/31/2007	
Trichlorofluoromethane	BQL	2.00	0.83	2	7/31/2007	
Vinyl Chloride	BQL	2.00	0.232	2	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	41.8	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW32

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 12:22

Lab Sample ID: G650-117-28A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	BQL	1.00	0.278	1	7/27/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/27/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/27/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

40.3

101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**
by GC 601

Client Sample ID: UST645-MW18
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-29B
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/19/2007 14:14
Date Received: 7/20/2007
Matrix: Water

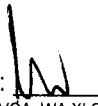
Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/31/2007	
Bromoform	BQL	2.00	0.353	1	7/31/2007	
Bromomethane	BQL	1.00	0.395	1	7/31/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/31/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/31/2007	
Chloroethane	BQL	1.00	0.271	1	7/31/2007	
Chloroform	BQL	1.00	0.133	1	7/31/2007	
Chloromethane	BQL	1.00	0.278	1	7/31/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/31/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/31/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/31/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/31/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/31/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/31/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/31/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/31/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/31/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/31/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/31/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/31/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/31/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/31/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/31/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/31/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
Trichloroethene	BQL	1.00	0.115	1	7/31/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/31/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	41.5	104

Comments:

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

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW31

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 14:52

Lab Sample ID: G650-117-30A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	0.964	1.00	0.133	1	7/30/2007	J
Chloromethane	BQL	1.00	0.278	1	7/30/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/30/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

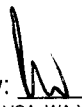
39.5

98.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW27

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 16:10

Lab Sample ID: G650-117-31B

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/31/2007	
Bromoform	BQL	2.00	0.353	1	7/31/2007	
Bromomethane	BQL	1.00	0.395	1	7/31/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/31/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/31/2007	
Chloroethane	BQL	1.00	0.271	1	7/31/2007	
Chloroform	BQL	1.00	0.133	1	7/31/2007	
Chloromethane	BQL	1.00	0.278	1	7/31/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/31/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/31/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/31/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/31/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/31/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/31/2007	
1,2-Dichloroethane	0.159	1.00	0.104	1	7/31/2007	J
1,1-Dichloroethene	BQL	1.00	0.125	1	7/31/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/31/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/31/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/31/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/31/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/31/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/31/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/31/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/31/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
Trichloroethene	BQL	1.00	0.115	1	7/31/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/31/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/31/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

40.3

101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW30

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 17:19

Lab Sample ID: G650-117-32A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	BQL	1.00	0.133	1	7/30/2007	
Chloromethane	BQL	1.00	0.278	1	7/30/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/30/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

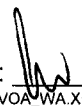
41.0

103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW29

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 18:09

Lab Sample ID: G650-117-33A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	BQL	1.00	0.133	1	7/30/2007	
Chloromethane	BQL	1.00	0.278	1	7/30/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/30/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

42.4

106

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: UST645-MW05
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-34A
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/19/2007 18:04
Date Received: 7/20/2007
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	BQL	1.00	0.133	1	7/30/2007	
Chloromethane	BQL	1.00	0.278	1	7/30/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/30/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

41.2

103

Comments:

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

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072607A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	0.525	1.00	0.278	1	7/26/2007	J
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	0.587	1.00	0.111	1	7/26/2007	J
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	0.366	1.00	0.116	1	7/26/2007	J

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

38.9

97.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072607B

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/27/2007	
Bromoform	BQL	2.00	0.353	1	7/27/2007	
Bromomethane	BQL	1.00	0.395	1	7/27/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/27/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/27/2007	
Chloroethane	BQL	1.00	0.271	1	7/27/2007	
Chloroform	BQL	1.00	0.133	1	7/27/2007	
Chloromethane	0.517	1.00	0.278	1	7/27/2007	J
Dibromochloromethane	BQL	1.00	0.119	1	7/27/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/27/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/27/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/27/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/27/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/27/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/27/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/27/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/27/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/27/2007	
1,2-Dichloropropane	0.680	1.00	0.111	1	7/27/2007	J
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/27/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/27/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/27/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/27/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/27/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/27/2007	
Trichloroethene	BQL	1.00	0.115	1	7/27/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/27/2007	
Vinyl Chloride	0.283	1.00	0.116	1	7/27/2007	J

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**
by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072507B

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/26/2007	
Bromoform	BQL	2.00	0.353	1	7/26/2007	
Bromomethane	BQL	1.00	0.395	1	7/26/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/26/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/26/2007	
Chloroethane	BQL	1.00	0.271	1	7/26/2007	
Chloroform	BQL	1.00	0.133	1	7/26/2007	
Chloromethane	0.506	1.00	0.278	1	7/26/2007	J
Dibromochloromethane	BQL	1.00	0.119	1	7/26/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/26/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/26/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/26/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/26/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/26/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/26/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/26/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/26/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/26/2007	
1,2-Dichloropropane	0.782	1.00	0.111	1	7/26/2007	J
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/26/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/26/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/26/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/26/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/26/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/26/2007	
Trichloroethene	BQL	1.00	0.115	1	7/26/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/26/2007	
Vinyl Chloride	0.296	1.00	0.116	1	7/26/2007	J

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.1

97.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072307A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/24/2007	
Bromoform	BQL	2.00	0.353	1	7/24/2007	
Bromomethane	BQL	1.00	0.395	1	7/24/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/24/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/24/2007	
Chloroethane	BQL	1.00	0.271	1	7/24/2007	
Chloroform	BQL	1.00	0.133	1	7/24/2007	
Chloromethane	BQL	1.00	0.278	1	7/24/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/24/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/24/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/24/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/24/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/24/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/24/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/24/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/24/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/24/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/24/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/24/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/24/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/24/2007	
Methylene Chloride	1.24	5.00	0.0988	1	7/24/2007	J
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/24/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/24/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/24/2007	
Trichloroethene	BQL	1.00	0.115	1	7/24/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/24/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/24/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

39.1

97.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1073107A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/31/2007	
Bromoform	BQL	2.00	0.353	1	7/31/2007	
Bromomethane	BQL	1.00	0.395	1	7/31/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/31/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/31/2007	
Chloroethane	BQL	1.00	0.271	1	7/31/2007	
Chloroform	BQL	1.00	0.133	1	7/31/2007	
Chloromethane	BQL	1.00	0.278	1	7/31/2007	
Dibromochloromethane	BQL	1.00	0.119	1	7/31/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/31/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/31/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/31/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/31/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/31/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/31/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/31/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/31/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/31/2007	
1,2-Dichloropropane	0.666	1.00	0.111	1	7/31/2007	J
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/31/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/31/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/31/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/31/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/31/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/31/2007	
Trichloroethene	BQL	1.00	0.115	1	7/31/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/31/2007	
Vinyl Chloride	BQL	1.00	0.116	1	7/31/2007	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

1,4-Dichlorobutane

40

41.1

103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 601

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072807A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Bromodichloromethane	BQL	1.00	0.207	1	7/30/2007	
Bromoform	BQL	2.00	0.353	1	7/30/2007	
Bromomethane	BQL	1.00	0.395	1	7/30/2007	
Carbon tetrachloride	BQL	2.00	0.182	1	7/30/2007	
Chlorobenzene	BQL	1.00	0.115	1	7/30/2007	
Chloroethane	BQL	1.00	0.271	1	7/30/2007	
Chloroform	BQL	1.00	0.133	1	7/30/2007	
Chloromethane	0.554	1.00	0.278	1	7/30/2007	J
Dibromochloromethane	BQL	1.00	0.119	1	7/30/2007	
1,2-Dibromoethane (EDB)	BQL	1.00	0.0994	1	7/30/2007	
1,2-Dichlorobenzene	BQL	1.00	0.136	1	7/30/2007	
1,3-Dichlorobenzene	BQL	1.00	0.104	1	7/30/2007	
1,4-Dichlorobenzene	BQL	1.00	0.116	1	7/30/2007	
1,1-Dichloroethane	BQL	1.00	0.122	1	7/30/2007	
1,2-Dichloroethane	BQL	1.00	0.104	1	7/30/2007	
1,1-Dichloroethene	BQL	1.00	0.125	1	7/30/2007	
cis-1,2-Dichloroethene	BQL	2.00	0.21	1	7/30/2007	
trans-1,2-Dichloroethene	BQL	1.00	0.117	1	7/30/2007	
1,2-Dichloropropane	BQL	1.00	0.111	1	7/30/2007	
cis-1,3-Dichloropropene	BQL	1.00	0.141	1	7/30/2007	
trans-1,3-Dichloropropene	BQL	1.00	0.108	1	7/30/2007	
Methylene Chloride	BQL	5.00	0.0988	1	7/30/2007	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.274	1	7/30/2007	
Tetrachloroethene	BQL	2.00	0.167	1	7/30/2007	
1,1,1-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
1,1,2-Trichloroethane	BQL	1.00	0.143	1	7/30/2007	
Trichloroethene	BQL	1.00	0.115	1	7/30/2007	
Trichlorofluoromethane	BQL	1.00	0.415	1	7/30/2007	
Vinyl Chloride	0.316	1.00	0.116	1	7/30/2007	J

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	39.9	99.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-TRIP BLANK

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 0:00

Lab Sample ID: G650-117-1A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW11

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 18:15

Lab Sample ID: G650-117-2A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW28

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 19:02

Lab Sample ID: G650-117-3A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	4.33	1.00	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW13

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 19:21

Lab Sample ID: G650-117-4A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.7	99.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW08

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/17/2007 19:59

Lab Sample ID: G650-117-5A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW12

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 9:47

Lab Sample ID: G650-117-6A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	8.00	1.46	8	7/24/2007	
Diisopropyl ether (DIPE)	BQL	8.00	1.83	8	7/24/2007	
Ethylbenzene	146	8.00	1.45	8	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	16.0	2.87	8	7/24/2007	
Toluene	BQL	8.00	1.26	8	7/24/2007	
m/p-Xylene	171	16.0	3.85	8	7/24/2007	
o-Xylene	190	16.0	4.67	8	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW09

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 10:12

Lab Sample ID: G650-117-7A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/25/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/25/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/25/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/25/2007	
Toluene	BQL	1.00	0.157	1	7/25/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/25/2007	
o-Xylene	BQL	2.00	0.584	1	7/25/2007	

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.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW22

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 10:27

Lab Sample ID: G650-117-8A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/25/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/25/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/25/2007	
Methyl-tert butyl ether (MTBE)	5.07	2.00	0.359	1	7/25/2007	
Toluene	BQL	1.00	0.157	1	7/25/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/25/2007	
o-Xylene	BQL	2.00	0.584	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.6	99

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW23

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 11:31

Lab Sample ID: G650-117-9A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/25/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/25/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/25/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/25/2007	
Toluene	BQL	1.00	0.157	1	7/25/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/25/2007	
o-Xylene	BQL	2.00	0.584	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.7	99.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-DUPLICATE 1

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 0:00

Lab Sample ID: G650-117-10A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/25/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/25/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/25/2007	
Methyl-tert butyl ether (MTBE)	4.93	2.00	0.359	1	7/25/2007	
Toluene	BQL	1.00	0.157	1	7/25/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/25/2007	
o-Xylene	BQL	2.00	0.584	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.6	98.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW15

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 11:17

Lab Sample ID: G650-117-11A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/25/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/25/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/25/2007	
Methyl-tert butyl ether (MTBE)	2.34	2.00	0.359	1	7/25/2007	
Toluene	BQL	1.00	0.157	1	7/25/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/25/2007	
o-Xylene	BQL	2.00	0.584	1	7/25/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW03

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 12:32

Lab Sample ID: G650-117-12B

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	11.0	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

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.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW01

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 12:57

Lab Sample ID: G650-117-13A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW02

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 14:03

Lab Sample ID: G650-117-14A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW21

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 14:40

Lab Sample ID: G650-117-15A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.7

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW04

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 15:07

Lab Sample ID: G650-117-16A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.6	99

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW25

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 15:45

Lab Sample ID: G650-117-17A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW17

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 16:10

Lab Sample ID: G650-117-18A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW24

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 16:39

Lab Sample ID: G650-117-19A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW19

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 17:27

Lab Sample ID: G650-117-20A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW20

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/18/2007 17:00

Lab Sample ID: G650-117-21A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW10

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 8:50

Lab Sample ID: G650-117-22A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW16

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 9:15

Lab Sample ID: G650-117-23A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW07

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 9:45

Lab Sample ID: G650-117-24A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW14

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 10:20

Lab Sample ID: G650-117-25A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW06

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 11:24

Lab Sample ID: G650-117-26A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW26

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 12:09

Lab Sample ID: G650-117-27A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	1180	200	36.6	200	7/27/2007	
Diisopropyl ether (DIPE)	BQL	200	45.8	200	7/27/2007	
Ethylbenzene	50.8	200	36.2	200	7/27/2007	J
Methyl-tert butyl ether (MTBE)	BQL	400	71.8	200	7/27/2007	
Toluene	3900	200	31.4	200	7/27/2007	
m/p-Xylene	BQL	400	96.2	200	7/27/2007	
o-Xylene	BQL	400	117	200	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW32

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 12:22

Lab Sample ID: G650-117-28A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW18

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 14:14

Lab Sample ID: G650-117-29A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	7.20	4.00	0.732	4	7/27/2007	
Diisopropyl ether (DIPE)	BQL	4.00	0.916	4	7/27/2007	
Ethylbenzene	72.8	4.00	0.724	4	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	8.00	1.44	4	7/27/2007	
Toluene	BQL	4.00	0.628	4	7/27/2007	
m/p-Xylene	BQL	8.00	1.92	4	7/27/2007	
o-Xylene	BQL	8.00	2.34	4	7/27/2007	

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.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW31

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 14:52

Lab Sample ID: G650-117-30A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW27
Client Project ID: Bldg 645/NV019
Lab Sample ID: G650-117-31B
Lab Project ID: G650-117

Analyzed By: RSB
Date Collected: 7/19/2007 16:10
Date Received: 7/20/2007
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	25.3	2.00	0.366	2	7/26/2007	
Diisopropyl ether (DIPE)	BQL	2.00	0.458	2	7/26/2007	
Ethylbenzene	BQL	2.00	0.362	2	7/26/2007	
Methyl-tert butyl ether (MTBE)	52.2	4.00	0.718	2	7/26/2007	
Toluene	BQL	2.00	0.314	2	7/26/2007	
m/p-Xylene	BQL	4.00	0.962	2	7/26/2007	
o-Xylene	BQL	4.00	1.17	2	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.8	97

Comments:

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

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW30

Client Project ID: Bldg 645/NV019

Lab Sample ID: G650-117-32A

Lab Project ID: G650-117

Analyzed By: RSB

Date Collected: 7/19/2007 17:19

Date Received: 7/20/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VQA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW29

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 18:09

Lab Sample ID: G650-117-33A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	22.4	1.00	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

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.

**Results for Volatiles**

by GC 602

Client Sample ID: UST645-MW05

Analyzed By: RSB

Client Project ID: Bldg 645/NV019

Date Collected: 7/19/2007 18:04

Lab Sample ID: G650-117-34A

Date Received: 7/20/2007

Lab Project ID: G650-117

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072607B

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	0.183	1	7/27/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/27/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/27/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/27/2007	
Toluene	BQL	1.00	0.157	1	7/27/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/27/2007	
o-Xylene	BQL	2.00	0.584	1	7/27/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072507B

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	0.183	1	7/26/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/26/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/26/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/26/2007	
Toluene	BQL	1.00	0.157	1	7/26/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/26/2007	
o-Xylene	BQL	2.00	0.584	1	7/26/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072307A

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	0.183	1	7/24/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/24/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/24/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/24/2007	
Toluene	BQL	1.00	0.157	1	7/24/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/24/2007	
o-Xylene	BQL	2.00	0.584	1	7/24/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1073107A

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	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1072807A

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	0.183	1	7/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/30/2007	
Toluene	BQL	1.00	0.157	1	7/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/30/2007	
o-Xylene	BQL	2.00	0.584	1	7/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for LCS-LCSD

Method : 601-602

Inst: GC1

LCS : 1072607/004F::1072607/004R

LCSD : 1072607/005F::1072607/005R

Compound	µg/L			REC(%)		REC Limits	
	SA	LCS	LCSD	LCS	LCSD	Lower	Upper
Bromodichloromethane	10	8.2	8.7	82	87	42	172
Bromoform	10	8.2	8.7	82	87	13	159
Bromomethane	10	9.4	10.0	94	100	D	144
Carbon tetrachloride	20	18.2	18.4	91	92	43	143
Chlorobenzene	10	8.7	9.2	87	92	38	150
Chloroethane	10	9.3	9.6	93	96	46	137
Chloroform	10	9.0	9.0	90	90	49	133
Chloromethane	10	10.1	10.2	101	102	D	193
Dibromochloromethane	10	8.5	8.8	85	88	24	191
• 1,2-Dibromoethane	10	8.7	8.5	87	85	D	206
1,2-Dichlorobenzene	10	8.6	9.2	86	92	D	208
1,3-Dichlorobenzene	10	9.0	9.2	90	92	7	187
1,4-Dichlorobenzene	10	9.0	9.2	90	92	42	143
1,1-Dichloroethane	10	8.7	8.9	87	89	47	132
1,2-Dichloroethane	10	8.8	8.7	88	87	51	147
1,1-Dichloroethene	10	8.6	8.9	86	89	28	167
• cis-1,2-Dichloroethene	20	19.2	19.8	96	99	19	181
trans-1,2-Dichloroethene	10	8.8	9.0	88	90	38	155
1,2-Dichloropropane	10	9.1	9.5	91	95	44	156
cis-1,3-Dichloropropene	10	8.5	8.7	85	87	22	178
trans-1,3-Dichloropropene	10	8.5	8.9	85	89	22	178
Methylene Chloride	10	9.0	8.9	90	89	25	162
1,1,2,2-Tetrachloroethane	20	26.1	26.7	130	134	8	184
Tetrachloroethane	20	18.0	18.7	90	93	26	162
1,1,1-Trichloroethane	10	8.8	8.9	88	89	41	138
1,1,2-Trichloroethane	10	8.6	8.9	86	89	39	136
Trichloroethene	10	8.6	9.1	86	91	35	146
Trichlorofluoromethane	10	9.2	9.3	92	93	21	156
Vinyl Chloride	10	9.5	10.0	95	100	28	163

Method: 602

Compound	µg/L			P(%)		P Limits	
	SA	LCS	LCSD	MS	MSD	Lower	Upper
Benzene	10	9.2	9.1	92	91	39	150
Chlorobenzene	10	9.2	9.0	97	96	55	135
1,2-Dichlorobenzene	10	18.6	18.2	193 +	189 +	37	154
1,3-Dichlorobenzene	10	9.2	9.1	97	95	50	141
1,4-Dichlorobenzene	20	18.9	18.4	99	97	42	143
• Diisopropyl ether	10	8.9	8.8	89	88	30	170
Ethylbenzene	10	9.5	9.3	95	93	32	160
• MTBE	20	17.6	17.3	94	92	35	165
Toluene	10	9.3	9.1	99	98	46	148
• m,p-Xylene	20	18.9	18.5	101	99	D	239
• o-Xylene	20	18.7	18.3	100	98	36	164

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072607/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	8.2	82.2		42	172
Bromoform	10.0	8.2	81.5		13	159
Bromomethane	10.0	9.4	94.1		0	144
Carbon tetrachloride	20.0	18.2	90.9		43	143
Chlorobenzene	10.0	8.7	86.8		38	150
Chloroethane	10.0	9.3	93.3		46	137
Chloroform	10.0	9.0	90.1		49	133
Chloromethane	10.0	10.1	100.7		0	193
Dibromochloromethane	10.0	8.5	85.1		24	191
1,2-Dibromoethane	10.0	8.7	86.7		0	206
1,2-Dichlorobenzene	10.0	8.6	86.4		0	208
1,3-Dichlorobenzene	10.0	9.0	90.2		7	187
1,4-Dichlorobenzene	10.0	9.0	89.5		42	143
1,1-Dichloroethane	10.0	8.7	87.1		47	132
1,2-Dichloroethane	10.0	8.8	88.1		51	147
1,1-Dichloroethene	10.0	8.6	85.7		28	167
cis-1,2-Dichloroethene	20.0	19.2	96.1		19	181
trans-1,2-Dichloroethene	10.0	8.8	87.8		38	155
1,2-Dichloropropane	10.0	9.1	90.9		44	156
cis-1,3-Dichloropropene	10.0	8.5	85.1		22	178
trans-1,3-Dichloropropene	10.0	8.5	85.1		22	178
Methylene Chloride	10.0	9.0	90.4		25	162
1,1,2,2-Tetrachloroethane	20.0	26.1	130.4		8	184
Tetrachloroethane	10.0	9.1	91.4		26	162
1,1,1-Trichloroethane	10.0	8.8	87.7		41	138
1,1,2-Trichloroethane	10.0	8.6	86.3		39	136
Trichloroethene	10.0	8.6	86.4		35	146
Trichlorofluoromethane	10.0	9.2	91.8		21	156
Vinyl Chloride	10.0	9.5	94.9		28	163

Method: 602

Filename : 1072607/004r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.2	92.3	39	150
Chlorobenzene	10.0	9.2	91.6	55	135
1,2-Dichlorobenzene	20.0	18.6	92.9	37	154
1,3-Dichlorobenzene	10.0	9.2	92.4	50	141
1,4-Dichlorobenzene	20.0	18.9	94.7	42	143
Diisopropyl ether	10.0	8.9	88.9	30	170
Ethylbenzene	10.0	9.5	95.0	32	160
MTBE	20.0	17.6	88.0	35	165
Toluene	10.0	9.3	93.3	46	148
m,p-Xylene	20.0	18.9	94.6	0	239
o-Xylene	20.0	18.7	93.3	36	164

Flags :

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

Summary Results for QC Check

Method : 601

Filename : 1072607/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	17.5	87.6		76.0	124.0
Bromoform	20.0	17.7	88.5		73.5	126.5
Bromomethane	20.0	16.7	83.3		58.5	141.5
Carbon tetrachloride	40.0	37.3	93.3		68.5	131.5
Chlorobenzene	20.0	18.6	93.0		72.0	128.0
Chloroethane	20.0	16.6	83.0		77.0	123.0
Chloroform	20.0	18.4	92.2		75.0	125.0
Chloromethane	20.0	17.5	87.7		59.5	140.5
Dibromochloromethane	20.0	18.5	92.6		65.5	134.5
1,2-Dibromoethane	20.0	17.6	87.8		13.6	186.4
1,2-Dichlorobenzene	20.0	18.3	91.5		70.0	130.0
1,3-Dichlorobenzene	20.0	19.0	95.2		49.5	150.5
1,4-Dichlorobenzene	20.0	18.2	91.0		69.5	130.5
1,1-Dichloroethane	20.0	18.6	93.1		84.0	116.0
1,2-Dichloroethane	20.0	18.0	90.2		71.5	128.5
1,1-Dichloroethene	20.0	18.5	92.5		63.0	137.0
cis-1,2-Dichloroethene	40.0	40.7	101.7		34.4	180.6
trans-1,2-Dichloroethene	20.0	18.4	91.9		64.0	136.0
1,2-Dichloropropane	20.0	18.6	92.8		74.0	126.0
cis-1,3-Dichloropropene	20.0	18.1	90.4		64.0	136.0
trans-1,3-Dichloropropene	20.0	18.3	91.7		64.0	136.0
Methylene Chloride	20.0	18.4	91.9		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	54.8	91.4		49.0	151.0
Tetrachloroethene	40.0	38.3	95.8		70.0	130.0
1,1,1-Trichloroethane	20.0	18.6	92.8		71.0	129.0
1,1,2-Trichloroethane	20.0	17.8	89.2		78.5	121.5
Trichloroethene	20.0	18.6	92.8		77.0	123.0
Trichlorofluoromethane	20.0	16.1	80.7		66.5	133.5
Vinyl Chloride	20.0	16.2	80.8		68.5	131.5

Method: 602

Filename : 1072607/002r

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	19.5	97.3		77.0	123.0
Chlorobenzene	20.0	19.3	96.4		80.5	119.5
1,2-Dichlorobenzene	40.0	38.6	96.5		68.0	132.0
1,3-Dichlorobenzene	20.0	19.2	96.1		72.5	127.5
1,4-Dichlorobenzene	40.0	38.5	96.3		69.5	130.5
Diisopropyl ether	20.0	19.1	95.6		43.1	156.9
Ethylbenzene	20.0	19.9	99.6		63.0	137.0
MTBE	40.0	37.5	93.9		46.8	153.2
Toluene	20.0	19.6	97.9		77.5	127.0
m,p-Xylene	40.0	39.8	99.5		11.2	188.8
o-Xylene	40.0	39.2	98.1		47.6	152.4

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1072607/038F::1072607/038R

MS : 1072607/040F::1072607/040R

MSD : 1072607/041F::1072607/041R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	9.3	8.8	91	86	42	172
Bromoform	10.0	ND	9.3	8.8	93	88	13	159
Bromomethane	10.0	ND	9.1	10.0	91	100	D	144
Carbon tetrachloride	20.0	ND	19.6	18.4	98	92	43	143
Chlorobenzene	10.0	ND	9.6	9.0	96	90	38	150
Chloroethane	10.0	ND	9.2	9.7	92	97	46	137
Chloroform	10.0	ND	9.6	9.0	96	90	49	133
Chloromethane	10.0	ND	10.0	10.7	94	101	D	193
Dibromochloromethane	10.0	ND	9.5	9.0	95	90	24	191
1,2-Dibromoethane	10.0	ND	9.7	8.9	97	89	D	206
1,2-Dichlorobenzene	10.0	ND	9.6	8.8	96	88	D	208
1,3-Dichlorobenzene	10.0	ND	9.6	8.9	96	89	7	187
1,4-Dichlorobenzene	10.0	ND	9.7	8.9	97	89	42	143
1,1-Dichloroethane	10.0	ND	9.8	8.9	98	89	47	132
1,2-Dichloroethane	10.0	ND	9.5	8.9	95	89	51	147
1,1-Dichloroethene	10.0	ND	9.5	8.7	95	87	28	167
cis-1,2-Dichloroethene	20.0	ND	18.2	17.0	91	85	19	181
trans-1,2-Dichloroethene	10.0	ND	9.8	9.0	100	92	38	155
1,2-Dichloropropane	10.0	ND	10.0	9.4	94	88	44	156
cis-1,3-Dichloropropene	10.0	ND	8.9	8.3	89	83	22	178
trans-1,3-Dichloropropene	10.0	ND	8.7	8.4	87	84	22	178
Methylene Chloride	10.0	ND	10.2	9.5	102	96	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	28.2	26.9	141	135	8	184
Tetrachloroethane	20.0	ND	19.7	18.3	101	94	26	162
1,1,1-Trichloroethane	10.0	ND	9.7	9.1	97	91	41	138
1,1,2-Trichloroethane	10.0	ND	9.8	9.2	98	92	39	136
Trichloroethene	10.0	ND	9.6	9.1	96	91	35	146
Trichlorofluoromethane	10.0	ND	9.2	9.6	92	96	21	156
Vinyl Chloride	10.0	ND	9.3	9.9	89	95	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	5.9	17.1	16.1	112	102	39	150
Chlorobenzene	10.0	ND	9.6	8.9	96	89	55	135
1,2-Dichlorobenzene	10.0	ND	18.8	17.3	196 +	181 +	37	154
1,3-Dichlorobenzene	10.0	ND	9.5	8.8	95	88	50	141
1,4-Dichlorobenzene	20.0	ND	19.2	17.7	96	89	42	143
Diisopropyl ether	10.0	ND	9.5	8.8	98	91	30	170
Ethylbenzene	10.0	ND	11.0	10.2	107	99	32	160
MTBE	20.0	ND	18.7	17.5	99	93	35	165
Toluene	10.0	19.5	32.1	30.2	126	107	46	148
m,p-Xylene	20.0	ND	21.5	19.8	107	98	D	239
o-Xylene	20.0	ND	20.7	19.3	105	98	36	164

Flags :

- + = out of QC limits.
- ♦ = lab generated limits.
- D = Detected
- ND = None Detected
- SA = Spike Added

Summary Results for QC Check

Method : 601

Filename : 1072607/023F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	18.8	93.9		76.0	124.0
Bromoform	20.0	18.8	94.0		73.5	126.5
Bromomethane	20.0	20.2	101.1		58.5	141.5
Carbon tetrachloride	40.0	39.4	98.4		68.5	131.5
Chlorobenzene	20.0	19.9	99.4		72.0	128.0
Chloroethane	20.0	20.3	101.3		77.0	123.0
Chloroform	20.0	19.8	98.9		75.0	125.0
Chloromethane	20.0	21.8	109.0		59.5	140.5
Dibromochloromethane	20.0	19.4	96.9		65.5	134.5
1,2-Dibromoethane	20.0	19.3	96.4		13.6	186.4
1,2-Dichlorobenzene	20.0	19.1	95.6		70.0	130.0
1,3-Dichlorobenzene	20.0	19.4	96.9		49.5	150.5
1,4-Dichlorobenzene	20.0	18.9	94.5		69.5	130.5
1,1-Dichloroethane	20.0	20.0	100.1		84.0	116.0
1,2-Dichloroethane	20.0	19.0	95.2		71.5	128.5
1,1-Dichloroethene	20.0	19.1	95.5		63.0	137.0
cis-1,2-Dichloroethene	40.0	40.2	100.6		34.4	180.6
trans-1,2-Dichloroethene	20.0	19.7	98.5		64.0	136.0
1,2-Dichloropropane	20.0	19.6	97.8		74.0	126.0
cis-1,3-Dichloropropene	20.0	18.7	93.7		64.0	136.0
trans-1,3-Dichloropropene	20.0	18.9	94.5		64.0	136.0
Methylene Chloride	20.0	20.0	99.8		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	57.2	95.3		49.0	151.0
Tetrachloroethene	40.0	39.7	99.2		70.0	130.0
1,1,1-Trichloroethane	20.0	19.9	99.7		71.0	129.0
1,1,2-Trichloroethane	20.0	19.2	96.2		78.5	121.5
Trichloroethene	20.0	19.9	99.4		77.0	123.0
Trichlorofluoromethane	20.0	20.2	100.8		66.5	133.5
Vinyl Chloride	20.0	20.6	102.9		68.5	131.5

Method: 602

Filename : 1072607/023r

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	20.4	101.9		77.0	123.0
Chlorobenzene	20.0	20.1	100.6		80.5	119.5
1,2-Dichlorobenzene	40.0	38.1	95.3		68.0	132.0
1,3-Dichlorobenzene	20.0	19.7	98.5		72.5	127.5
1,4-Dichlorobenzene	40.0	39.6	98.9		69.5	130.5
Diisopropyl ether	20.0	19.5	97.7		43.1	156.9
Ethylbenzene	20.0	20.9	104.4		63.0	137.0
MTBE	40.0	38.5	96.3		46.8	153.2
Toluene	20.0	20.5	102.7		77.5	127.0
m,p-Xylene	40.0	41.8	104.4		11.2	188.8
o-Xylene	40.0	41.1	102.9		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072607/025F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	8.7	86.5		42	172
Bromoform	10.0	8.4	84.1		13	159
Bromomethane	10.0	9.9	98.8		0	144
Carbon tetrachloride	20.0	18.3	91.7		43	143
Chlorobenzene	10.0	9.0	89.6		38	150
Chloroethane	10.0	9.9	98.7		46	137
Chloroform	10.0	9.2	91.6		49	133
Chloromethane	10.0	10.7	107.4		0	193
Dibromochloromethane	10.0	9.0	89.8		24	191
1,2-Dibromoethane	10.0	8.9	89.3		0	206
1,2-Dichlorobenzene	10.0	9.0	90.0		0	208
1,3-Dichlorobenzene	10.0	9.1	90.8		7	187
1,4-Dichlorobenzene	10.0	9.0	90.1		42	143
1,1-Dichloroethane	10.0	9.4	93.5		47	132
1,2-Dichloroethane	10.0	8.9	89.4		51	147
1,1-Dichloroethene	10.0	9.0	89.8		28	167
cis-1,2-Dichloroethene	20.0	18.5	92.6		19	181
trans-1,2-Dichloroethene	10.0	9.3	92.8		38	155
1,2-Dichloropropane	10.0	9.5	94.9		44	156
cis-1,3-Dichloropropene	10.0	8.7	87.3		22	178
trans-1,3-Dichloropropene	10.0	8.4	84.0		22	178
Methylene Chloride	10.0	9.2	92.0		25	162
1,1,2,2-Tetrachloroethane	20.0	26.8	134.1		8	184
Tetrachloroethane	10.0	8.9	89.3		26	162
1,1,1-Trichloroethane	10.0	9.0	90.3		41	138
1,1,2-Trichloroethane	10.0	9.0	89.6		39	136
Trichloroethene	10.0	9.4	94.0		35	146
Trichlorofluoromethane	10.0	9.7	96.8		21	156
Vinyl Chloride	10.0	10.2	102.3		28	163

Method: 602

Filename : 1072607/025r

Compound	SA	Result	Rec		LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	10.0	9.2	92.0		39	150
Chlorobenzene	10.0	9.1	90.7		55	135
1,2-Dichlorobenzene	20.0	18.1	90.3		37	154
1,3-Dichlorobenzene	10.0	9.1	91.1		50	141
1,4-Dichlorobenzene	20.0	18.5	92.5		42	143
Diisopropyl ether	10.0	8.7	87.4		30	170
Ethylbenzene	10.0	9.4	94.3		32	160
MTBE	20.0	17.3	86.5		35	165
Toluene	10.0	9.3	93.0		46	148
m,p-Xylene	20.0	18.8	94.0		0	239
o-Xylene	20.0	18.5	92.7		36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1072507/017F::1072507/017R

MS : 1072507/019F::1072507/019R

MSD : 1072507/020F::1072507/020R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	8.9	9.4	87	92	42	172
Bromoform	10.0	ND	9.2	9.5	92	95	13	159
Bromomethane	10.0	ND	8.6	9.7	86	97	D	144
Carbon tetrachloride	20.0	ND	19.8	19.6	99	98	43	143
Chlorobenzene	10.0	ND	9.7	9.6	97	96	38	150
Chloroethane	10.0	ND	8.9	10.1	89	101	46	137
Chloroform	10.0	ND	9.6	9.7	96	97	49	133
Chloromethane	10.0	ND	10.3	11.2	97	106	D	193
Dibromochloromethane	10.0	ND	9.5	9.6	95	96	24	191
1,2-Dibromoethane	10.0	ND	9.4	9.8	94	98	D	206
1,2-Dichlorobenzene	10.0	ND	9.4	9.8	94	98	D	208
1,3-Dichlorobenzene	10.0	ND	9.7	9.7	97	97	7	187
1,4-Dichlorobenzene	10.0	ND	9.6	9.8	96	98	42	143
1,1-Dichloroethane	10.0	ND	9.5	9.9	95	99	47	132
1,2-Dichloroethane	10.0	ND	9.7	9.9	97	99	51	147
1,1-Dichloroethene	10.0	ND	9.4	9.6	94	96	28	167
cis-1,2-Dichloroethene	20.0	ND	20.9	20.6	104	103	19	181
trans-1,2-Dichloroethene	10.0	ND	9.5	9.7	95	97	38	155
1,2-Dichloropropane	10.0	ND	9.8	10.1	91	95	44	156
cis-1,3-Dichloropropene	10.0	ND	9.0	9.2	90	92	22	178
trans-1,3-Dichloropropene	10.0	ND	9.2	9.1	92	91	22	178
Methylene Chloride	10.0	ND	9.4	9.6	102	103	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	28.4	28.0	142	140	8	184
Tetrachloroethane	20.0	ND	19.7	20.1	102	103	26	162
1,1,1-Trichloroethane	10.0	ND	9.7	9.7	97	97	41	138
1,1,2-Trichloroethane	10.0	ND	9.5	9.6	95	96	39	136
Trichloroethene	10.0	ND	9.6	9.7	96	97	35	146
Trichlorofluoromethane	10.0	ND	8.5	9.7	85	97	21	156
Vinyl Chloride	10.0	ND	8.9	10.0	86	97	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	19.9	29.8	30.0	99	101	39	150
Chlorobenzene	10.0	ND	9.6	9.6	102	101	55	135
1,2-Dichlorobenzene	10.0	ND	20.4	20.2	202 +	201 +	37	154
1,3-Dichlorobenzene	10.0	ND	9.7	9.7	102	102	50	141
1,4-Dichlorobenzene	20.0	ND	18.6	18.4	99	98	42	143
Diisopropyl ether	10.0	ND	10.5	10.5	102	102	30	170
Ethylbenzene	10.0	2.1	12.7	12.7	106	106	32	160
MTBE	20.0	ND	19.6	19.7	99	100	35	165
Toluene	10.0	9.4	19.9	19.9	104	104	46	148
m,p-Xylene	20.0	6.8	28.3	28.1	107	106	D	239
o-Xylene	20.0	ND	21.2	20.9	105	104	36	164

Flags :

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

Summary Results for QC Check

Method : 601

Filename : 1072507/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	18.2	91.2		76.0	124.0
Bromoform	20.0	18.4	92.2		73.5	126.5
Bromomethane	20.0	18.5	92.6		58.5	141.5
Carbon tetrachloride	40.0	39.2	98.1		68.5	131.5
Chlorobenzene	20.0	19.3	96.3		72.0	128.0
Chloroethane	20.0	18.2	91.2		77.0	123.0
Chloroform	20.0	19.3	96.5		75.0	125.0
Chloromethane	20.0	18.9	94.3		59.5	140.5
Dibromochloromethane	20.0	18.6	93.2		65.5	134.5
1,2-Dibromoethane	20.0	18.7	93.3		13.6	186.4
1,2-Dichlorobenzene	20.0	19.0	95.2		70.0	130.0
1,3-Dichlorobenzene	20.0	19.4	97.2		49.5	150.5
1,4-Dichlorobenzene	20.0	19.0	95.2		69.5	130.5
1,1-Dichloroethane	20.0	19.6	98.0		84.0	116.0
1,2-Dichloroethane	20.0	18.9	94.4		71.5	128.5
1,1-Dichloroethene	20.0	19.1	95.6		63.0	137.0
cis-1,2-Dichloroethene	40.0	42.8	106.9		34.4	180.6
trans-1,2-Dichloroethene	20.0	19.3	96.7		64.0	136.0
1,2-Dichloropropane	20.0	19.3	96.6		74.0	126.0
cis-1,3-Dichloropropene	20.0	19.0	95.1		64.0	136.0
trans-1,3-Dichloropropene	20.0	19.1	95.3		64.0	136.0
Methylene Chloride	20.0	18.8	93.8		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	55.5	92.5		49.0	151.0
Tetrachloroethene	40.0	39.2	98.0		70.0	130.0
1,1,1-Trichloroethane	20.0	19.4	97.0		71.0	129.0
1,1,2-Trichloroethane	20.0	18.7	93.4		78.5	121.5
Trichloroethene	20.0	19.3	96.4		77.0	123.0
Trichlorofluoromethane	20.0	18.3	91.3		66.5	133.5
Vinyl Chloride	20.0	18.4	92.2		68.5	131.5

Method: 602

Filename : 1072507/002r

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	19.9	99.4		77.0	123.0
Chlorobenzene	20.0	19.7	98.3		80.5	119.5
1,2-Dichlorobenzene	40.0	39.0	97.6		68.0	132.0
1,3-Dichlorobenzene	20.0	19.5	97.5		72.5	127.5
1,4-Dichlorobenzene	40.0	38.7	96.7		69.5	130.5
Diisopropyl ether	20.0	19.1	95.7		43.1	156.9
Ethylbenzene	20.0	20.4	101.9		63.0	137.0
MTBE	40.0	38.0	95.0		46.8	153.2
Toluene	20.0	20.0	100.0		77.5	127.0
m,p-Xylene	40.0	40.7	101.7		11.2	188.8
o-Xylene	40.0	39.9	99.9		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072507/004F

Compound	SA ug/L	Result ug/L	Rec (%)	F	LCS Limits	
					Lower	Upper
Bromodichloromethane	10.0	9.1	91.2		42	172
Bromoform	10.0	9.0	90.2		13	159
Bromomethane	10.0	10.5	105.3		0	144
Carbon tetrachloride	20.0	19.9	99.3		43	143
Chlorobenzene	10.0	9.5	95.1		38	150
Chloroethane	10.0	10.2	102.5		46	137
Chloroform	10.0	9.6	95.8		49	133
Chloromethane	10.0	10.5	105.4		0	193
Dibromochloromethane	10.0	9.3	93.2		24	191
1,2-Dibromoethane	10.0	9.3	93.0		0	206
1,2-Dichlorobenzene	10.0	9.3	93.2		0	208
1,3-Dichlorobenzene	10.0	9.7	96.6		7	187
1,4-Dichlorobenzene	10.0	9.4	94.4		42	143
1,1-Dichloroethane	10.0	9.3	93.3		47	132
1,2-Dichloroethane	10.0	9.3	93.2		51	147
1,1-Dichloroethene	10.0	9.1	91.5		28	167
cis-1,2-Dichloroethene	20.0	20.8	103.9		19	181
trans-1,2-Dichloroethene	10.0	9.5	94.6		38	155
1,2-Dichloropropane	10.0	9.9	99.3		44	156
cis-1,3-Dichloropropene	10.0	9.3	93.2		22	178
trans-1,3-Dichloropropene	10.0	9.2	91.9		22	178
Methylene Chloride	10.0	8.7	86.7		25	162
1,1,2,2-Tetrachloroethane	20.0	27.7	138.5		8	184
Tetrachloroethane	10.0	9.8	97.9		26	162
1,1,1-Trichloroethane	10.0	9.5	95.3		41	138
1,1,2-Trichloroethane	10.0	9.3	92.9		39	136
Trichloroethene	10.0	9.5	95.1		35	146
Trichlorofluoromethane	10.0	10.1	100.7		21	156
Vinyl Chloride	10.0	10.5	104.8		28	163

Method: 602

Filename : 1072507/004r

Compound	SA ug/L	Result ug/L	Rec (%)		LCS Limits	
					Lower	Upper
Benzene	10.0	9.7	96.6		39	150
Chlorobenzene	10.0	9.5	95.3		55	135
1,2-Dichlorobenzene	20.0	19.2	96.1		37	154
1,3-Dichlorobenzene	10.0	9.6	95.6		50	141
1,4-Dichlorobenzene	20.0	19.1	95.7		42	143
Diisopropyl ether	10.0	9.3	93.3		30	170
Ethylbenzene	10.0	9.9	98.8		32	160
MTBE	20.0	18.4	92.0		35	165
Toluene	10.0	9.7	96.9		46	148
m,p-Xylene	20.0	19.8	98.8		0	239
o-Xylene	20.0	19.5	97.3		36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1072507/039F::1072507/039R

MS : 1072507/041F::1072507/041R

MSD : 1072507/042F::1072507/042R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	7.9	7.2	79	72	42	172
Bromoform	10.0	ND	8.0	7.5	80	75	13	159
Bromomethane	10.0	ND	8.5	9.2	85	92	D	144
Carbon tetrachloride	20.0	ND	16.7	17.0	84	85	43	143
Chlorobenzene	10.0	ND	8.2	7.9	82	79	38	150
Chloroethane	10.0	ND	9.1	9.5	91	95	46	137
Chloroform	10.0	ND	8.4	7.9	84	79	49	133
Chloromethane	10.0	ND	9.9	10.3	93	97	D	193
Dibromochloromethane	10.0	ND	8.1	7.8	81	78	24	191
• 1,2-Dibromoethane	10.0	ND	8.2	7.7	82	77	D	206
1,2-Dichlorobenzene	10.0	ND	7.9	7.9	79	79	D	208
1,3-Dichlorobenzene	10.0	ND	8.1	7.8	81	78	7	187
1,4-Dichlorobenzene	10.0	ND	8.1	7.7	81	77	42	143
1,1-Dichloroethane	10.0	ND	8.2	7.9	82	79	47	132
1,2-Dichloroethane	10.0	ND	8.2	7.7	82	77	51	147
1,1-Dichloroethene	10.0	ND	8.1	7.8	81	78	28	167
• cis-1,2-Dichloroethene	20.0	ND	16.1	14.8	80	74	19	181
trans-1,2-Dichloroethene	10.0	ND	8.2	8.0	82	80	38	155
1,2-Dichloropropane	10.0	ND	8.8	8.1	81	75	44	156
cis-1,3-Dichloropropene	10.0	ND	7.7	7.2	77	72	22	178
trans-1,3-Dichloropropene	10.0	ND	7.6	7.2	76	72	22	178
Methylene Chloride	10.0	ND	8.4	7.8	91	85	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	24.4	23.2	122	116	8	184
Tetrachloroethane	20.0	ND	16.9	16.2	87	84	26	162
1,1,1-Trichloroethane	10.0	ND	8.1	8.0	81	80	41	138
1,1,2-Trichloroethane	10.0	ND	8.3	7.9	83	79	39	136
Trichloroethene	10.0	ND	8.5	7.7	85	77	35	146
Trichlorofluoromethane	10.0	ND	9.0	9.4	90	94	21	156
Vinyl Chloride	10.0	ND	9.3	9.6	90	94	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	18.0	26.6	25.7	87	77	39	150
Chlorobenzene	10.0	ND	8.3	7.6	88	82	55	135
1,2-Dichlorobenzene	10.0	ND	15.7	14.5	166 +	153	37	154
1,3-Dichlorobenzene	10.0	ND	8.0	7.5	80	75	50	141
1,4-Dichlorobenzene	20.0	ND	16.0	15.2	80	76	42	143
• Diisopropyl ether	10.0	ND	8.4	7.7	88	82	30	170
Ethylbenzene	10.0	2.0	10.9	10.3	90	84	32	160
• MTBE	20.0	ND	16.6	15.4	87	82	35	165
Toluene	10.0	54.5	62.0	61.4	75	69	46	148
• m,p-Xylene	20.0	3.1	20.8	19.6	88	82	D	239
• o-Xylene	20.0	1.7	19.6	18.4	89	83	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA = Spike Added

Summary Results for QC Check

Method : 601

Filename : 1072507/024F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	16.8	84.0		76.0	124.0
Bromoform	20.0	17.0	84.9		73.5	126.5
Bromomethane	20.0	18.2	90.9		58.5	141.5
Carbon tetrachloride	40.0	35.5	88.9		68.5	131.5
Chlorobenzene	20.0	17.6	87.9		72.0	128.0
Chloroethane	20.0	18.7	93.4		77.0	123.0
Chloroform	20.0	17.6	87.8		75.0	125.0
Chloromethane	20.0	19.3	96.7		59.5	140.5
Dibromochloromethane	20.0	17.4	86.9		65.5	134.5
• 1,2-Dibromoethane	20.0	17.5	87.7		13.6	186.4
1,2-Dichlorobenzene	20.0	17.3	86.6		70.0	130.0
1,3-Dichlorobenzene	20.0	17.4	87.2		49.5	150.5
1,4-Dichlorobenzene	20.0	17.6	88.2		69.5	130.5
1,1-Dichloroethane	20.0	17.9	89.3		84.0	116.0
1,2-Dichloroethane	20.0	17.5	87.7		71.5	128.5
1,1-Dichloroethene	20.0	17.3	86.6		63.0	137.0
• cis-1,2-Dichloroethene	40.0	36.9	92.2		34.4	180.6
trans-1,2-Dichloroethene	20.0	17.7	88.5		64.0	136.0
1,2-Dichloropropane	20.0	17.8	89.1		74.0	126.0
cis-1,3-Dichloropropene	20.0	16.9	84.7		64.0	136.0
trans-1,3-Dichloropropene	20.0	16.8	84.1		64.0	136.0
Methylene Chloride	20.0	17.4	87.0		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	51.2	85.3		49.0	151.0
Tetrachloroethene	40.0	35.6	89.0		70.0	130.0
1,1,1-Trichloroethane	20.0	17.6	88.1		71.0	129.0
1,1,2-Trichloroethane	20.0	17.0	85.2		78.5	121.5
Trichloroethene	20.0	17.8	89.0		77.0	123.0
Trichlorofluoromethane	20.0	18.7	93.5		66.5	133.5
Vinyl Chloride	20.0	18.8	93.8		68.5	131.5

Method: 602

Filename : 1072507/024r

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	18.2	91.0		77.0	123.0
Chlorobenzene	20.0	18.0	89.8		80.5	119.5
1,2-Dichlorobenzene	40.0	35.2	88.1		68.0	132.0
1,3-Dichlorobenzene	20.0	17.8	88.9		72.5	127.5
1,4-Dichlorobenzene	40.0	35.6	89.0		69.5	130.5
• Diisopropyl ether	20.0	17.6	88.2		43.1	156.9
Ethylbenzene	20.0	18.5	92.7		63.0	137.0
• MTBE	40.0	35.0	87.4		46.8	153.2
Toluene	20.0	18.2	91.1		77.5	127.0
• m,p-Xylene	40.0	37.0	92.6		11.2	188.8
• o-Xylene	40.0	36.5	91.3		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072507/026F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	7.7	77.3		42	172
Bromoform	10.0	7.9	78.8		13	159
Bromomethane	10.0	9.9	99.2		0	144
Carbon tetrachloride	20.0	17.0	85.1		43	143
Chlorobenzene	10.0	8.4	83.7		38	150
Chloroethane	10.0	9.8	98.1		46	137
Chloroform	10.0	8.3	82.8		49	133
Chloromethane	10.0	10.5	104.7		0	193
Dibromochloromethane	10.0	8.2	81.8		24	191
• 1,2-Dibromoethane	10.0	8.0	79.9		0	206
1,2-Dichlorobenzene	10.0	8.1	81.4		0	208
1,3-Dichlorobenzene	10.0	8.2	82.1		7	187
1,4-Dichlorobenzene	10.0	8.2	81.6		42	143
1,1-Dichloroethane	10.0	8.2	81.8		47	132
1,2-Dichloroethane	10.0	8.1	81.2		51	147
1,1-Dichloroethene	10.0	8.0	80.1		28	167
• cis-1,2-Dichloroethene	20.0	17.2	86.0		19	181
trans-1,2-Dichloroethene	10.0	8.3	83.2		38	155
1,2-Dichloropropane	10.0	8.8	87.6		44	156
cis-1,3-Dichloropropene	10.0	7.8	78.1		22	178
trans-1,3-Dichloropropene	10.0	8.0	79.6		22	178
Methylene Chloride	10.0	7.9	79.4		25	162
1,1,2,2-Tetrachloroethane	20.0	24.3	121.4		8	184
Tetrachloroethane	10.0	8.4	84.0		26	162
1,1,1-Trichloroethane	10.0	8.2	82.4		41	138
1,1,2-Trichloroethane	10.0	8.2	81.9		39	136
Trichloroethene	10.0	8.2	81.6		35	146
Trichlorofluoromethane	10.0	9.5	95.4		21	156
Vinyl Chloride	10.0	10.1	101.0		28	163

Method: 602

Filename : 1072507/026r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	8.4	83.6	39	150
Chlorobenzene	10.0	8.3	82.6	55	135
1,2-Dichlorobenzene	20.0	16.4	82.2	37	154
1,3-Dichlorobenzene	10.0	8.3	82.6	50	141
1,4-Dichlorobenzene	20.0	16.7	83.7	42	143
• Diisopropyl ether	10.0	8.1	81.0	30	170
Ethylbenzene	10.0	8.5	85.2	32	160
• MTBE	20.0	15.9	79.7	35	165
Toluene	10.0	8.4	84.3	46	148
• m,p-Xylene	20.0	16.9	84.3	0	239
• o-Xylene	20.0	16.8	83.8	36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1072407/017F::1072407/017R

MS : 1072407/019F::1072407/019R

MSD : 1072407/020F::1072407/020R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	9.7	9.5	97	95	42	172
Bromoform	10.0	ND	9.8	9.6	98	96	13	159
Bromomethane	10.0	ND	9.4	10.8	87	102	D	144
Carbon tetrachloride	20.0	ND	20.3	20.4	102	102	43	143
Chlorobenzene	10.0	ND	10.1	9.9	101	99	38	150
Chloroethane	10.0	ND	9.9	10.9	99	109	46	137
Chloroform	10.0	ND	10.0	10.0	102	102	49	133
Chloromethane	10.0	ND	10.8	11.8	103	113	D	193
Dibromochloromethane	10.0	ND	9.9	9.8	99	98	24	191
1,2-Dibromoethane	10.0	ND	10.1	9.7	101	97	D	206
1,2-Dichlorobenzene	10.0	ND	9.8	9.9	98	99	D	208
1,3-Dichlorobenzene	10.0	ND	9.8	9.9	98	99	7	187
1,4-Dichlorobenzene	10.0	ND	9.9	9.7	99	97	42	143
1,1-Dichloroethane	10.0	ND	10.2	9.9	102	99	47	132
1,2-Dichloroethane	10.0	ND	9.9	9.7	99	97	51	147
1,1-Dichloroethene	10.0	ND	10.0	9.6	100	96	28	167
cis-1,2-Dichloroethene	20.0	ND	21.2	21.1	108	107	19	181
trans-1,2-Dichloroethene	10.0	ND	10.0	9.9	102	101	38	155
1,2-Dichloropropane	10.0	1.16	10.7	10.5	95	93	44	156
cis-1,3-Dichloropropene	10.0	ND	9.5	9.4	95	94	22	178
trans-1,3-Dichloropropene	10.0	ND	9.4	9.5	94	95	22	178
Methylene Chloride	10.0	ND	10.2	10.2	106	105	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	29.2	29.1	146	145	8	184
Tetrachloroethane	20.0	ND	20.3	20.3	104	104	26	162
1,1,1-Trichloroethane	10.0	ND	10.1	10.1	101	101	41	138
1,1,2-Trichloroethane	10.0	ND	9.6	9.7	96	97	39	136
Trichloroethene	10.0	6.90	17.3	17.2	104	103	35	146
Trichlorofluoromethane	10.0	ND	9.7	10.8	97	108	21	156
Vinyl Chloride	10.0	ND	10.0	11.2	97	109	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.2	10.0	102	100	39	150
Chlorobenzene	10.0	ND	10.0	9.9	100	99	55	135
1,2-Dichlorobenzene	10.0	ND	19.9	19.5	206 +	202 +	37	154
1,3-Dichlorobenzene	10.0	ND	9.9	9.9	99	99	50	141
1,4-Dichlorobenzene	20.0	ND	20.1	19.9	106	105	42	143
Diisopropyl ether	10.0	ND	9.9	9.7	99	97	30	170
Ethylbenzene	10.0	ND	10.4	10.3	104	103	32	160
MTBE	20.0	ND	19.4	19.0	97	95	35	165
Toluene	10.0	ND	10.2	10.1	102	101	46	148
m,p-Xylene	20.0	ND	20.5	20.4	109	109	D	239
o-Xylene	20.0	ND	20.3	20.2	108	108	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA = Spike Added

Summary Results for QC Check

Method : 601

Filename : 1072407/006F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	17.8	88.8		76.0	124.0
Bromoform	20.0	18.1	90.3		73.5	126.5
Bromomethane	20.0	19.1	95.6		58.5	141.5
Carbon tetrachloride	40.0	36.9	92.3		68.5	131.5
Chlorobenzene	20.0	18.2	91.0		72.0	128.0
Chloroethane	20.0	19.0	95.0		77.0	123.0
Chloroform	20.0	18.5	92.3		75.0	125.0
Chloromethane	20.0	19.7	98.6		59.5	140.5
Dibromochloromethane	20.0	18.3	91.6		65.5	134.5
• 1,2-Dibromoethane	20.0	18.6	92.8		13.6	186.4
1,2-Dichlorobenzene	20.0	17.9	89.6		70.0	130.0
1,3-Dichlorobenzene	20.0	18.1	90.7		49.5	150.5
1,4-Dichlorobenzene	20.0	18.2	91.0		69.5	130.5
1,1-Dichloroethane	20.0	18.8	93.8		84.0	116.0
1,2-Dichloroethane	20.0	18.4	92.2		71.5	128.5
1,1-Dichloroethene	20.0	18.3	91.5		63.0	137.0
• cis-1,2-Dichloroethene	40.0	40.2	100.5		34.4	180.6
trans-1,2-Dichloroethene	20.0	18.4	91.8		64.0	136.0
1,2-Dichloropropane	20.0	18.4	91.8		74.0	126.0
cis-1,3-Dichloropropene	20.0	18.0	90.1		64.0	136.0
trans-1,3-Dichloropropene	20.0	18.3	91.3		64.0	136.0
Methylene Chloride	20.0	18.6	92.8		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	53.9	89.8		49.0	151.0
Tetrachloroethene	40.0	37.0	92.5		70.0	130.0
1,1,1-Trichloroethane	20.0	18.6	92.9		71.0	129.0
1,1,2-Trichloroethane	20.0	18.1	90.5		78.5	121.5
Trichloroethene	20.0	18.4	92.1		77.0	123.0
Trichlorofluoromethane	20.0	18.5	92.7		66.5	133.5
Vinyl Chloride	20.0	19.0	95.1		68.5	131.5

Method: 602

Filename : 1072407/006r

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	19.2	95.8		77.0	123.0
Chlorobenzene	20.0	18.8	94.0		80.5	119.5
1,2-Dichlorobenzene	40.0	36.8	92.1		68.0	132.0
1,3-Dichlorobenzene	20.0	18.5	92.6		72.5	127.5
1,4-Dichlorobenzene	40.0	37.2	93.1		69.5	130.5
• Diisopropyl ether	20.0	18.6	93.2		43.1	156.9
Ethylbenzene	20.0	19.4	97.0		63.0	137.0
• MTBE	40.0	37.0	92.6		46.8	153.2
Toluene	20.0	19.1	95.6		77.5	127.0
• m,p-Xylene	40.0	38.6	96.6		11.2	188.8
• o-Xylene	40.0	38.1	95.2		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072407/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	8.1	80.9		42	172
Bromoform	10.0	7.9	79.2		13	159
Bromomethane	10.0	9.3	92.5		0	144
Carbon tetrachloride	20.0	18.0	90.0		43	143
Chlorobenzene	10.0	8.8	87.9		38	150
Chloroethane	10.0	9.4	93.7		46	137
Chloroform	10.0	8.9	89.2		49	133
Chloromethane	10.0	10.0	100.0		0	193
Dibromochloromethane	10.0	8.3	83.3		24	191
1,2-Dibromoethane	10.0	8.1	81.4		0	206
1,2-Dichlorobenzene	10.0	8.5	85.2		0	208
1,3-Dichlorobenzene	10.0	8.7	87.1		7	187
1,4-Dichlorobenzene	10.0	8.6	86.4		42	143
1,1-Dichloroethane	10.0	8.9	89.2		47	132
1,2-Dichloroethane	10.0	8.3	82.7		51	147
1,1-Dichloroethene	10.0	8.6	86.0		28	167
cis-1,2-Dichloroethene	20.0	19.0	94.9		19	181
trans-1,2-Dichloroethene	10.0	9.0	90.2		38	155
1,2-Dichloropropane	10.0	9.2	91.8		44	156
cis-1,3-Dichloropropene	10.0	8.2	81.9		22	178
trans-1,3-Dichloropropene	10.0	8.2	81.8		22	178
Methylene Chloride	10.0	11.3	112.9		25	162
1,1,2,2-Tetrachloroethane	20.0	24.3	121.3		8	184
Tetrachloroethane	10.0	9.1	90.9		26	162
1,1,1-Trichloroethane	10.0	8.9	88.5		41	138
1,1,2-Trichloroethane	10.0	8.4	83.6		39	136
Trichloroethene	10.0	8.8	87.8		35	146
Trichlorofluoromethane	10.0	9.0	89.9		21	156
Vinyl Chloride	10.0	9.7	97.2		28	163

Method: 602

Filename : 1072407/004r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	8.6	85.9	39	150
Chlorobenzene	10.0	8.4	84.3	55	135
1,2-Dichlorobenzene	20.0	16.9	84.4	37	154
1,3-Dichlorobenzene	10.0	8.5	84.7	50	141
1,4-Dichlorobenzene	20.0	16.6	82.9	42	143
Diisopropyl ether	10.0	8.0	80.1	30	170
Ethylbenzene	10.0	8.7	87.3	32	160
MTBE	20.0	16.1	80.6	35	165
Toluene	10.0	8.7	86.7	46	148
m,p-Xylene	20.0	17.3	86.4	0	239
o-Xylene	20.0	17.1	85.4	36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1073107/015F::1073107/015R

MS : 1073107/017F::1073107/017R

MSD : 1073107/018F::1073107/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	9.4	8.5	93	84	42	172
Bromoform	10.0	ND	9.6	8.8	96	88	13	159
Bromomethane	10.0	ND	8.6	9.6	86	96	D	144
Carbon tetrachloride	20.0	ND	19.8	19.1	99	95	43	143
Chlorobenzene	10.0	ND	9.4	9.0	94	90	38	150
Chloroethane	10.0	ND	8.6	9.5	86	95	46	137
Chloroform	10.0	ND	9.9	9.4	99	94	49	133
Chloromethane	10.0	ND	10.0	10.7	95	102	D	193
Dibromochloromethane	10.0	ND	9.5	9.1	95	91	24	191
1,2-Dibromoethane	10.0	ND	9.7	8.8	97	88	D	206
1,2-Dichlorobenzene	10.0	ND	10.0	9.3	100	93	D	208
1,3-Dichlorobenzene	10.0	ND	9.6	9.3	96	93	7	187
1,4-Dichlorobenzene	10.0	ND	9.9	9.4	99	94	42	143
1,1-Dichloroethane	10.0	ND	9.7	9.1	97	91	47	132
1,2-Dichloroethane	10.0	ND	9.8	9.1	98	91	51	147
1,1-Dichloroethene	10.0	ND	9.4	8.7	94	87	28	167
cis-1,2-Dichloroethene	20.0	ND	21.2	20.1	106	100	19	181
trans-1,2-Dichloroethene	10.0	ND	9.7	9.1	97	91	38	155
1,2-Dichloropropane	10.0	ND	10.0	9.3	94	87	44	156
cis-1,3-Dichloropropene	10.0	ND	9.5	8.7	95	87	22	178
trans-1,3-Dichloropropene	10.0	ND	9.3	8.9	93	89	22	178
Methylene Chloride	10.0	ND	9.2	8.7	101	97	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	29.7	28.2	149	141	8	184
Tetrachloroethane	20.0	ND	19.9	18.7	103	96	26	162
1,1,1-Trichloroethane	10.0	ND	9.8	9.3	98	93	41	138
1,1,2-Trichloroethane	10.0	ND	9.8	9.3	98	93	39	136
Trichloroethene	10.0	ND	9.8	9.1	98	91	35	146
Trichlorofluoromethane	10.0	ND	8.6	9.3	86	93	21	156
Vinyl Chloride	10.0	ND	8.6	9.9	82	95	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.7	10.3	107	103	39	150
Chlorobenzene	10.0	ND	10.0	9.5	100	95	55	135
1,2-Dichlorobenzene	20.0	ND	20.6	19.8	104	101	37	154
1,3-Dichlorobenzene	10.0	ND	10.1	9.8	106	103	50	141
1,4-Dichlorobenzene	20.0	ND	19.5	18.8	93	89	42	143
Diisopropyl ether	10.0	ND	10.7	10.1	111	105	30	170
Ethylbenzene	10.0	1.5	12.4	12.0	109	105	32	160
MTBE	20.0	ND	19.2	18.5	102	98	35	165
Toluene	10.0	17.8	27.5	27.2	97	95	46	148
m,p-Xylene	20.0	9.8	31.4	30.6	108	104	D	239
o-Xylene	20.0	3.9	25.4	24.6	108	104	36	164

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1073107/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	9.6	96.0		42	172
Bromoform	10.0	9.5	94.9		13	159
Bromomethane	10.0	10.6	106.1		0	144
Carbon tetrachloride	20.0	20.6	102.8		43	143
Chlorobenzene	10.0	10.0	100.0		38	150
Chloroethane	10.0	10.6	106.5		46	137
Chloroform	10.0	10.0	100.5		49	133
Chloromethane	10.0	11.5	114.8		0	193
Dibromochloromethane	10.0	9.7	96.8		24	191
1,2-Dibromoethane	10.0	9.6	96.3		0	206
1,2-Dichlorobenzene	10.0	10.1	101.2		0	208
1,3-Dichlorobenzene	10.0	10.3	102.7		7	187
1,4-Dichlorobenzene	10.0	10.1	101.0		42	143
1,1-Dichloroethane	10.0	10.1	100.9		47	132
1,2-Dichloroethane	10.0	10.0	99.7		51	147
1,1-Dichloroethene	10.0	9.9	98.9		28	167
cis-1,2-Dichloroethene	20.0	22.0	110.0		19	181
trans-1,2-Dichloroethene	10.0	10.0	100.2		38	155
1,2-Dichloropropane	10.0	10.4	103.7		44	156
cis-1,3-Dichloropropene	10.0	9.8	97.8		22	178
trans-1,3-Dichloropropene	10.0	9.7	97.3		22	178
Methylene Chloride	10.0	9.2	92.0		25	162
1,1,2,2-Tetrachloroethane	30.0	29.7	98.9		8	184
Tetrachloroethane	10.0	10.4	104.5		26	162
1,1,1-Trichloroethane	10.0	10.0	100.2		41	138
1,1,2-Trichloroethane	10.0	10.0	99.8		39	136
Trichloroethene	10.0	10.1	100.8		35	146
Trichlorofluoromethane	10.0	10.6	106.2		21	156
Vinyl Chloride	10.0	10.9	109.1		28	163

Method: 602

Filename : 1073107/004r

Compound	SA	Result	Rec		LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	10.0	10.4	103.7		39	150
Chlorobenzene	10.0	10.4	104.3		55	135
1,2-Dichlorobenzene	20.0	21.3	106.7		37	154
1,3-Dichlorobenzene	10.0	10.7	106.6		50	141
1,4-Dichlorobenzene	20.0	21.6	108.0		42	143
Diisopropyl ether	10.0	10.0	99.9		30	170
Ethylbenzene	10.0	10.9	109.0		32	160
MTBE	20.0	19.7	98.4		35	165
Toluene	10.0	10.6	106.0		46	148
m,p-Xylene	20.0	21.8	109.2		0	239
o-Xylene	20.0	21.6	108.0		36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1072807/015F::1072807/015R

MS : 1072807/017F::1072807/017R

MSD : 1072807/018F::1072807/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	10.2	9.3	100	92	42	172
Bromoform	10.0	ND	10.2	9.4	102	94	13	159
Bromomethane	10.0	ND	10.6	9.3	106	93	D	144
Carbon tetrachloride	20.0	ND	22.1	20.3	110	102	43	143
Chlorobenzene	10.0	ND	10.4	9.7	104	97	38	150
Chloroethane	10.0	ND	10.3	9.6	103	96	46	137
Chloroform	10.0	ND	10.7	9.9	107	99	49	133
Chloromethane	10.0	ND	11.6	10.8	112	103	D	193
Dibromochloromethane	10.0	ND	10.4	9.7	104	97	24	191
• 1,2-Dibromoethane	10.0	ND	10.2	9.7	102	97	D	206
1,2-Dichlorobenzene	10.0	ND	10.5	9.7	105	97	D	208
1,3-Dichlorobenzene	10.0	ND	10.7	9.9	107	99	7	187
1,4-Dichlorobenzene	10.0	ND	10.5	9.8	105	98	42	143
1,1-Dichloroethane	10.0	ND	10.7	9.8	107	98	47	132
1,2-Dichloroethane	10.0	ND	10.8	9.8	108	98	51	147
1,1-Dichloroethene	10.0	ND	10.3	9.7	103	97	28	167
• cis-1,2-Dichloroethene	20.0	ND	23.3	21.2	116	106	19	181
trans-1,2-Dichloroethene	10.0	ND	10.6	10.0	106	100	38	155
1,2-Dichloropropane	10.0	ND	11.1	10.3	105	97	44	156
cis-1,3-Dichloropropene	10.0	ND	10.2	9.4	102	94	22	178
trans-1,3-Dichloropropene	10.0	ND	10.1	9.5	101	95	22	178
Methylene Chloride	10.0	ND	10.5	10.1	111	107	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	31.8	30.2	159	151	8	184
Tetrachloroethane	20.0	ND	21.9	20.6	113	106	26	162
1,1,1-Trichloroethane	10.0	ND	10.8	9.9	108	99	41	138
1,1,2-Trichloroethane	10.0	ND	10.8	10.0	108	100	39	136
Trichloroethene	10.0	ND	10.8	10.0	108	101	35	146
Trichlorofluoromethane	10.0	ND	10.6	9.3	106	93	21	156
Vinyl Chloride	10.0	ND	10.7	9.5	104	92	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	1.4	12.9	12.2	115	108	39	150
Chlorobenzene	10.0	ND	11.0	10.1	115	107	55	135
1,2-Dichlorobenzene	20.0	1.2	23.7	21.9	113	104	37	154
1,3-Dichlorobenzene	10.0	ND	11.2	10.4	115	107	50	141
1,4-Dichlorobenzene	20.0	5.8	21.1	19.6	77	69	42	143
• Diisopropyl ether	10.0	ND	15.1	14.4	151	144	30	170
Ethylbenzene	10.0	6.3	18.2	17.6	119	112	32	160
• MTBE	20.0	ND	21.7	20.2	113	106	35	165
Toluene	10.0	57.4	67.3	68.7	99	113	46	148
• m,p-Xylene	20.0	34.3	56.9	56.3	113	110	D	239
• o-Xylene	20.0	15.5	38.7	37.4	116	110	36	164

Flags :

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

Summary Results for QC Check

Method : 601

Filename : 1072807/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	16.6	83.0		76.0	124.0
Bromoform	20.0	17.0	85.0		73.5	126.5
Bromomethane	20.0	16.8	84.1		58.5	141.5
Carbon tetrachloride	40.0	35.0	87.5		68.5	131.5
Chlorobenzene	20.0	17.5	87.5		72.0	128.0
Chloroethane	20.0	16.2	81.1		77.0	123.0
Chloroform	20.0	17.3	86.7		75.0	125.0
Chloromethane	20.0	16.7	83.7		59.5	140.5
Dibromochloromethane	20.0	17.5	87.6		65.5	134.5
1,2-Dibromoethane	20.0	17.6	88.1		13.6	186.4
1,2-Dichlorobenzene	20.0	17.2	86.0		70.0	130.0
1,3-Dichlorobenzene	20.0	17.5	87.5		49.5	150.5
1,4-Dichlorobenzene	20.0	17.2	86.1		69.5	130.5
1,1-Dichloroethane	20.0	17.6	88.2		84.0	116.0
1,2-Dichloroethane	20.0	17.0	84.8		71.5	128.5
1,1-Dichloroethene	20.0	16.8	84.1		63.0	137.0
cis-1,2-Dichloroethene	40.0	38.3	95.6		34.4	180.6
trans-1,2-Dichloroethene	20.0	17.4	87.1		64.0	136.0
1,2-Dichloropropane	20.0	17.5	87.4		74.0	126.0
cis-1,3-Dichloropropene	20.0	17.4	87.0		64.0	136.0
trans-1,3-Dichloropropene	20.0	17.4	86.8		64.0	136.0
Methylene Chloride	20.0	16.6	83.2		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	52.6	87.7		49.0	151.0
Tetrachloroethene	30.0	35.1	116.9		70.0	130.0
1,1,1-Trichloroethane	20.0	17.6	88.0		71.0	129.0
1,1,2-Trichloroethane	20.0	16.8	84.1		78.5	121.5
Trichloroethene	20.0	17.3	86.6		77.0	123.0
Trichlorofluoromethane	20.0	16.4	81.9		66.5	133.5
Vinyl Chloride	20.0	16.7	83.3		68.5	131.5

Method: 602

Filename : 1072807/002r

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	18.5	92.3		77.0	123.0
Chlorobenzene	20.0	18.3	91.4		80.5	119.5
1,2-Dichlorobenzene	40.0	36.8	92.0		68.0	132.0
1,3-Dichlorobenzene	20.0	18.3	91.5		72.5	127.5
1,4-Dichlorobenzene	40.0	36.8	92.1		69.5	130.5
Diisopropyl ether	20.0	18.0	90.0		43.1	156.9
Ethylbenzene	20.0	18.9	94.5		63.0	137.0
MTBE	40.0	35.5	88.8		46.8	153.2
Toluene	20.0	18.6	93.2		77.5	127.0
m,p-Xylene	40.0	37.8	94.4		11.2	188.8
o-Xylene	40.0	37.2	92.9		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1072807/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	9.3	93.2		42	172
Bromoform	10.0	9.4	93.9		13	159
Bromomethane	10.0	11.4	113.9		0	144
Carbon tetrachloride	20.0	19.7	98.7		43	143
Chlorobenzene	10.0	9.6	96.3		38	150
Chloroethane	10.0	11.0	110.2		46	137
Chloroform	10.0	9.5	94.8		49	133
Chloromethane	10.0	10.9	108.8		0	193
Dibromochloromethane	10.0	9.5	94.9		24	191
1,2-Dibromoethane	10.0	9.7	96.7		0	206
1,2-Dichlorobenzene	10.0	9.4	94.5		0	208
1,3-Dichlorobenzene	10.0	9.5	95.4		7	187
1,4-Dichlorobenzene	10.0	9.8	97.7		42	143
1,1-Dichloroethane	10.0	9.6	96.0		47	132
1,2-Dichloroethane	10.0	9.4	93.6		51	147
1,1-Dichloroethene	10.0	9.3	92.6		28	167
cis-1,2-Dichloroethene	20.0	21.1	105.4		19	181
trans-1,2-Dichloroethene	10.0	9.5	94.9		38	155
1,2-Dichloropropane	10.0	9.8	97.9		44	156
cis-1,3-Dichloropropene	10.0	9.2	92.4		22	178
trans-1,3-Dichloropropene	10.0	9.4	93.9		22	178
Methylene Chloride	10.0	8.5	85.3		25	162
1,1,2,2-Tetrachloroethane	30.0	28.5	95.2		8	184
Tetrachloroethane	10.0	9.7	97.5		26	162
1,1,1-Trichloroethane	10.0	9.6	96.1		41	138
1,1,2-Trichloroethane	10.0	9.5	95.3		39	136
Trichloroethene	10.0	9.6	95.9		35	146
Trichlorofluoromethane	10.0	11.0	109.8		21	156
Vinyl Chloride	10.0	11.2	112.5		28	163

Method: 602

Filename : 1072807/004r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.8	98.0	39	150
Chlorobenzene	10.0	9.7	97.2	55	135
1,2-Dichlorobenzene	20.0	19.7	98.3	37	154
1,3-Dichlorobenzene	10.0	9.8	97.7	50	141
1,4-Dichlorobenzene	20.0	19.6	97.8	42	143
Diisopropyl ether	10.0	9.6	95.9	30	170
Ethylbenzene	10.0	10.0	100.4	32	160
MTBE	20.0	18.9	94.4	35	165
Toluene	10.0	9.9	98.7	46	148
m,p-Xylene	20.0	20.0	100.2	0	239
o-Xylene	20.0	19.7	98.5	36	164

Flags :

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

CLIENT: Sovereign Consulting Inc	PHONE NO: (910) 358-0555	SITE/PWSID#: 81dg 645	E-MAIL: cmurray@soucon.com	FAX NO: (757) 456-5095	QUOTE #
CONTACT: Kurt Meckle					
PROJECT: NV019					
REPORTS TO: Chris Murray					
INVOICE TO: C. Murray					
425 Oak Mars Crescent Suite 1					
VA Beach VA 23461					

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
335	AST645 - MW15	7/18/07	1117	GW
	AST645 - MW03	7/18/07	1132	GW
	AST645 - MW01	7/18/07	1257	GW
	AST645 - MW02	7/18/07	1403	GW
	AST645 - MW21	7/18/07	1440	GW
	AST645 - MW04	7/18/07	1507	GW
	AST645 - MW25	7/18/07	1545	GW
	AST645 - MW17	7/18/07	1610	GW
	AST645 - MW24	7/18/07	1639	GW
	AST645 - MW19	7/18/07	1727	GW

Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time	Shipping Carrier:	Samples Received Cold? (Circle) YES NO
<i>[Signature]</i>	7/19/07	1730	<i>[Signature]</i>	7/19/07	1830	Shipping Ticket No:	Temperature (C): 3-20
Relinquished By: (3)	Date	Time	Received By:	Date	Time	Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
<i>[Signature]</i>	7/20/07	1330	<i>[Signature]</i>	7/20/07	1330	500 Format	
Relinquished By: (3)	Date	Time	Received By:	Date	Time	Special Instructions:	
<i>[Signature]</i>						email results "500 Format" to cmurray@searcon.com / alicia@searcon.com	
Relinquished By: (4)	Date	Time	Received By:	Date	Time	Requested Turnaround Time:	
						☐ RUSH ☒ STD	



- Alaska
- Ohio
- New Jersey
- West Virginia

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☐ 200 W. Potter Drive	Anchorage, AK 99518	Tel: (907) 562-2343	Fax: (907) 561-5301	White - Retained by Lab Yellow - Returned with Report
☐ 5500 Business Drive	Wilmington, NC 28405	Tel: (910) 350-1903	Fax: (910) 350-1557	
☐ 1270 Greenbrier Street	Charleston, WV 25311	Tel: (304) 346-0725	Fax: (304) 346-0761	



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-121
Client Project: NV018-001-01

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.


for Laboratory Director
J. Patrick Weaver

3/23/07
Date



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.

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: UST645TB-SB01

Client Project ID: NV018-001-01

Lab Sample ID: G650-121-1

Lab Project ID: G650-121

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 10:35

Date Received: 8/21/2007

Matrix: Soil

Solids 71.55

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.17	5035	1	08/22/07
Diesel Range Organics	BQL	8.61	3541	1	08/22/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: UST645TB-SB02

Client Project ID: NV018-001-01

Lab Sample ID: G650-121-2

Lab Project ID: G650-121

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 11:20

Date Received: 8/21/2007

Matrix: Soil

Solids 67.79

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	94.4	10.4	5035	2	08/22/07
Diesel Range Organics	BQL	9.05	3541	1	08/22/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: UST645TB-SB03

Client Project ID: NV018-001-01

Lab Sample ID: G650-121-3

Lab Project ID: G650-121

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 11:45

Date Received: 8/21/2007

Matrix: Soil

Solids 40.07

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	13.6	5035	1	08/22/07
Diesel Range Organics	BQL	15.2	3541	1	08/22/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: UST645TB-SB04

Client Project ID: NV018-001-01

Lab Sample ID: G650-121-4

Lab Project ID: G650-121

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 12:15

Date Received: 8/21/2007

Matrix: Soil

Solids 69.34

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	8.23	5035	1	08/21/07
Diesel Range Organics	BQL	8.50	3541	1	08/22/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4082107A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected:
Date Received:
Matrix: Soil
Solids 100.00

Analyte	Result mg/kg	RL mg/kg	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.00	5035	1	08/21/07

Comments:

Flags:

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC

Lab Sample ID: g211-1999-12b

LCS ID: LCS4082107A / VP082107

Analyzed By: DVG

Matrix: Soil

Solids 78.81

MS/MSD

Analyte	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC % (70-130)	RPD %
GRO	BQL	27.1	26.7	98.5	27.1	27.3	101	2.51

LCS

Analyte	Spiked MG/KG	Result MG/KG	REC %	LIMITS Lower Upper
GRO	40	38	95.3	70 130

Comments:Reviewed By: 

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4082207A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected:
Date Received:
Matrix: Soil
Solids 100.00

Analyte	Result mg/kg	RL mg/kg	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.00	5035	1	08/22/07

Comments:

Flags:

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC

Lab Sample ID: g510-530-1a

LCS ID: LCS4082207A / VP082207

Analyzed By: DVG

Matrix: Soil

Solids 90.64

MS/MSD

Analyte	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC % (70-130)	RPD %
GRO	BQL	43.7	43.8	100	43.7	47.8	109	8.61

LCS

Analyte	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
GRO	40	37	92	70	130

Comments:Reviewed By: 

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8946

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/23/07

Comments:

Flags:

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC
Lab Sample ID: G161-2642-3F
Batch ID: 8946

Analyzed By: BWS
Matrix: Soil
Solids 85.81

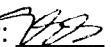
MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	12.2	72.8	58.9	64.1	72	57.4	62.8	2.05

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	56.9	91	40	140

Comments:

Reviewed By: 

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8947

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/23/07

Comments:

Flags:

Reviewed By: 

TPH.XLS

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC

Lab Sample ID: G161-2641-3J

Batch ID: 8947

Analyzed By: BWS

Matrix: Soil

Solids 84.56

MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	7.67	73.8	66.4	79.6	73	63.4	76.3	4.23

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	53.1	85	40	140

Comments:Reviewed By: 