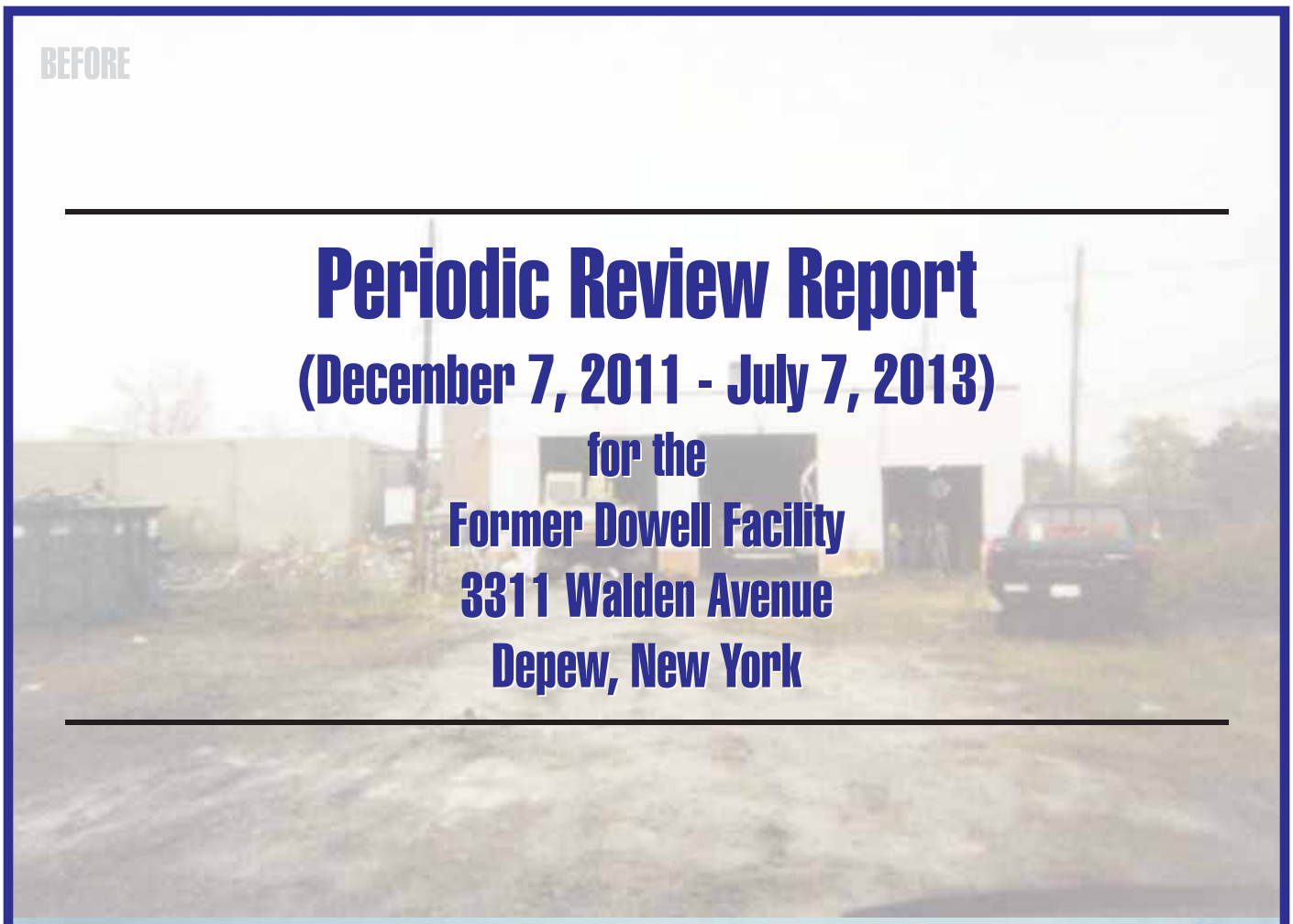


Periodic Review Report

(December 7, 2011 - July 7, 2013)

for the

Former Dowell Facility

3311 Walden Avenue

Depew, New York

prepared for:

Volunteers

Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

August 2013

G3957M

FORMER DOWELL FACILITY

3311 WALDEN AVENUE

DEPEW, NEW YORK

Periodic Review Report

(December 7, 2011 – July 7, 2013)

Prepared for:

VOLUNTEERS

DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION

DOWELL SCHLUMBERGER INCORPORATED

THE DOW CHEMICAL COMPANY

(VCA INDEX NO. B9-0586-00-10)

Prepared by:

URS CORPORATION

77 GOODELL STREET

BUFFALO, NEW YORK 14203

AUGUST 2013

EXECUTIVE SUMMARY

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) formerly operated a facility located to the east of Buffalo, New York at 3311 Walden Avenue in the Village of Depew. Former activities at the Facility included servicing industrial facilities and limited oil-field related projects. Operations at the site were discontinued in the late 1980's and it was decided to close the site permanently. As such, a series of site investigations was performed to determine the nature and extent of contamination present in the soils and/or groundwater associated with the site.

These investigations identified elevated levels of volatile organic compounds (VOCs) in both soil and groundwater at the site. Asbestos containing material (ACM) also was identified in several of the onsite buildings

The Volunteers subsequently entered into Voluntary Cleanup Agreement (VCA) # B9-0586-00-10, Site # V-00410-9 with the New York State Department of Environmental Conservation (NYSDEC) to remediate the site on February 26, 2001.

Commencing in October 2003, a remedial action was performed at the site that included asbestos abatement, building/structure demolition, contaminated soil excavation/disposal, monitoring well removal/installation and site restoration. The remedial work was completed in May 2004. No Engineering Controls were installed as part of the site remedy. However, a Declaration of Covenants and Restrictions granted to the NYSDEC was recorded with the Erie County Clerk June 22, 2005.

Following completion of the remedial action, a long-term monitoring program consisting of quarterly groundwater sampling of the on-site monitoring wells was instituted. A Final Remedial Action Report was prepared and submitted to the Department in September 2010. A Site Management Plan (SMP) also was prepared and submitted to Department in May 2011, and subsequently approved.

A Certificate of Completion for the site remediation was issued by the Department on December 7, 2011. Groundwater monitoring and site maintenance activities have been conducted since that time in accordance with the SMP.

This Periodic Review Report (PRR) presents a summary of the remedy performance during the period of December 7, 2011 to July 7, 2013. There were no areas of non-compliance during this period. The data indicates that the remedy continues to be effective; remaining site contamination continues to attenuate under existing conditions; and, no contamination migration offsite is occurring.

Based on the consistency of the data since the remedy was completed, it is recommended that the groundwater monitoring schedule in the SMP be revised to require a single annual sampling event. The results of the sampling would be submitted electronically to the Department annually. It is further recommended that submission of the Periodic Review Report be limited to every five years, unless there is a significant change in site conditions for the worse.

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1.0 SITE OVERVIEW

1.1 Site Location and Description

The Former Dowell Facility is located to the east of Buffalo, New York on Walden Avenue in the Village of Depew (Figure 1). The site is situated in a mixed residential and industrial/commercial area. Properties surrounding the site include Walden Avenue to the north, a CSX railroad yard to the south, a lumber yard and supply store (84 Lumber) to the east, and an industrial manufacturer (Buffalo Batt and Felt) to the west. A residential neighborhood is located across Walden Avenue to the north.

The site is relatively flat-lying with a gentle downward slope to the north – northwest toward Walden Avenue and covers approximately 1.78 acres. Maximum relief across the site (i.e., from south to north) is on the order of 4 feet. Surface water flows from south to north across the site. The site is presently inactive and all structures at the Facility have been demolished. The majority of the Facility is presently covered with gravel grass and small trees. The property is secured with a locking 6-foot high chain-link fence around the entire perimeter of the site.

1.2 Site History

Former activities at the Facility included servicing industrial facilities and limited oil-field related projects. Various industrial cleaning and oil-field chemicals were stored onsite and transferred into tank trucks for use at job sites. A former railroad siding, which has been removed, traversed the Facility from east to west. Structures on the site originally included: a two story office building; a one story office/maintenance shop; a large chemical storage warehouse building; an acid plant; a bulk cement plant; cement silos; an 8,000 gallon diesel aboveground storage tank (AST); a 1,000 gallon gasoline underground storage tank (UST) with dispenser; a mud separator; an oil/water separator and a hydrochloric acid AST. A water meter vault is located about mid-way along the northern property line (Figure 2).

Operations at the site were discontinued in the late 1980's and Dowell Schlumberger decided to close the site permanently. As such, a series of site investigations were performed to

determine the nature and extent of contamination present in the soils and/or groundwater associated with the site.

1.3 Nature and Extent of Contamination (Prior to Site Remedy)

Investigations conducted at the site following cessation of operations revealed that low-level concentrations of VOCs were present in shallow groundwater within fill materials beneath the northeast corner of the site, and in the north-central portion of the site, adjacent to the former transfer and chemical storage tank area.

Groundwater samples showed elevated levels of VOCs, consisting primarily of 1,1,1-TCA and 1,1-DCA in monitoring wells MW-03 and MW-06 and TCE, cis-1,2-DCE, and vinyl chloride in piezometer PZ-02 at levels which exceed the maximum concentration levels (MCL's) presented in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 (Figures 2 and 3).

Sediments in the sumps in the Former Maintenance Shop were contaminated with VOCs consisting of 1,1,1-TCA, 1,1-DCA, and tetrachloroethene (PCE) (Figure 4).

Subsurface soil samples collected from the Former Acid Plant and Former Chemical Storage Building area showed elevated levels of VOCs (1,1,1-TCA, trans-1,2-DCE) and trichloroethene (TCE). Soil/sediment analytical results are shown on Figures 4 and 5.

Asbestos containing material (ACM) was identified in several of the buildings.

1.4 Summary of Remedial Activities

A brief summary of remedial activities conducted at the site is presented below.

- In September 1989 one 1,000-gallon UST and its associated fuel dispenser, and one 8,000-gallon AST along with contaminated soils were removed.
- In July 1998 the former concrete Acid Plant revetment was removed; previously identified contaminated subsurface soil around the Former Acid Plant was excavated; the cement bulk plant and, other miscellaneous debris were removed. Approximately 500 tons of VOC-contaminated soils were excavated and disposed offsite.

- During the period of October 2003 and May 2004 remedial actions including asbestos abatement, building/structure demolition, contaminated soil excavation/disposal, monitoring well removal/installation and site restoration were completed. Approximately 4,610 tons of VOC-contaminated soils were excavated and disposed offsite.
- In October 2005 an additional monitoring well MW-7D was installed adjacent to MW-7S to monitor the Lower Till/Confined Bedrock Unit at this location.
- During the period of June 2-4, 2009, six injection wells were installed in an arc approximately five feet up-gradient (i.e. south) of monitoring wells MW-06S and MW-06D Following installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and concurrently inject a solution of eight percent (8%) hydrogen peroxide and sodium persulfate into the six injection wells was implemented. During the period of August 6 to November 24, 2009 a total of 376.6 gallons of hydrogen peroxide and sodium persulfate were injected.

2.0 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

2.1 Remedy Performance

The following sections provide an evaluation of the remedy performance and effectiveness since completion of the remedial action in May 2004 and the supplemental in-situ chemical oxidation (ISCO) injection performed in the fall of 2009. These are summarized by media.

2.1.1 Soil

As indicated on Figures 6 and 7, the confirmatory samples collected after completion of the Remedial Action indicate that there were no exceedances of the site specific soil cleanup objectives (SCOs) of 10 ppm total VOCs.

In December 2006 the NYSDEC promulgated new soil cleanup standards for use in site remediations. These are contained in 6NYCRR Part 375. The new SCOs are risk based and take into account the actual site usage. A comparison of the analytical results with the 6NYCRR Part 375 SCOs indicates that there were a few sample locations in the bottom of the excavated area (depth of 15 feet) that exceed the unrestricted and residential use SCOs. None of the sidewall and/or surface stockpile soil samples exceed the unrestricted or residential use SCOs, with the exception of sample CSP-3, which slightly exceeds the unrestricted SCOs.

None of the confirmatory samples exhibited VOC concentrations that exceeded the SCOs for restricted commercial uses.

2.1.2 Groundwater

In April 2008, an investigation was performed to determine if contaminants had migrated offsite. Groundwater samples were collected from three temporary piezometers (i.e. BH-01, BH-02 and BH-03) installed on the north (downgradient) side of Walden Avenue (Figure 8) and analyzed for Target Compound List (TCL) VOCs. No VOCs were detected.

As indicated above, groundwater monitoring has been conducted quarterly at the site since completion of the remedy in May 2004. The latest event was conducted on July 5, 2013. The program includes sampling of monitoring wells MW-1, MW-2, MW-4, MW-6S, MW-6D, MW-7S, MW-7D, and recovery well RW-1. The samples are analyzed for TCL VOCs. The results of the groundwater sampling are summarized in Table 1.

A comparison of the results with the SCGs indicated the following:

- No detectable VOCs have been observed at concentrations that exceed the SCGs at monitoring wells MW-01, MW-02, MW-04 and MW-07S since September of 2005 (almost 8 years).
- No detectable VOCs have been observed at concentrations that exceed the SCGs at monitoring well MW-07D since it was installed in November of 2005 (almost 8 years)
- VOCs consisting of 1,1-DCA and 1,1,1-TCA have been present at concentrations that exceeded the SCGs at monitoring well MW-06S in all 26 sampling events since completion of the remedy. Whereas, 1,1-DCE and 1,2-DCE have only been observed at concentrations that exceeded the SCGs in 19 of 26 and 4 of 26 events, respectively. In general, the number of detected parameters in MW-6S has decreased since remediation was completed. The historical range of concentrations during this period has remained relatively unchanged for the various parameters, although the concentrations of the detected parameters tend to fluctuate significantly between events, generally increasing in the spring and decreasing in the fall/winter.
- 1,1-DCA has been present at concentrations that exceeded the SCGs at monitoring well MW-06D in all 26 sampling events since completion of the remedy. Whereas, 1,1,1-TCA and 1,1-DCE have only been observed at concentrations that exceeded the SCGs in 17 of 26 and 4 of 26 events, respectively. In general, the number of detected parameters in MW-6D has remained the same, with the notable exception of an increase in the number and concentrations of chloroethane, a daughter product resulting from the natural

attenuation of 1,1,1-TCA and 1,1-DCA. The historical range of concentrations during this period has remained relatively unchanged for 1,1-DCA, 1,1,1-TCA and 1,1-DCE, although the concentrations of the detected parameters tend to fluctuate significantly between events, generally increasing in the spring and decreasing in the fall/winter.

- 1,1-DCA has been present at concentrations that exceeded the SCGs at recovery well RW-01 in all 19 sampling events since completion of the remedy. In general, the concentration of 1,1-DCA has remained relatively constant. Whereas, 1,1,1-TCA and chloroethane have only been observed at concentrations that exceeded the SCGs in 7 of 19 and 3 of 19 events, respectively. In general, the concentration of 1,1-DCA has shown a gradual decrease during this period.

2.2 Remedy Effectiveness

Based on the above discussion, it is concluded that the remedy has been effective:

- In removing soils with VOC concentrations that exceed the SCGs.
- Reducing VOC concentrations in groundwater to levels less than the SCGs, with the exception of MW-6S, MW-6D, and RW-01.
- Preventing the offsite migration of VOCs in groundwater (i.e., No exceedances in MW-7S and MW-7D which are located downgradient of MW-6S, MW-6D and RW-01. Additionally, no exceedances were observed in 2008 in the offsite sampling locations on the north side of Walden Ave.)

2.3 Remedy Protectiveness

The remedy has been protective of human health and the environment by reducing the VOC contamination identified in soil prior to remediation to below the applicable SCOs for commercial sites. Additionally, VOC concentrations in groundwater have been reduced to levels below the applicable SCGs with the exception of one area along the north side of the site (i.e. MW-6S/6D). Remaining contaminants in groundwater also have been contained onsite.

3.0 IC/EC PLAN COMPLIANCE

3.1 IC/EC Requirements

The site remedy does not rely on any engineering controls, such as air sparge/ soil vapor extraction systems or permeable reactive barriers to protect public health and the environment. There are, however, several Institutional Controls that have been implemented at the site. These include:

- Compliance with the Declaration of Covenants and Restrictions and the SMP by the Grantor and the Grantor's successors and assigns;
- Groundwater monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management of the Property must be reported at the frequency and in a manner defined in the SMP;

  To date, there have been no changes made to the ICs at the site. Additionally, all activities have been in compliance with the applicable requirements.

3.2 IC/EC Certification

The NYSDEC Institutional and Engineering Controls Certification Form has been completed and is contained in Appendix A.

4.0 MONITORING PLAN COMPLIANCE

4.1 Monitoring Plan Requirements

As outlined in the SMP, beginning after the Certificate of Completion is issued by the Department, quarterly monitoring of the performance of the remedy and overall reduction in on-site contamination will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH. The samples will be analyzed for VOCs only. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals

4.2 Monitoring Summary

During this period groundwater sampling was performed as follows:

• February 27, 2012	Quarterly	MW-6S/6D, -7S/7D
• July 5, 2012	Qtrly/Annual	MW-01, -02, -04, -6S/6D, 7S/7D
• September 27, 2012	Quarterly	MW-6S/6D, -7S/7D
• December 21, 2012	Quarterly	MW-6S/6D, -7S/7D
• April 9, 2013	Quarterly	MW-6S/6D, -7S/7D
• July 5, 2013	Qtrly/Annual	MW-01, -02, -04, -6S/6D, 7S/7D

Copies of the individual sampling reports are contained in Appendix B. A summary of the analytical results for all the sampling events conducted at the site is presented in Table 1. The monitoring well locations are shown on Figure 2.

4.3 Evaluation of Results

As indicated in Table 1, and as discussed in Section 2, no VOCs were observed at concentrations exceeding the SCGs in any of the monitoring wells, with the exception of MW-

6S/6D. This is consistent with historical results since implementation of the remedy was completed in May 2004.

Concentrations of VOCs in MW-6S/6D show cyclical fluctuations. However, the concentrations are within the historical range of concentrations. The latest duplicate sample collected from MW-6D indicates detectable levels of chloroethane and vinyl chloride, daughter products resulting from the natural attenuation of TCE and 1,1-DCA. This indicates that natural attenuation of contamination continues to occur onsite.

4.4 Monitoring Deficiencies

During the initial year of monitoring following issuance of the C of C, the quarterly sampling event scheduled for the spring of 2012 was inadvertently missed. However, considering the consistency of the results over the past several years, this omission is not considered to be significant to evaluation of the remedy.

4.5 Conclusions and Recommendations for Changes

4.5.1 Conclusions

Based on the monitoring conducted during this period it is concluded that:

- The groundwater results are consistent with historical results obtained at the site since the remedy was completed.
- Remaining groundwater contamination onsite is still limited to the area around MW-6S/6D.
- Groundwater contamination is contained onsite and is not migrating offsite.
- Natural attenuation of contaminants is continuing onsite.

4.5.2 Recommendations

Based on the consistency of the data over the several years since the remedy was completed, it is recommended that the groundwater monitoring schedule in the SMP be revised as follows:

- Monitoring wells MW-1, MW-2 and MW-4 will be sampled once every five years.
- Monitoring wells MW-6S/6D and MW-7S/7D will be sampled once annually. Sampling will be conducted in the spring one year and the fall the following year. The results of the sampling will be submitted electronically to the Department annually.
- All groundwater samples will be analyzed for VOCs.
- Groundwater elevations will be collected from all the monitoring wells and piezometers during the annual sampling event to confirm groundwater flow directions.

If the annual sampling results show a significant increase in contaminant concentrations, then an increased frequency of sampling in the impacted monitoring well(s) will be discussed and agreed with the Department.

5.0 OPERATION & MAINTENANCE (O&M) PLAN COMPLIANCE

5.1 O&M Plan Requirements

The site remedy does not rely on any mechanical systems, such as groundwater pump and treat or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

However, the SMP does require site-wide inspections to be conducted concurrent with the groundwater sampling events (i.e. quarterly for first 6 quarters).

5.2 O&M Summary

Site-wide inspections were conducted concurrently with each of the groundwater sampling events listed in Section 4.2 above. Copies of the applicable inspection forms are contained in Appendix C. These reports indicate no significant changes in the condition of the site since the remedy was completed, with the possible exception that the trees and other vegetation onsite have increased in size and density.

Additionally, during this period the following maintenance activities were completed:

- Grass between the perimeter fence and Walden Ave. was mowed periodically.
- A section of the perimeter fence along Walden Ave. was repaired due to damage from fallen tree branches following a wind storm.
- The rollers on the main entrance gate were repaired and oiled such that it could be opened/closed more easily.
- Trash accumulated in the grassy area between the perimeter fence and Walden Ave. was removed and disposed offsite.

6.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- The site is generally in overall compliance with the requirements of the SMP. The Institutional Controls are still in effect and unchanged; groundwater monitoring has been performed; and, O&M activities have been conducted, as necessary.
- Based on the monitoring results the remedy is effective in meeting the remedial objectives for the site. It is anticipated that contaminant levels observed in MW-6S/6D will decrease over time.

6.2 Recommendations

- Based on the consistency of the analytical results over the past several years since the remedy was completed, and the fact that natural attenuation is a slow, long-term process, it is recommended that the groundwater monitoring schedule in the SMP be revised to require that monitoring wells MW-1, MW-2 and MW-4 be sampled once every five years; and, that monitoring wells MW-6S/6D and MW-7S/7D be sampled once annually. The annual sampling will be conducted in the spring one year and the fall the following year. The results of the sampling will be submitted electronically to the Department annually.
- In the future, it is recommended that submission of the Periodic Review Report be limited to every five years, unless there is a significant change in site conditions for the worse. In this case a revised frequency for submission of the PRR would be discussed and agreed with the Department.

TABLES

Table 1
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	5	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	5	20	U	NS	3*	U	U	U	U
Acetone	UG/L	50	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	--	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	2	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	5	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	50	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	0.6	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	--	U	U	NS	NS	U	NS	NS	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	5	NS	NS	NS	U
Vinyl Chloride	UG/L	2	NS	NS	NS	U
Methylene Chloride	UG/L	5	NS	NS	NS	U
Acetone	UG/L	50	NS	NS	NS	U
1,1-Dichloroethene	UG/L	5	NS	NS	NS	U
1,1-Dichloroethane	UG/L	5	NS	NS	NS	U
1,2-Dichloroethene (total)	UG/L	5	NS	NS	NS	U
1,2-Dichloroethane	UG/L	0.6	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	5	NS	NS	NS	U
Total VOCs	UG/L	--	NS	NS	NS	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	50	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
Vinyl Chloride	UG/L	2	NS	NS	U	NS	NS	U	NS	NS	NS
Methylene Chloride	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
Acetone	UG/L	50	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethene	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethane	UG/L	0.6	NS	NS	U	NS	NS	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	5	NS	NS	U	NS	NS	U	NS	NS	NS
Total VOCs	UG/L	--	NS	NS	U	NS	NS	U	NS	NS	NS

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

(1) Samples collected for analysis by URS

(2) Split samples collected for analysis by NYSDEC

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Jul-13
Chloroethane	UG/L	5	U
Vinyl Chloride	UG/L	2	U
Methylene Chloride	UG/L	5	U
Acetone	UG/L	50	U
1,1-Dichloroethene	UG/L	5	U
1,1-Dichloroethane	UG/L	5	U
1,2-Dichloroethene (total)	UG/L	5	U
1,2-Dichloroethane	UG/L	0.6	U
1,1,1-Trichloroethane	UG/L	5	U
Total VOCs	UG/L	--	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	12	U	U	5*	U	U	2*	U
Acetone	UG/L	50	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	8
Total VOCs	UG/L	--	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Criteria[1]	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	--	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	2	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	5	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	50	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	5	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	0.6	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	5	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	--	U	U	NS	NS	U	NS	NS	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	5	NS	NS	NS	U
Vinyl Chloride	UG/L	2	NS	NS	NS	U
Methylene Chloride	UG/L	5	NS	NS	NS	U
Acetone	UG/L	50	NS	NS	NS	U
1,1-Dichloroethene	UG/L	5	NS	NS	NS	U
1,1-Dichloroethane	UG/L	5	NS	NS	NS	U
1,2-Dichloroethene (total)	UG/L	5	NS	NS	NS	U
1,2-Dichloroethane	UG/L	0.6	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	5	NS	NS	NS	U
Total VOCs	UG/L	--	NS	NS	NS	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	2	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	50	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	5	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	--	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Criteria[1]	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	5	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	5	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	5	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	--	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Criteria[1]	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	5	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	5	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	--	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Criteria[1]	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	5	U	U	U	U	120 J	150	430	220	720
Vinyl Chloride	UG/L	2	U	U	U	U	3.1	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	140	260	U	U	39	79	50 J	100 J	U
1,1-Dichloroethane	UG/L	5	2,000	440	9,900	16,000	11,000	5,500	12,000	7,900	13,000
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	9	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	270	480	310	670	280	250	390	390	300
Methyl tert-butyl ether	UG/L	10	U	U	U	U	0.80 J	U	U	U	U
Total VOCs	UG/L	--	2,410	1,160	10,210	16,670	11,455	5,979	12,870	8610	14,020

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

J = estimated value

E= Exceded the calibration range for that instrument

(1) Samples collected for analysis by URS

(2) Split samples collected for analysis by NYSDEC

* Qualified as non-detect due to blank concentration

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Apr-13	Jul-13
Chloroethane	UG/L	5	460	530
Vinyl Chloride	UG/L	2	U	U
Methylene Chloride	UG/L	5	U	U
Acetone	UG/L	50	U	U
1,1-Dichloroethene	UG/L	5	U	U
1,1-Dichloroethane	UG/L	5	9,500	12,000
1,2-Dichloroethene (total)	UG/L	5	U	U
1,2-Dichloroethane	UG/L	0.6	U	U
1,1,1-Trichloroethane	UG/L	5	260	240
Methyl tert-butyl ether	UG/L	10	U	U
Total VOCs	UG/L	--	10,220	12,770

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	2	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	50	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	--	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Criteria[1]	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	5	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	5	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	--	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Criteria[1]	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	--	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Criteria[1]	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	5	U	U	U	U	280	260	450	470	750
Vinyl Chloride	UG/L	2	U	U	U	U	6	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	0.70 J	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	80	U	U	U	U
1,1-Dichloroethane	UG/L	5	9,600	16,000	4,700	5,200	9,900	14,000	16,000	18,000	15,000
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	21	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	550	U	U	400	220	300	320	240
Methyl tert-butyl ether	UG/L	10	U	U	U	U	0.75 J	U	U	U	U
Total VOCs	UG/L	--	9,600	16,550	4,700	5,200	10,691	14,480	16,750	18,790	15,990

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

(1) Samples collected for analysis by URS

(2) Split samples collected for analysis by NYSDEC

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Apr-13	Jul-13	Jul-13 Dup
Chloroethane	UG/L	5	600	450	450
Vinyl Chloride	UG/L	2	U	U	6.2
Methylene Chloride	UG/L	5	U	U	0.82 J
Acetone	UG/L	50	U	U	U
Benzene	UG/L	1	U	U	0.48 J
1,1-Dichloroethene	UG/L	5	U	U	32
1,1-Dichloroethane	UG/L	5	15,000	13,000	12,000
1,2-Dichloroethene (total)	UG/L	5	U	U	13
1,2-Dichloroethane	UG/L	0.6	U	U	3.6
1,1,1-Trichloroethane	UG/L	5	180 J	U	180
Methyl tert-butyl ether	UG/L	10	U	U	0.92 J
Total VOCs	UG/L	--	15,780	13,450	12,687

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	2	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	50	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	--	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Criteria[1]	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	--	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	5	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	NS	U	U	U	U	U
Acetone	UG/L	50	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	5	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	--	U	U	NS	U	U	U	0.46 J	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	5	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U
Acetone	UG/L	50	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U
1,1-Dichloroethane	UG/L	5	1	1.3	1.2	1.1
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U
Total VOCs	UG/L	--	1	1.3	1.2	1.1

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	2	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	50	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	--	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Criteria[1]	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	5	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	5	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	50	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	--	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria[1]	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	5	NS	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	NS	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	NS	U	U	U	U	U	U	U	U
Acetone	UG/L	50	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	NS	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	NS	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	NS	U	U	U	U	U	U	U	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Jul-13
Chloroethane	UG/L	5	U
Vinyl Chloride	UG/L	2	U
Methylene Chloride	UG/L	5	U
Acetone	UG/L	50	U
1,1-Dichloroethene	UG/L	5	U
1,1-Dichloroethane	UG/L	5	U
1,2-Dichloroethene (total)	UG/L	5	U
1,2-Dichloroethane	UG/L	0.6	U
1,1,1-Trichloroethane	UG/L	5	U
Total VOCs	UG/L	--	U

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	2	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	50	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	0.6	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	5	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	--	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	--	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	3	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	--	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Criteria[1]	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	5	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	5	NI	NS	U	U	U	U	U	U
Acetone	UG/L	50	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	5	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	--	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	--	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	3	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	--	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Criteria[1]	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	5	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	U	U	U	U	U	U	U
Acetone	UG/L	50	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	0.6	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	--	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	--	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	3	U	U	U	U	U	U	U	U
Total VOCs	UG/L	--	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Criteria[1]	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	5	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	2	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	5	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	50	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	5	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	5	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	0.6	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	5	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	--	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	--	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	3	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	--	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 1
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Criteria[1]	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	5	NS	NS	NS	1.4
Vinyl Chloride	UG/L	2	NS	NS	NS	21
Methylene Chloride	UG/L	5	NS	NS	NS	U
Acetone	UG/L	50	NS	NS	NS	U
1,1-Dichloroethene	UG/L	5	NS	NS	NS	U
1,1-Dichloroethane	UG/L	5	NS	NS	NS	3.1
1,2-Dichloroethene (total)	UG/L	5	NS	NS	NS	11
1,2-Dichloroethane	UG/L	0.6	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	5	NS	NS	NS	U
Cyclohexane	UG/L	--	NS	NS	NS	0.19
Methylcyclohexane	UG/L	--	NS	NS	NS	U
1,2-Dichlorobenzene	UG/L	3	NS	NS	NS	1.6
Total VOCs	UG/L	--	NS	NS	NS	38.29

Notes:

[1] Criteria - NYSDEC Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (includes April 2000 Addendum). Class GA.

- Concentration exceeds applicable standards, criteria and guidance (SCG) values.

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

FIGURES

N



APPROXIMATE SCALE IN FEET

1000 0 1000

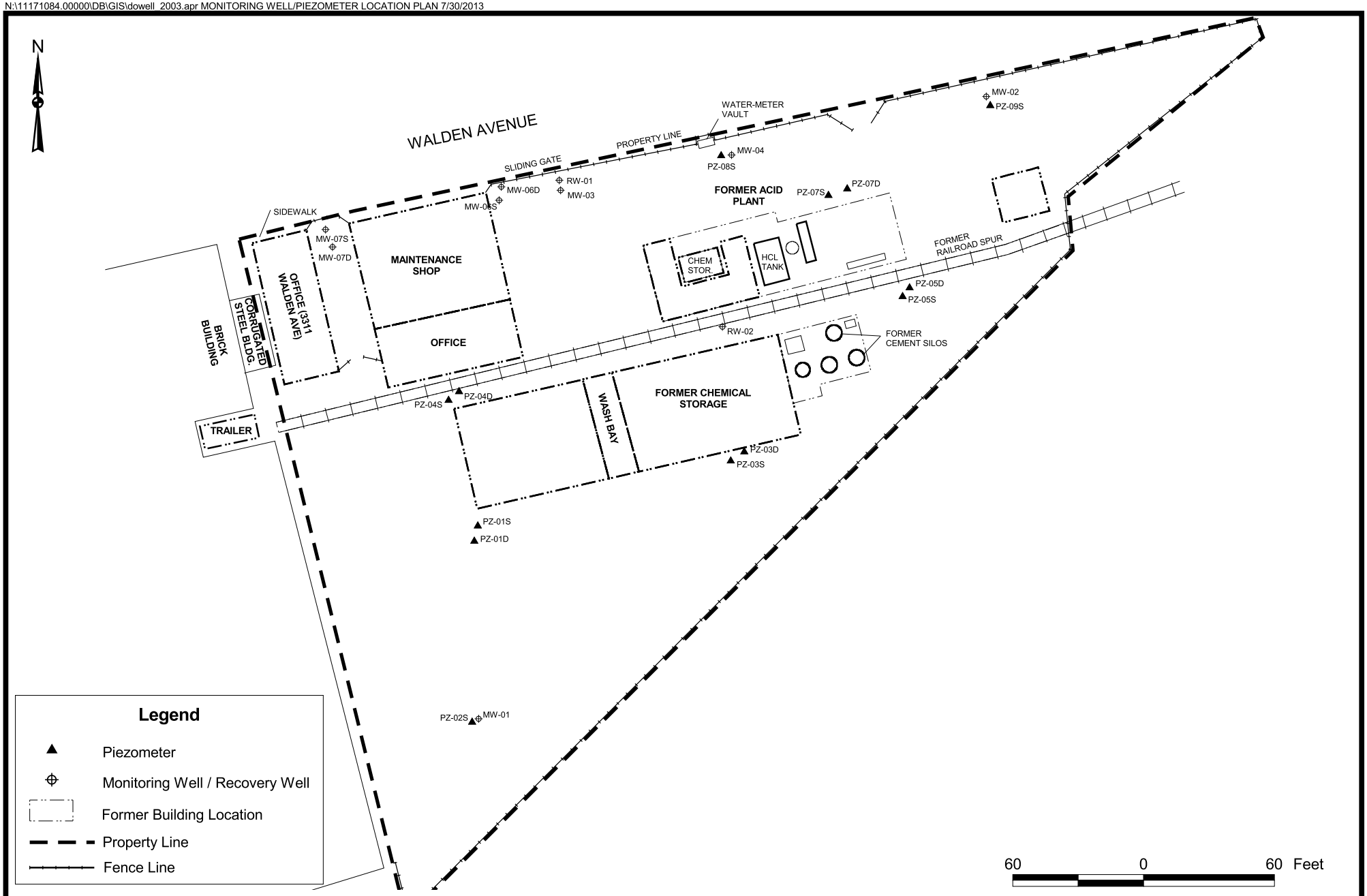
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1

AG20884-11176866-072913-GCM

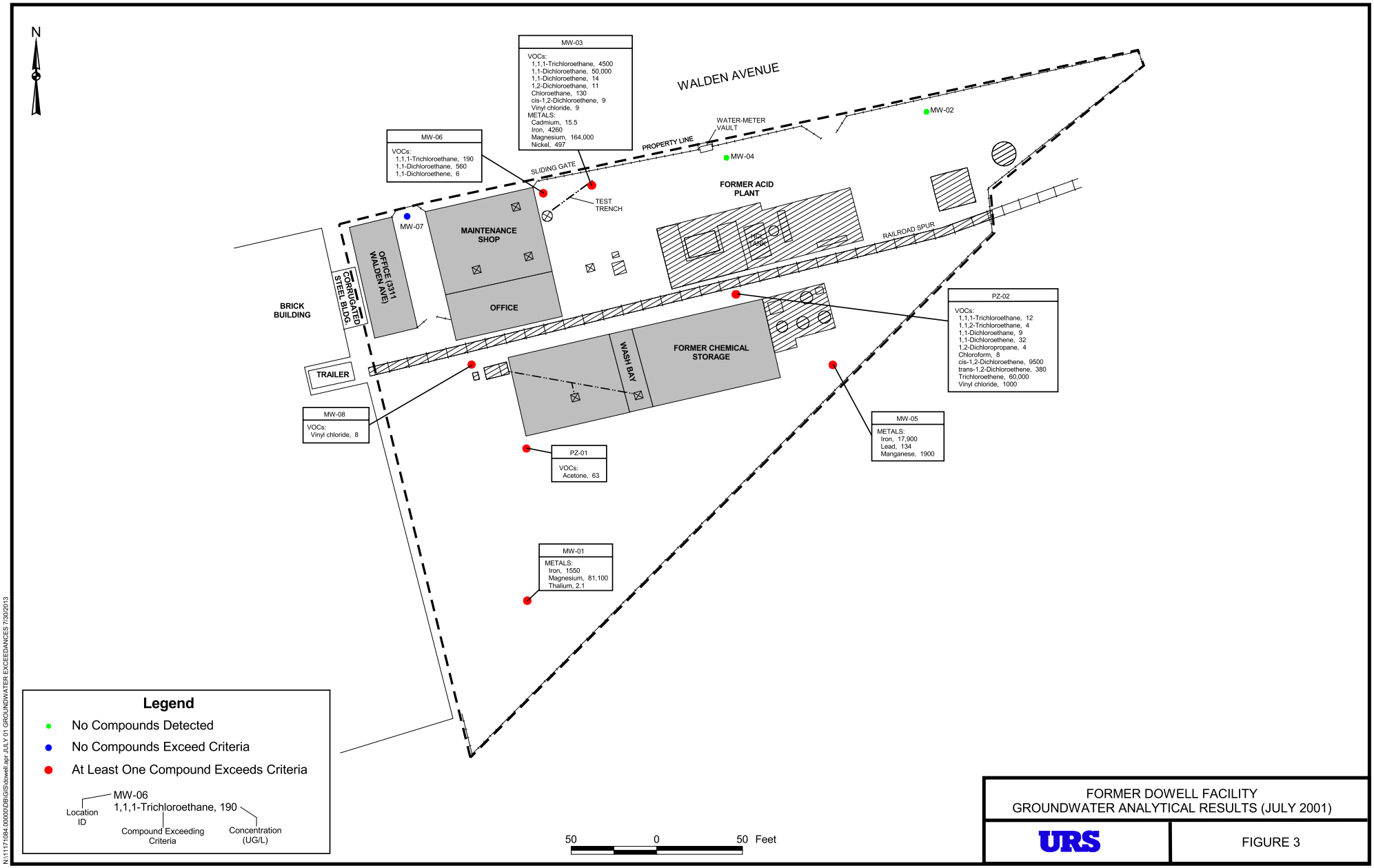
N:\11171084.00000\DB\GIS\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN 7/30/2013



URS

FORMER DOWELL FACILITY
MONITORING WELL/PIEZOMETER LOCATION PLAN

FIGURE 2

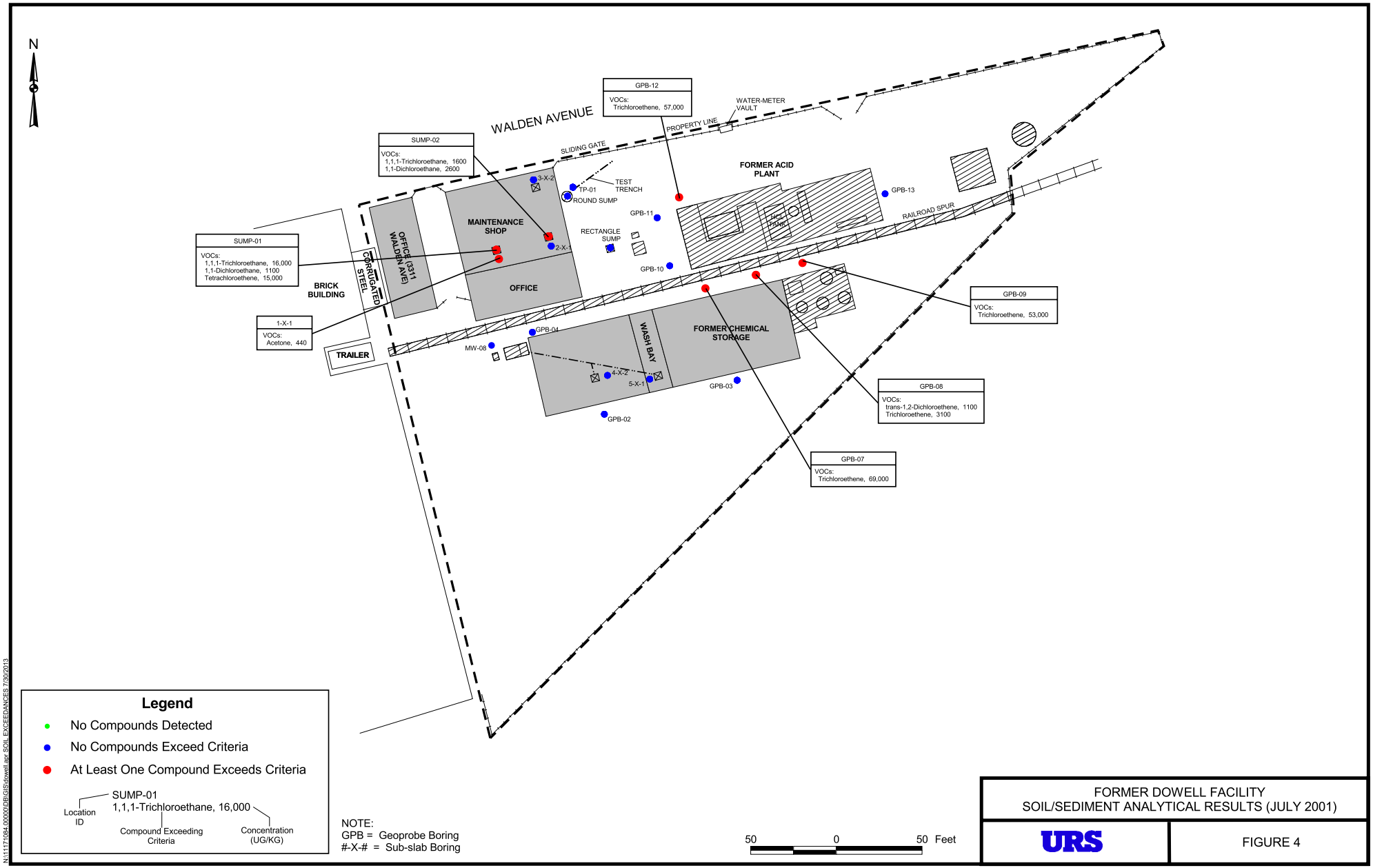


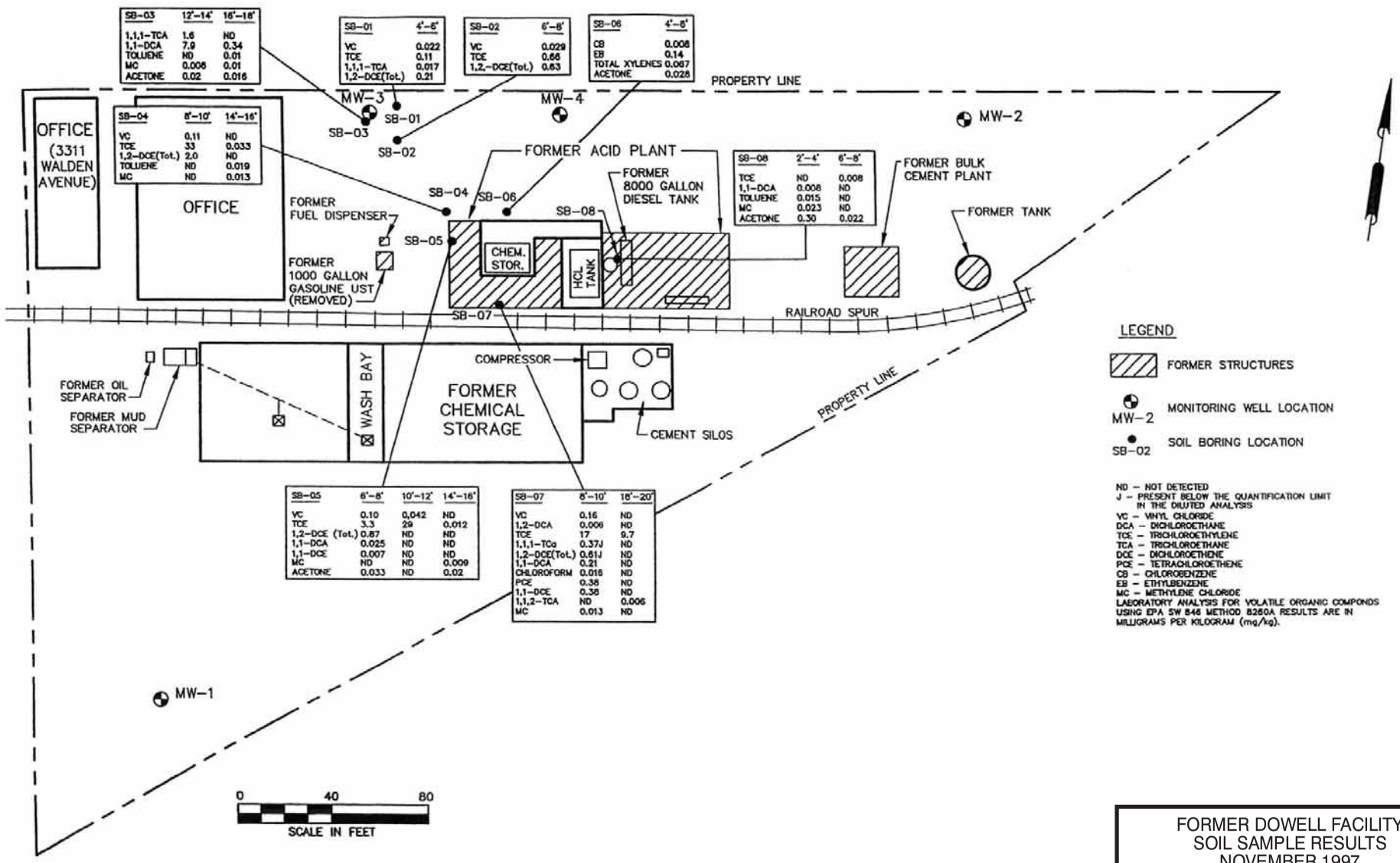
FORMER DOWELL FACILITY
GROUNDWATER ANALYTICAL RESULTS (JULY 2001)

URS

FIGURE 3

N:\11171084.00000\DBG\IS\dowell.apr JULY '01 GROUNDWATER EXCEEDANCES 7/30/2013


N
WALDEN AVENUE
PROPERTY LINE
SLIDING GATE
WATER-METER VAULT
GPB-12
VOCs:
Trichloroethene, 57,000
SUMP-02
VOCs:
1,1,1-Trichloroethane, 1600
1,1-Dichloroethane, 2600
SUMP-01
VOCs:
1,1,1-Trichloroethane, 16,000
1,1-Dichloroethane, 1100
Tetrachloroethene, 15,000
1-X-1
VOCs:
Acetone, 440
GPB-09
VOCs:
Trichloroethene, 53,000
GPB-08
VOCs:
trans-1,2-Dichloroethene, 1100
Trichloroethene, 3100
GPB-07
VOCs:
Trichloroethene, 69,000
FORMER ACID PLANT
MAINTENANCE SHOP
OFFICE
OFFICE (3311 WALDEN AVE)
CORRUGATED STEEL
BRICK BUILDING
TRAILER
FORMER CHEMICAL STORAGE
WASH BAY
RAILROAD SPUR
ROUND SUMP
RECTANGLE SUMP
TEST TRENCH
TP-01
3-X-2
2-X-1
4-X-2
5-X-1
GPB-10
GPB-11
GPB-13
GPB-04
GPB-03
GPB-02
MW-08
Legend
No Compounds Detected
No Compounds Exceed Criteria
At Least One Compound Exceeds Criteria
SUMP-01
1,1,1-Trichloroethane, 16,000
Location ID
Compound Exceeding Criteria
Concentration (UG/KG)
NOTE:
GPB = Geoprobe Boring
#-X-# = Sub-slab Boring
50 0 50 Feet
FORMER DOWELL FACILITY
SOIL/SEDIMENT ANALYTICAL RESULTS (JULY 2001)
URS
FIGURE 4
N:\11171084.00000\DB\GIS\dowell.apr SOIL EXCEEDANCES 7/30/2013



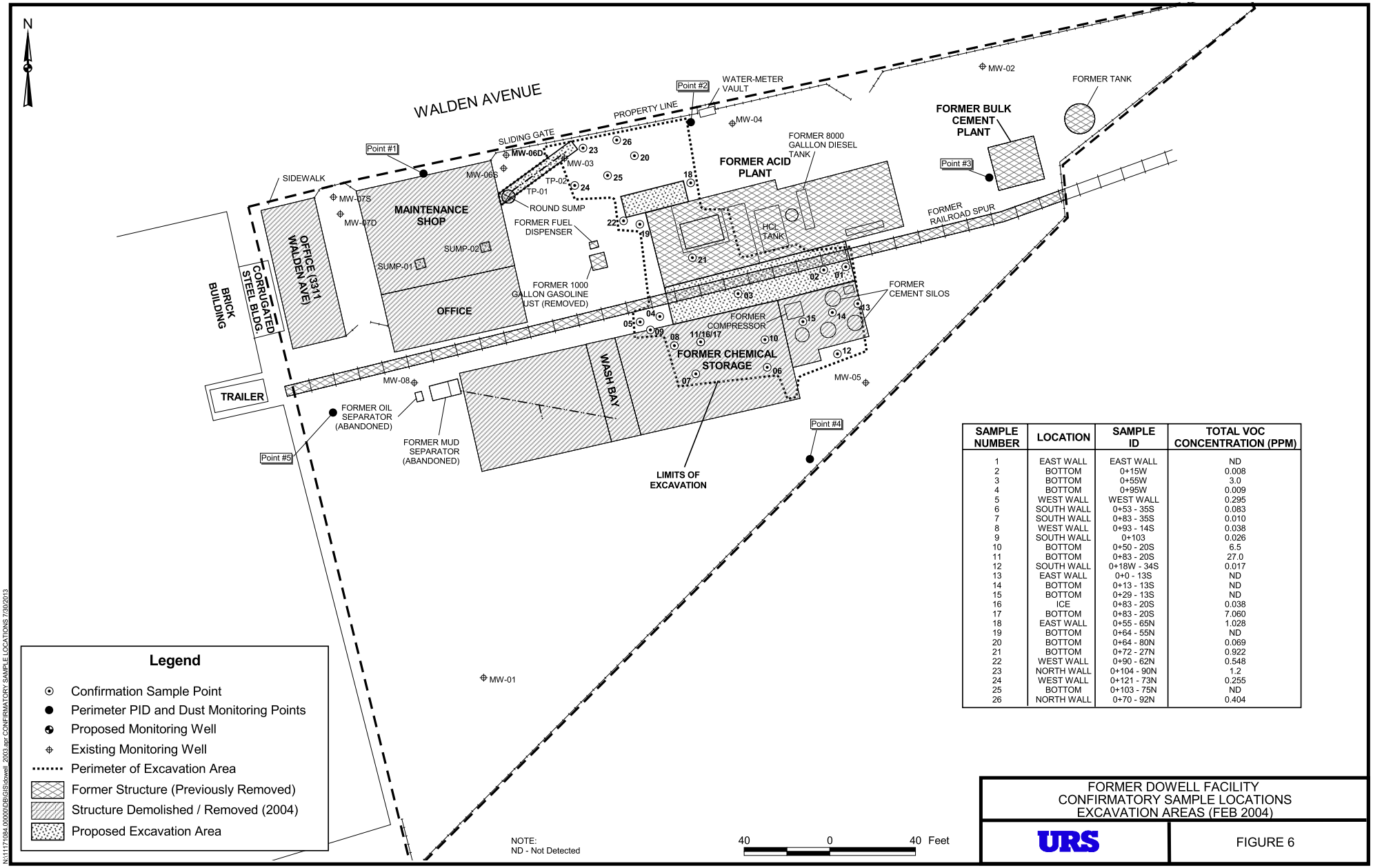
SOURCE: RADIAN INTERNATIONAL, JULY 1998

FORMER DOWELL FACILITY
SOIL SAMPLE RESULTS
NOVEMBER 1997

URS

FIGURE 5

AC20885-11176866-073013-GCM



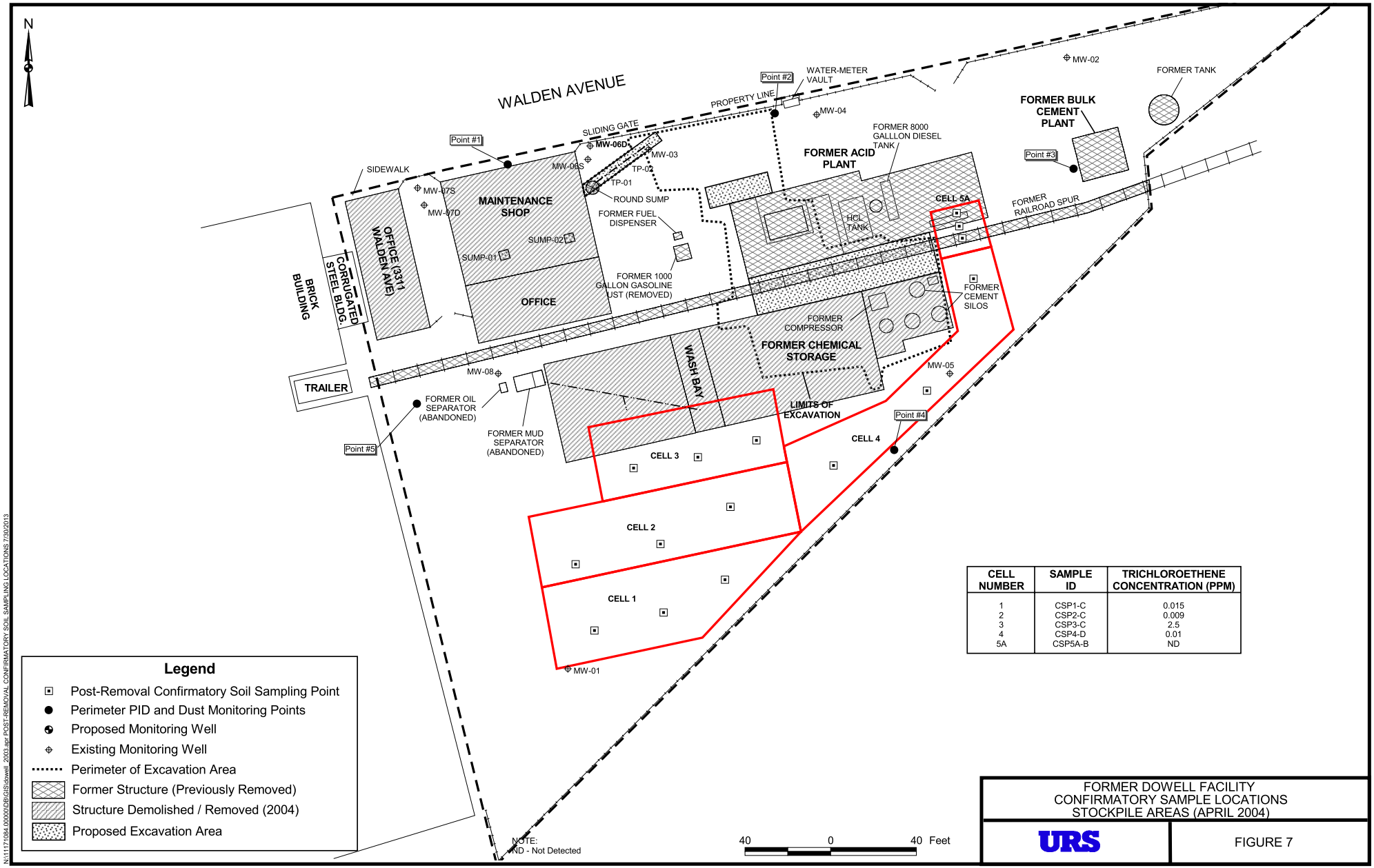
SAMPLE NUMBER	LOCATION	SAMPLE ID	TOTAL VOC CONCENTRATION (PPM)
1	EAST WALL	EAST WALL	ND
2	BOTTOM	0+15W	0.008
3	BOTTOM	0+55W	3.0
4	BOTTOM	0+95W	0.009
5	WEST WALL	WEST WALL	0.295
6	SOUTH WALL	0+53 - 35S	0.083
7	SOUTH WALL	0+83 - 35S	0.010
8	WEST WALL	0+93 - 14S	0.038
9	SOUTH WALL	0+103	0.026
10	BOTTOM	0+50 - 20S	6.5
11	BOTTOM	0+83 - 20S	27.0
12	SOUTH WALL	0+18W - 34S	0.017
13	EAST WALL	0+0 - 13S	ND
14	BOTTOM	0+13 - 13S	ND
15	BOTTOM	0+29 - 13S	ND
16	ICE	0+83 - 20S	0.038
17	BOTTOM	0+83 - 20S	7.060
18	EAST WALL	0+55 - 65N	1.028
19	BOTTOM	0+64 - 55N	ND
20	BOTTOM	0+64 - 80N	0.069
21	BOTTOM	0+72 - 27N	0.922
22	WEST WALL	0+90 - 62N	0.548
23	NORTH WALL	0+104 - 90N	1.2
24	WEST WALL	0+121 - 73N	0.255
25	BOTTOM	0+103 - 75N	ND
26	NORTH WALL	0+70 - 92N	0.404

FORMER DOWELL FACILITY
CONFIRMATORY SAMPLE LOCATIONS
EXCAVATION AREAS (FEB 2004)

URS

FIGURE 6

N:\11171084.00000\DB\GIS\dowell_2003.apr CONFIRMATORY SAMPLE LOCATIONS 7/30/2013



CELL NUMBER	SAMPLE ID	TRICHLOROETHENE CONCENTRATION (PPM)
1	CSP1-C	0.015
2	CSP2-C	0.009
3	CSP3-C	2.5
4	CSP4-D	0.01
5A	CSP5A-B	ND

FORMER DOWELL FACILITY
CONFIRMATORY SAMPLE LOCATIONS
STOCKPILE AREAS (APRIL 2004)

URS

FIGURE 7

N:\11171084.00000\DB\GIS\dowell_2003.apr POST-REMOVAL CONFIRMATORY SOIL SAMPLING LOCATIONS 7/30/2013


N
BREWSTER ST
LINCOLN ST
WALDEN AVENUE
BH-01
BH-02
BH-03
MW-02
PZ-09S
PZ-08S
MW-04
RW-01
MW-06D
MW-06S
PZ-07D
PZ-07S
MW-07S
MW-07D
PZ-05D
PZ-05S
RW-02
PZ-04D
PZ-04S
PZ-03D
PZ-03S
LIMITS OF EXCAVATION
PZ-01S
PZ-01D
APPROXIMATE PROPERTY LINE
PZ-02S
MW-01
Legend
Off-Site Groundwater Sampling Location
Monitoring Well Location
Recovery Well Location
Groundwater Flow Direction (Lower Till Unit, 3/18/2008)
Groundwater Flow Direction (Upper Till Unit, 3/18/2008)
Groundwater Elevation Contours (Lower Till Unit, 3/18/2008)
Groundwater Elevation Contours (Upper Till Unit, 3/18/2008)
NOTE:
Groundwater elevation is set at 100.40' within the limits of the excavation area.
60 0 60 Feet
FORMER DOWELL FACILITY
GROUNDWATER SAMPLING LOCATIONS
URS
FIGURE 8
N:\11171084.00000\DB\GIS\AERIAL (GW CONTOURS 20080318).mxd 7/30/2013

APPENDIX A

IC/EC CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **V00410**

Site Name Former Dowell Facility

Site Address: 3311-3313 Walden Ave Zip Code: 14043
City/Town: Depew
County: Erie
Site Acreage: 1.8

Reporting Period: December 07, 2011 to July 07, 2013

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. V00410

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
104.09-1-14	Dowell Schlumberger Inc.	Ground Water Use Restriction Landuse Restriction O&M Plan Monitoring Plan Site Management Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan

Prohibition of groundwater use, restriction of use to industrial (may request commercial use from Relevant Agency), annual reporting, no constructions without approval of Relevant Agency, adherence to an O & M Plan included as section 7-1 of the Remedial Action Report Dated July 2004 and any subsequent modifications (May 2011 Site Management Plan requires soil vapor study or installation of vapor mitigation system according to DOH guidelines before re-use.

104.09-1-15	Dowell Schlumberger Inc.	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan

Prohibition of groundwater use, annual reporting, no constructions without approval of Relevant Agency, adherence to an O & M Plan included as section 7-1 of the Remedial Action Report Dated July 2004 and any subsequent modifications (May 2011 Site Management Plan requires soil vapor study or installation of vapor mitigation system according to DOH guidelines before re-use.

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00410

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ROBERT R. HENSCHEL (print name) at URS - 77 GOODELL ST., BUFFALO, NY 14203 (print business address)

am certifying as DESIGNATED REPRESENTATIVE (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Robert R. Henschel
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

8/5/13
Date

APPENDIX B

QUARTERLY/ANNUAL GROUNDWATER SAMPLING REPORTS



February 2012
Groundwater Sampling Report
for the
Former Dowell Facility
3311 Walden Avenue
Depew, New York

prepared for:

Volunteers
Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

March 2012

G33957N

FEBRUARY 2012 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

VOLUNTEERS
DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
DOWELL SCHLUMBERGER INCORPORATED
THE DOW CHEMICAL COMPANY
(VCA INDEX NO. B9-0586-00-10)

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NEW YORK 14203

March 2012

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2.2.2 Comparison With Previous Results 2-2
2.3 Groundwater Flow Conditions 2-4
2.3.1 Upper Till/Unconfined Unit 2-4
2.3.2 Lower Till/Confined Bedrock Unit 2-4

3.0 CONCLUSIONS AND RECOMMENDATIONS 3-1

3.1 Conclusions ..... **Error! Bookmark not defined.**
3.2 Recommendations ..... **Error! Bookmark not defined.**

FIGURES

Following
Page No.

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Following
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APPENDICES

Appendix A	Groundwater Purging/Sampling Logs
Appendix B	Field Notes
Appendix C	Analytical Data - URS

1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of $H_2O_2/Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the $H_2O_2/Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the $H_2O_2/Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the February 2012 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

URS collected groundwater samples from monitoring wells MW-06S, MW-06D, MW-07S and MW-07D on February 27, 2012 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
1,1-Dichloroethane (1,1-DCA)	5		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethene (1,1-DCE)	5		1,2-Dichloroethene (1,2-DCE)	5
Chloroethane	5		Vinyl Chloride	0.3
Total VOCs	**NS			

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- Four VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06S: Chloroethane at 150 µg/L, 1,1-DCE at 79 µg/L, 1,1-DCA at 5,500 µg/L and 1,1,1-TCA at 250 µg/L.
- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06D: Chloroethane at 260 µg/L, 1,1-DCA at 14,000 µg/L and 1,1,1-TCA at 220 µg/L.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07S.
- No VOCs were detected in monitoring well MW-07D.

2.2.2 Comparison With Previous Results

The results of the URS analysis have been compared with the results from the September 2011 groundwater sampling event. This comparison indicated the following:

- Monitoring Well MW-06S – The concentration of Chloroethane increased from 120 µg/L (estimated) in September 2011 to 150 µg/L. The concentration of Vinyl Chloride decreased from 3.1 µg/L in September 2011 to not detected. The concentration of 1,1-DCE increased from 39 µg/L in September 2011 to 79 µg/L

(estimated). The concentration of 1,1-DCA decreased 11,000 µg/L in September 2011 to 5,500 µg/L. The concentration of 1,2-DCE decreased from 9 µg/L in September 2011 to not detected. The concentration of 1,2-DCA decreased from 2.9 µg/L in September 2011 to not detected. The concentration of 1,1,1-TCA decreased from 280 µg/L in September 2011 to 250 µg/L. The concentration of MTBE decreased from 0.80 µg/L (estimated) in September 2011 to not detected. These concentrations are within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA.

- Monitoring Well MW-06D – The concentration of Chloroethane decreased from 280 µg/L in September 2011 to 260 µg/L. The concentration of Vinyl Chloride decreased from 6 µg/L in September 2011 to not detected. The concentration of Methylene Chloride decreased from 0.70 µg/L (estimated) in September 2011 to not detected. The concentration of 1,1-DCE decreased from 80 µg/Lin September 2011 to not detected. The concentration of 1,1-DCA increased 9,900 µg/L in September 2011 14,000 µg/L. The concentration of 1,2-DCE decreased from 21 µg/L in September 2011 to not detected. The concentration of 1,2-DCA decreased from 2.9 µg/L in September 2011 to not detected. The concentration of 1,1,1-TCA decreased from 400 µg/L in September 2011 to not detected. The concentration of MTBE decreased from 0.75 µg/L (estimated) in September 2011 to not detected. These concentrations are within the historic range of concentrations observed since March 2005

- Monitoring Well MW-07S – The concentration of 1,1-DCA increased from not detected in September 2011 to 0.46 µg/L (estimated). This is the first detection of any VOC in this well since September 2005.

- Monitoring Well MW-07D - No VOCs were present above detection limits in the groundwater samples collected in February 2012. No detectable concentrations of VOC's have been observed since the well was installed in November 2005.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the site are essentially the same as observed during previous sampling events. Flow is still generally from southeast to northwest and northeast.

- Groundwater elevations throughout the soil removal area are at approximately 101.33 feet. This indicates that the excavation area is still acting as a "bathtub", with groundwater levels at essentially the same elevation throughout.
- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.
- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the site is still from the southeast.
- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation, groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).

- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

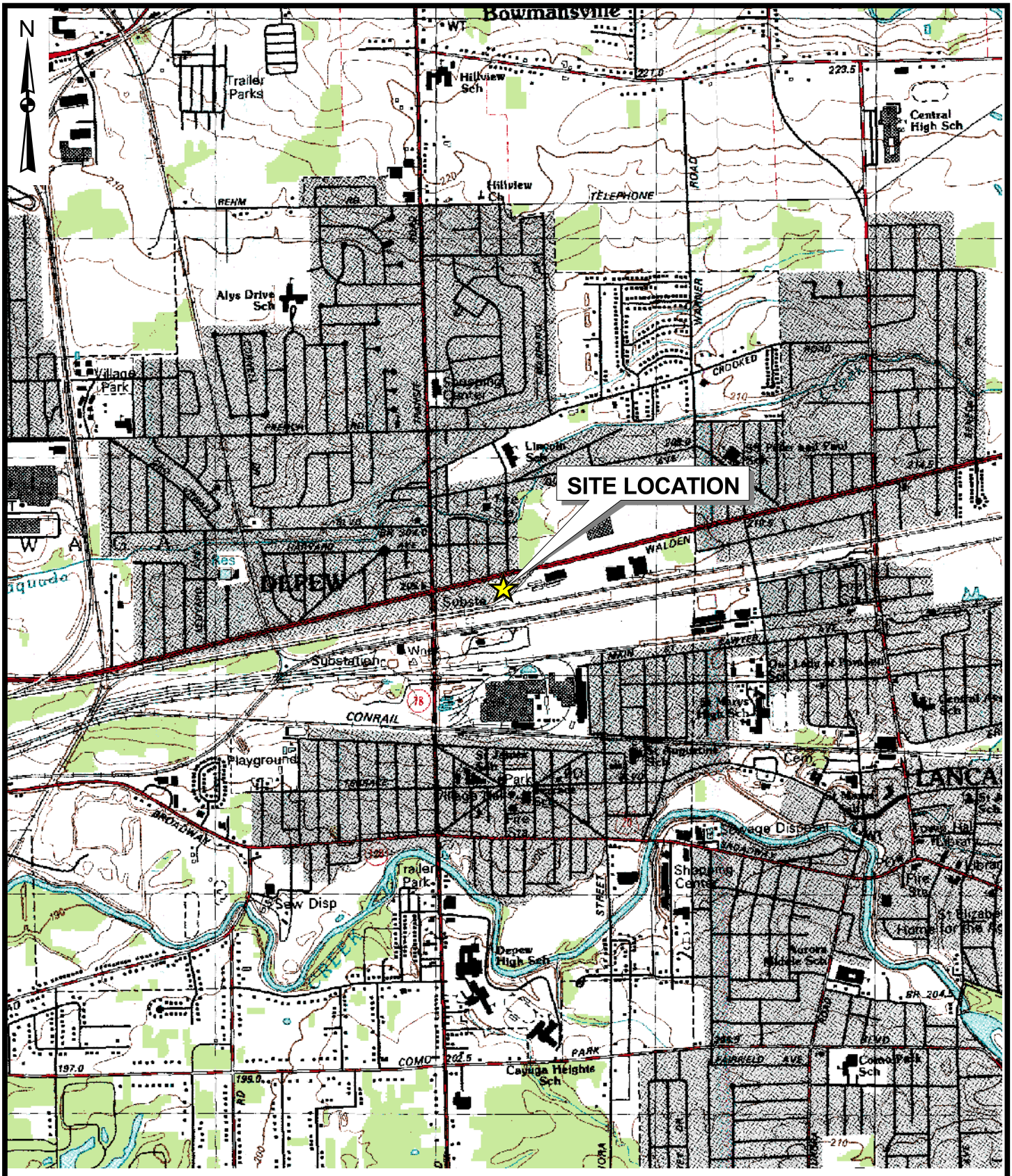
The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to February 2012.

3.2 Recommendations

The February 27, 2012 monitoring event is the first quarterly event since the issuance of the Certificate of Completion in December 2100. Based on the above discussions, it is recommended that:

- The SMP states that "beginning after the Certificate of Completion is issued by the NYSDEC, quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH".

- Quarterly groundwater sampling and site inspections should continue until six quarters of sampling have been conducted. At that time, groundwater sampling frequency and duration will be evaluated and discussed with the NYSDEC.



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

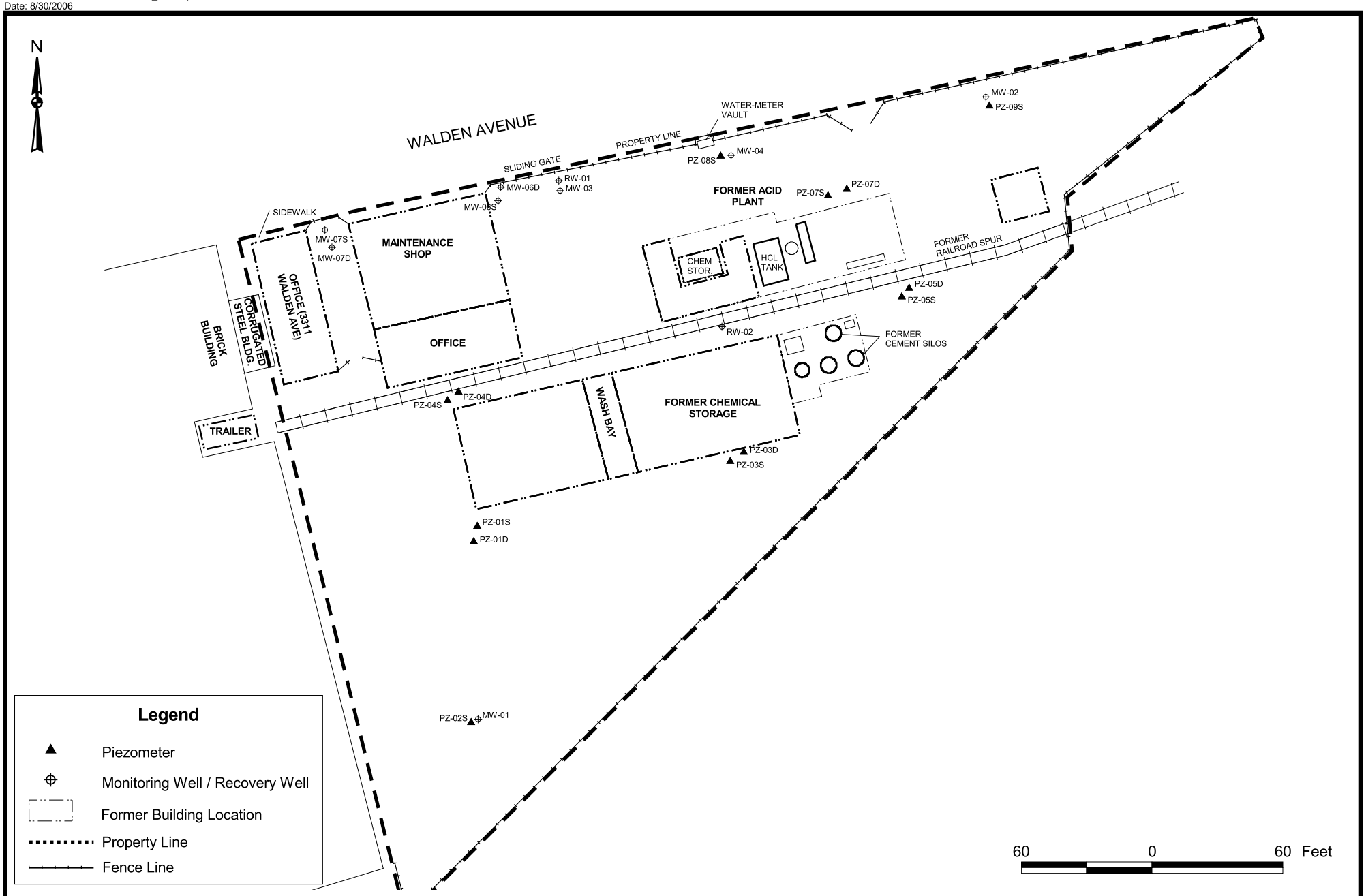
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

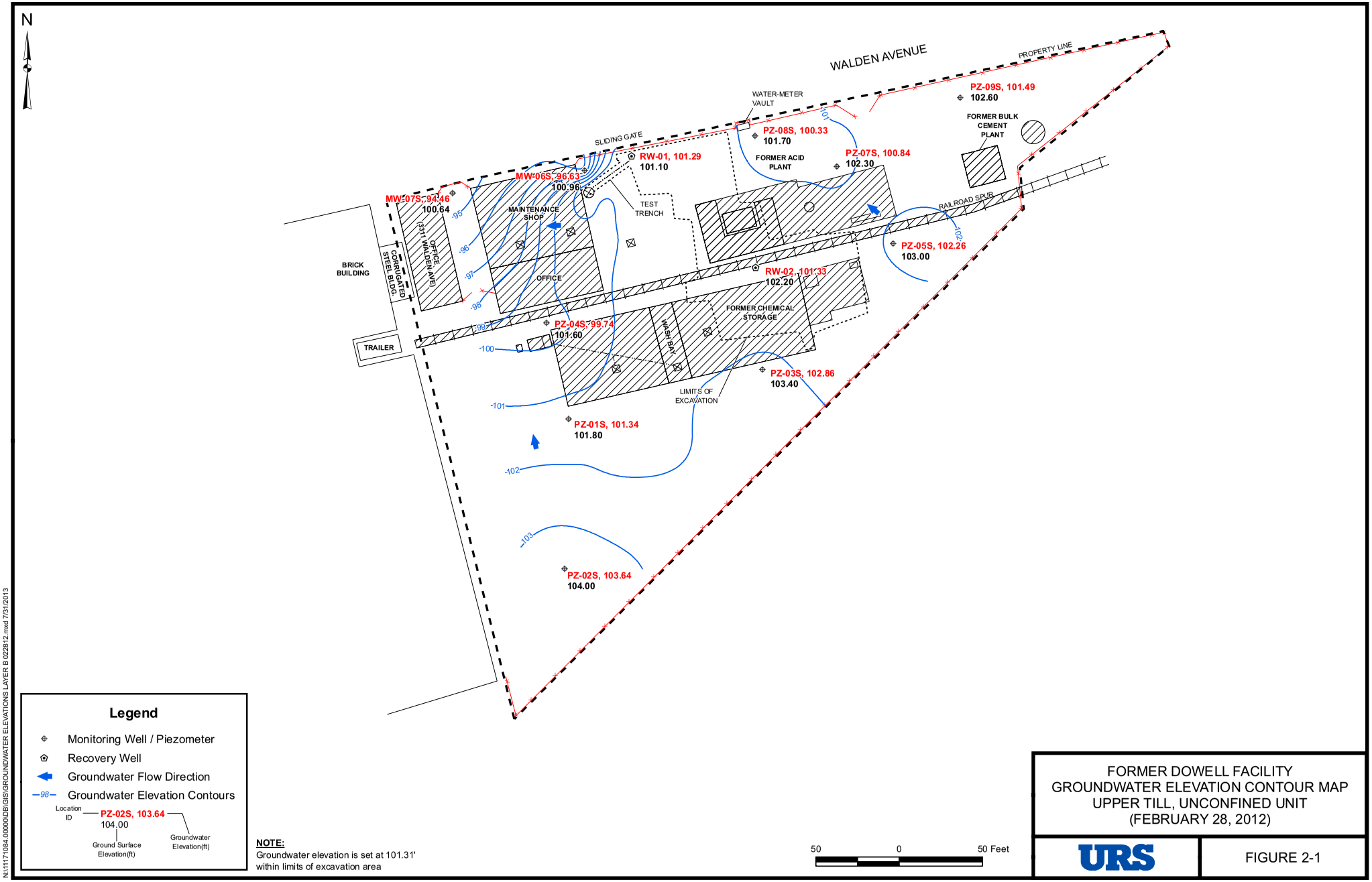
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006



URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2


N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
PZ-09S, 101.49
102.60
PZ-08S, 100.33
101.70
FORMER BULK CEMENT PLANT
FORMER ACID PLANT
PZ-07S, 100.84
102.30
RW-01, 101.29
101.10
MW-06S, 96.63
100.96
MW-07S, 94.46
100.64
MAINTENANCE SHOP
TEST TRENCH
RAILROAD SPUR
BRICK BUILDING
CORRUGATED STEEL BLDG.
OFFICE (3311 WALDEN AVE)
OFFICE
PZ-05S, 102.26
103.00
RW-02, 101.33
102.20
FORMER CHEMICAL STORAGE
PZ-04S, 99.74
101.60
WASH BAY
TRAILER
PZ-03S, 102.86
103.40
LIMITS OF EXCAVATION
PZ-01S, 101.34
101.80
PZ-02S, 103.64
104.00
95
96
97
98
99
100
101
102
103
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
98
Groundwater Elevation Contours
Location ID
PZ-02S, 103.64
104.00
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 101.31' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(FEBRUARY 28, 2012)
URS
FIGURE 2-1
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 022812.mxd 7/31/2013

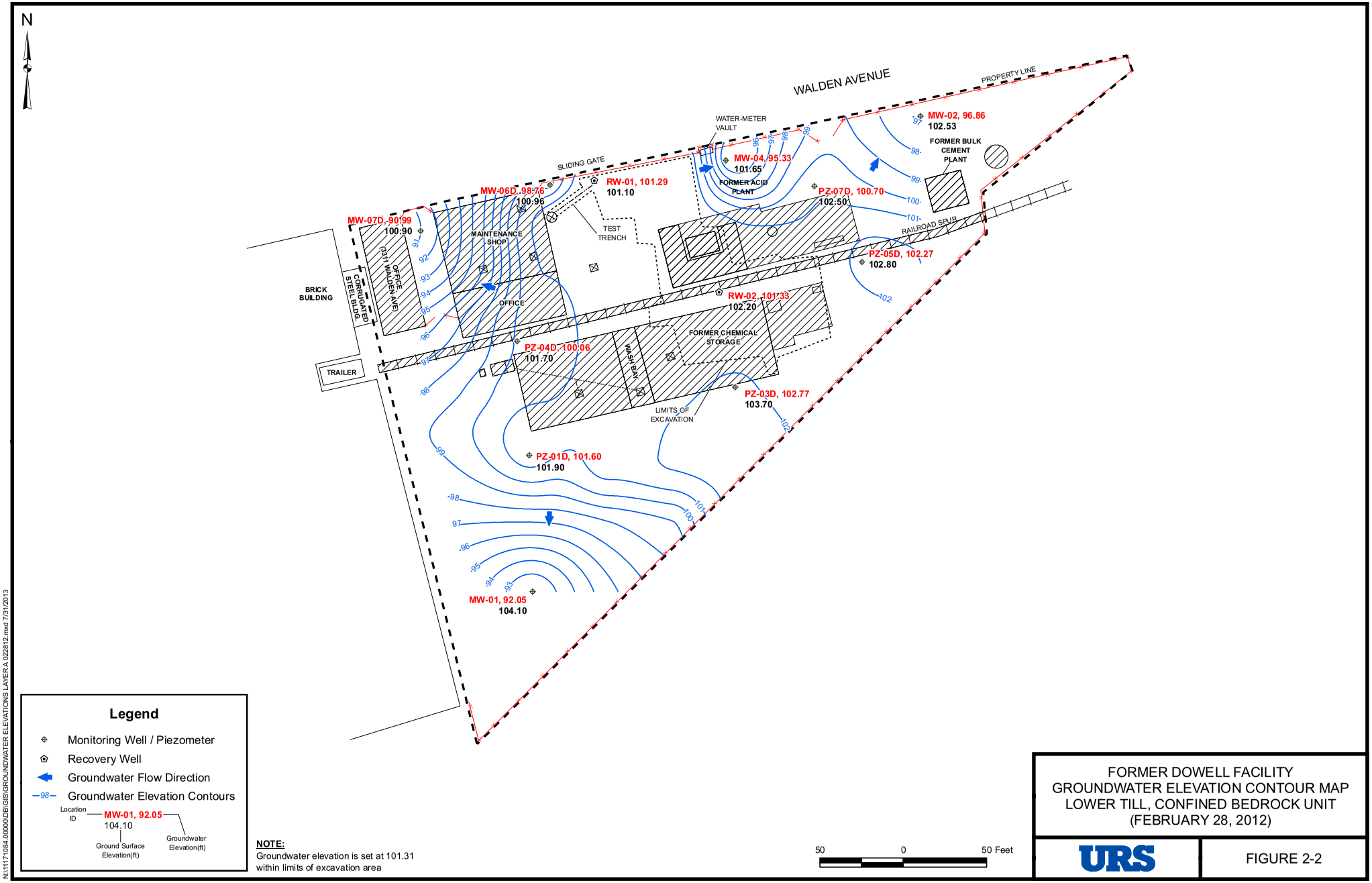

N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
MW-02, 96.86
102.53
FORMER BULK CEMENT PLANT
MW-04, 95.33
101.65
FORMER ACID PLANT
RW-01, 101.29
101.10
MW-06D, 98.76
100.96
PZ-07D, 100.70
102.50
MW-07D, 90.99
100.90
TEST TRENCH
RAILROAD SPUR
MAINTENANCE SHOP
OFFICE (5311 WALDEN AVE)
PZ-05D, 102.27
102.80
BRICK BUILDING
CORRUGATED STEEL BLDG
OFFICE
RW-02, 101.33
102.20
FORMER CHEMICAL STORAGE
PZ-04D, 100.06
101.70
WASH BAY
TRAILER
PZ-03D, 102.77
103.70
LIMITS OF EXCAVATION
PZ-01D, 101.60
101.90
MW-01, 92.05
104.10
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
Groundwater Elevation Contours
Location ID
MW-01, 92.05
104.10
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 101.31 within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(FEBRUARY 28, 2012)
URS
FIGURE 2-2
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 022812.mxd 7/31/2013

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS
Acetone	UG/L	U	U	NS	NS	U	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	NS	NS	U	NS	NS
Vinyl Chloride	UG/L	NS	NS	U	NS	NS
Methylene Chloride	UG/L	NS	NS	U	NS	NS
Acetone	UG/L	NS	NS	U	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS
Total VOCs	UG/L	NS	NS	U	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS
Acetone	UG/L	U	U	NS	NS	U	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	U	U	120 J	150
Vinyl Chloride	UG/L	U	U	U	U	3.1	U
Methylene Chloride	UG/L	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	U	U	280	260
Vinyl Chloride	UG/L	U	U	U	U	6	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U
Acetone	UG/L	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	NS	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	NS	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U
Acetone	UG/L	NS	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1	7/16/2001 0000	4.15	98.10	0.00	98.10	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1	7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1	7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	
								9/15/2009 0000	7.19	94.06	0.00	94.06	
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	
								6/16/2009 0000	5.62	94.76	0.00	94.76	
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1	7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1	11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	
								2/28/2012 0000	9.28	90.99	0.00	90.99	
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	
								2/28/2012 0000	5.64	94.46	0.00	94.46	
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1	7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1	11/3/2005 1117	12.93	92.28	0.00	92.28	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/14/2006 0000	4.71	100.26	0.00	100.26	
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	
								2/28/2012 0000	3.63	101.34	0.00	101.34	
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1	11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1	11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1	11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1	11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	
								12/8/2009 0000	3.28	102.15	0.00	102.15	
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	
								9/23/2008 0000	4.74	100.36	0.00	100.36	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	4.41	100.84	0.00	100.84	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1						
								11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	
								3/9/2006 0000	3.52	101.56	0.00	101.56	
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1						
								11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	
								3/13/2007 0000	4.64	101.74	0.00	101.74	
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/11/2007 0000	3.02	100.88	0.00	100.88	
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1	11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	
								2/28/2012 0000	3.39	101.33	0.00	101.33	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

Filter = (((((([tblGWD].[LOCID]<>"PZ-02" Or [tblGWD].[LOCID] IS Null)) AND ([tblGWD].[LOGDATE]<>#7/5/2013# Or [tblGWD].[LOGDATE] IS Null)) AND ([tblGWD].[LOGDATE]<>#4/9/2013# Or [tblGWD].[LOGDATE] IS Null)) AND ([tblGWD].[LOGDATE]<>#12/20/2012# Or [tblGWD].[LOGDATE] IS Null)) AND ([tblGWD].[LOGDATE]<>#9/26/2012# Or [tblGWD].[LOGDATE] IS Null)) AND

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06S

Date: 02/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.76 Depth to Well Bottom: 19.80 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 9.9 L Estimated Purge Volume: 7 L

Sample ID: MW-06S-02/12 Sample Time: 1305 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1230	7.34	10.77	2.03	5.76	NM	-25	200	5.38
1235	6.97	10.47	1.51	4.75	35.7	37	200	6.65
1240	6.95	10.74	1.56	4.39	36.9	28	200	7.58
1245	6.95	10.91	1.56	4.04	32.0	38	200	8.20
1250	6.94	11.22	1.59	3.58	28.3	28	200	8.84
1255	6.93	11.47	1.61	3.10	26.4	34	200	9.55
1300	6.93	11.50	1.62	3.05	26.1	32	200	10.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 9/16-inch bolts. Both are stripped.

NM = Not recorded.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 02/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 1.39 Depth to Well Bottom: 29.53 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing: 17 L Estimated Purge Volume: 11.4 L

Sample ID: MW-06D-02/12 Sample Time: 1205 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1125	7.16	14.48	2.71	8.69	35.9	-42	300	2.52
1130	6.96	13.19	2.82	1.69	34.7	-71	250	3.97
1135	6.89	12.35	2.62	3.69	24.8	2	250	5.05
1140	6.87	12.15	2.51	3.57	17.9	19	250	6.18
1148	6.87	11.87	2.52	2.55	19.2	17	250	7.57
1150	6.87	11.85	2.53	2.50	14.3	15	230	7.98
1155	6.86	11.72	2.58	1.94	14.2	12	200	8.94
1200	6.87	11.70	2.59	1.92	14.1	11	200	9.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 3/4-inch bolts.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07S

Date: 02/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.90 Depth to Well Bottom: 18.92 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 9.3 L Estimated Purge Volume: 7.6 L

Sample ID: MW-07S-002/12 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1535	7.39	11.26	0.685	15.62	33.1	108	100	4.42
1538	Pump off due to low battery. Changed battery.							
1555	7.31	10.16	0.673	0.85	24.5	112	250	5.04
1600	7.30	9.82	0.674	0.34	20.4	107	200	6.89
1605	7.30	9.58	0.668	0.21	19.2	104	150	7.90
1610	7.29	9.43	0.665	0.11	18.8	104	150	8.75
1615	7.29	9.28	0.663	0.01	19.0	102	150	9.35
1620	7.28	9.21	0.664	0.00	18.3	101	150	9.55
1625	7.28	9.22	0.665	0.00	14.1	100	150	9.75
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-07D.
4. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07D

Date: 02/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.78 Depth to Well Bottom: 30.14 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 16.3 L Estimated Purge Volume: 7.3 L

Sample ID: MW-07D-02/12 Sample Time: 1712 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1640	7.74	9.61	0.536	3.95	9.53	100	150	4.45
1645	7.68	9.82	0.540	2.78	7.18	102	150	5.73
1650	7.67	10.00	0.539	2.66	14.1	93	150	6.83
1656	7.67	10.01	0.538	2.46	8.41	71	150	8.20
1700	7.67	9.96	0.536	2.39	8.56	63	150	8.85
1705	7.67	9.98	0.536	2.28	7.19	44	150	9.96
1710	7.67	9.96	0.536	2.21	7.53	39	150	10.78
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

APPENDIX B

FIELD NOTES

10
PROJECT Dowell Walden Ave.

Notebook No. _____

Continued From Page _____

2/27/12 Monday. WX. Temps To high 40°F. Breezy & Cloudy
Personnel: JohnBoyd URS
1100 - arrived at the site. Setup for monitoring well sampling
11.22 Pump on at MW-06D for purging
1205 Sampled MW-06D for VOC's
1228 Began purging MW-06S
1305 Collected sample from MW-06S for VOC's
1307 Began purging MW-07S. After about ½ hour of Trying to get the pump (Peristaltic) to pull WATER out of the well. After many Tries discovered the use of new Silicon Tubing Solved the problem
1535 Resumed pumping w/ new Tubing
1540 - Low BATTERY on the Pump. Had to Remove 1 of 3 of bushed + Small staplings to get rental VAN near the well to plug in the pump.
1555 Pumping Resumed
1630 Sampled MW-07S for VOC's
1637 Began PURGING MW-07D
1712 Sampled MW-07D for VOC's
1730 Left the SITE. Drove home. All samples in COOLER with ICE.

Continued on Page

Read and Understood By

John Boyd 2/27/12

Signed Date Signed Date

PROJECT Dorsett Walden Ave. Notebook No. _____ 11

Continued From Page _____

2/28/12 Tuesday

1455 Left office — drove to site.

1515 Set up for measuring monitoring wells and piezometers

1521 Measured 1st wells.

TIME	WELL/PIEZOMETER	DTW	TOTAL DEPTH	COMMENTS
1645	RW-01	2.61	18.44	J-Plug, Lock + CASING SOUND
1603	RW-02	3.39	15.77	" " " "
1617	PZ-01S	3.63	15.08	RISER CAP present, RISER SOUND
1619	PZ-01D	3.61	27.01	" "
1610	PZ-02S	4.22	16.53	" " Soft bottom
1623	PZ-03S	3.46	14.91	" "
1621	PZ-03D	2.96	26.92	" "
1641	PZ-04S	4.93	15.05	" "
1640	PZ-04D	4.74	26.99	" "
1553	PZ-05S	3.17	14.92	" "
1558	PZ-05D	3.93	26.86	" "
1543	PZ-07S	4.41	14.70	" " Soft Bottom
1540	PZ-07D	4.40	26.98	" "
1545	PZ-08S	4.75	14.92	" "
1521	PZ-09S	4.89	14.94	" "
1612	MW-01	11.75	28.72	J-Plug AND ROAD box SOUND
1530	MW-02	5.39	26.50	" "
1549	MW-04	5.92	27.64	" "
1625	MW-06S	3.75	19.80	" "
1631	MW-06D	1.62	29.48	J-Plug OK. Cover bolts STRIPPED
1635	MW-07S	5.64	18.89	J-Plug + ROAD box SOUND
1638	MW-07D	9.28	30.11	" "

1645- Measured last well. Packed up Equipment. Then did a site inspection of ground surface, fences, locks etc.

1700 Left the site and drove home, Then to TEST America.

1900 Dropped sample at TEST America Labs.

Continued on Page

Read and Understood By

Signed _____ Date 2/28/12 Signed _____ Date _____

APPENDIX C

ANALYTICAL DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-16611-1

Job Description: URS-Dowell Facility

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: John Boyd

Melissa Deyo

Approved for release.
Melissa L Deyo
Project Manager I
3/8/2012 3:50 PM

Melissa L Deyo
Project Manager I
melissa.deyo@testamericainc.com
03/08/2012

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-16611-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of target analytes: MW-06D-02/12 (480-16611-1), MW-06S-02/12 (480-16611-2), MW-06S-02/12 MS (480-16611-2 MS) and MW-06S-02/12 MSD (480-16611-2 MSD). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-16611-1

SDG No.:

Instrument ID: HP5973S Analysis Batch Number: 51978

Lab Sample ID: STD 480-51978/3 IC Client Sample ID:

Date Analyzed: 02/17/12 12:01 Lab File ID: S10861.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	1.83	Baseline	coderd	02/17/12 14:30

Lab Sample ID: STD 480-51978/4 IC Client Sample ID:

Date Analyzed: 02/17/12 12:24 Lab File ID: S10862.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.72	Baseline	coderd	02/17/12 14:29

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-16611-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-16611-1	MW-06D-02/12	Water	02/27/2012 1205	02/28/2012 1900
480-16611-2	MW-06S-02/12	Water	02/27/2012 1305	02/28/2012 1900
480-16611-3	MW-07S-02/12	Water	02/27/2012 1630	02/28/2012 1900
480-16611-4	MW-07D-02/12	Water	02/27/2012 1712	02/28/2012 1900
480-16611-5	TRIP BLANK	Water	02/27/2012 0000	02/28/2012 1900

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-16611-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-16611-1	**MW-06D-02/12**					
1,1,1-Trichloroethane		220		200	ug/L	8260B
1,1-Dichloroethane		14000		200	ug/L	8260B
Chloroethane		260		200	ug/L	8260B
480-16611-2	**MW-06S-02/12**					
1,1,1-Trichloroethane		250		100	ug/L	8260B
1,1-Dichloroethane		5500		100	ug/L	8260B
1,1-Dichloroethene		79	J	100	ug/L	8260B
Chloroethane		150		100	ug/L	8260B
480-16611-3	**MW-07S-02/12**					
1,1-Dichloroethane		0.46	J	1.0	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-16611-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-16611-1

Method	Analyst	Analyst ID
SW846 8260B	Coder, David	DC

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-06D-02/12**

Lab Sample ID: 480-16611-1
Client Matrix: Water

Date Sampled: 02/27/2012 1205
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11255.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	220		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	14000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	260		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-06D-02/12**

Lab Sample ID: 480-16611-1
Client Matrix: Water

Date Sampled: 02/27/2012 1205
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11255.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	88		73 - 120

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-06S-02/12**

Lab Sample ID: 480-16611-2
Client Matrix: Water

Date Sampled: 02/27/2012 1305
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53388	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11280.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	03/01/2012 0058			Final Weight/Volume:	5 mL
Prep Date:	03/01/2012 0058				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	250		82	100
1,1,2,2-Tetrachloroethane	ND		21	100
1,1,2-Trichloroethane	ND		23	100
1,1,2-Trichlorotrifluoroethane	ND		31	100
1,1-Dichloroethane	5500		38	100
1,1-Dichloroethene	79	J	29	100
1,2,4-Trichlorobenzene	ND		41	100
1,2-Dibromo-3-Chloropropane	ND		39	100
1,2-Dibromoethane (EDB)	ND		73	100
1,2-Dichlorobenzene	ND		79	100
1,2-Dichloroethane	ND		21	100
1,2-Dichloropropane	ND		72	100
1,3-Dichlorobenzene	ND		78	100
1,4-Dichlorobenzene	ND		84	100
2-Hexanone	ND		120	500
2-Butanone (MEK)	ND		130	1000
1,2-Dichloroethene, Total	ND		70	200
4-Methyl-2-pentanone (MIBK)	ND		210	500
Acetone	ND		300	1000
Benzene	ND		41	100
Bromodichloromethane	ND		39	100
Bromoform	ND		26	100
Bromomethane	ND		69	100
Carbon disulfide	ND		19	100
Carbon tetrachloride	ND		27	100
Chlorobenzene	ND		75	100
Chlorodibromomethane	ND		32	100
Chloroethane	150		32	100
Chloroform	ND		34	100
Chloromethane	ND		35	100
cis-1,2-Dichloroethene	ND		81	100
cis-1,3-Dichloropropene	ND		36	100
Cyclohexane	ND		18	100
Dichlorodifluoromethane	ND		68	100
Ethylbenzene	ND		74	100
Isopropylbenzene	ND		79	100
Methyl acetate	ND		50	100
Methyl tert-butyl ether	ND		16	100
Methylcyclohexane	ND		16	100
Methylene Chloride	ND		44	100
Styrene	ND		73	100
Tetrachloroethene	ND		36	100
Toluene	ND		51	100
trans-1,2-Dichloroethene	ND		90	100
trans-1,3-Dichloropropene	ND		37	100
Trichloroethene	ND		46	100

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-06S-02/12**

Lab Sample ID: 480-16611-2
Client Matrix: Water

Date Sampled: 02/27/2012 1305
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53388	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11280.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	03/01/2012 0058			Final Weight/Volume:	5 mL
Prep Date:	03/01/2012 0058				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		88	100
Vinyl chloride	ND		90	100
Xylenes, Total	ND		66	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	89		73 - 120

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-07S-02/12**

Lab Sample ID: 480-16611-3
Client Matrix: Water

Date Sampled: 02/27/2012 1630
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1600				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.46	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-07S-02/12**

Lab Sample ID: 480-16611-3
Client Matrix: Water

Date Sampled: 02/27/2012 1630
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1600				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	88		73 - 120

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-07D-02/12**

Lab Sample ID: 480-16611-4
Client Matrix: Water

Date Sampled: 02/27/2012 1712
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **MW-07D-02/12**

Lab Sample ID: 480-16611-4
Client Matrix: Water

Date Sampled: 02/27/2012 1712
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	89		73 - 120

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-16611-5
Client Matrix: Water

Date Sampled: 02/27/2012 0000
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11259.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1645			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-16611-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-16611-5
Client Matrix: Water

Date Sampled: 02/27/2012 0000
Date Received: 02/28/2012 1900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-53235	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S11259.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/29/2012 1645			Final Weight/Volume:	5 mL
Prep Date:	02/29/2012 1645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	90		73 - 120

Client: URS Corporation

Job Number: 480-16611-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-16611-1	MW-06D-02/12	93	95	88
480-16611-2	MW-06S-02/12	94	96	89
480-16611-3	MW-07S-02/12	93	94	88
480-16611-4	MW-07D-02/12	92	95	89
480-16611-5	TRIP BLANK	94	96	90
MB 480-53235/5		94	95	88
MB 480-53388/5		94	96	89
LCS 480-53235/4		92	95	89
LCS 480-53388/4		92	94	89
480-16611-2 MS	MW-06S-02/12 MS	92	96	88
480-16611-2 MSD	MW-06S-02/12 MSD	92	95	88

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120



July 2012
Groundwater Sampling Report
for the
Former Dowell Facility
3311 Walden Avenue
Depew, New York

prepared for:

Volunteers

Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

August 2012

G33957P

JULY 2012 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

VOLUNTEERS
DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
DOWELL SCHLUMBERGER INCORPORATED
THE DOW CHEMICAL COMPANY
(VCA INDEX NO. B9-0586-00-10)

Prepared by:

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77 GOODELL STREET
BUFFALO, NEW YORK 14203

August 2012

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1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of H_2O_2/$Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the H_2O_2/$Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the H_2O_2/$Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the July 2012 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

As required by the SMP, URS collected groundwater samples from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S and MW-07D on July 5 and 6, 2012 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-01.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-02.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-04.
- Four VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06S: Chloroethane at 430 µg/L, 1,1-DCE at 50 µg/L (estimated), 1,1-DCA at 12,000 µg/L and 1,1,1-TCA at 390 µg/L.
- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06D: Chloroethane at 450 µg/L, 1,1-DCA at 16,000 µg/L and 1,1,1-TCA at 300 µg/L.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07S.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07D.

2.2.2 Comparison With Previous Results

The results of the URS analysis have been compared with the results from the February 2012 groundwater sampling event for wells MW-06S/D and MW-07S/D and September 2009 for MW-01, MW-02 and MW-04, the last time these wells were sampled.. This comparison indicated the following:

- Monitoring Well MW-01 – This well continues to not have any VOCs present above SGCs.

- Monitoring Well MW-02 – This well continues to not have any VOCs present above SGCs.

- Monitoring Well MW-04 – This well continues to not have any VOCs present above SGCs.

- Monitoring Well MW-06S – The concentration of Chloroethane increased from 150 µg/L in February 2012 to 430 µg/L. The concentration of 1,1-DCE decreased from 79 µg/L in February 2012 to 50 µg/L (estimated) . The concentration of 1,1-DCA increased from 5,500 µg/L in February 2012 to 12,000 µg/L. The concentration of 1,1,1-TCA increased from 250 µg/L in February 2012 to 390 µg/L. These concentrations are within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA.

- Monitoring Well MW-06D – The concentration of Chloroethane increased from 260 µg/L in February 2012 to 450 µg/L. The concentration of 1,1-DCA increased from 14,000 µg/L in February 2012 to 16,000 to µg/L. The concentration of 1,1,1-TCA increased from 220 µg/L in February 2012 to 300 µg/L. These concentrations are within the historic range of concentrations observed since March 2005

- Monitoring Well MW-07S - No VOCs were present at concentrations that exceeded SGCs.

- Monitoring Well MW-07D - No VOCs were present at concentrations that exceeded the SGCs.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the site are essentially the same as observed during previous sampling events. Flow is still generally from southeast to northwest.

- Groundwater elevations throughout the soil removal area are at approximately 99 feet. This indicates that the excavation area is still acting as a "bathtub", with groundwater levels at essentially the same elevation throughout.

- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.

- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the site is still from the southeast.

- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation,

groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).

- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

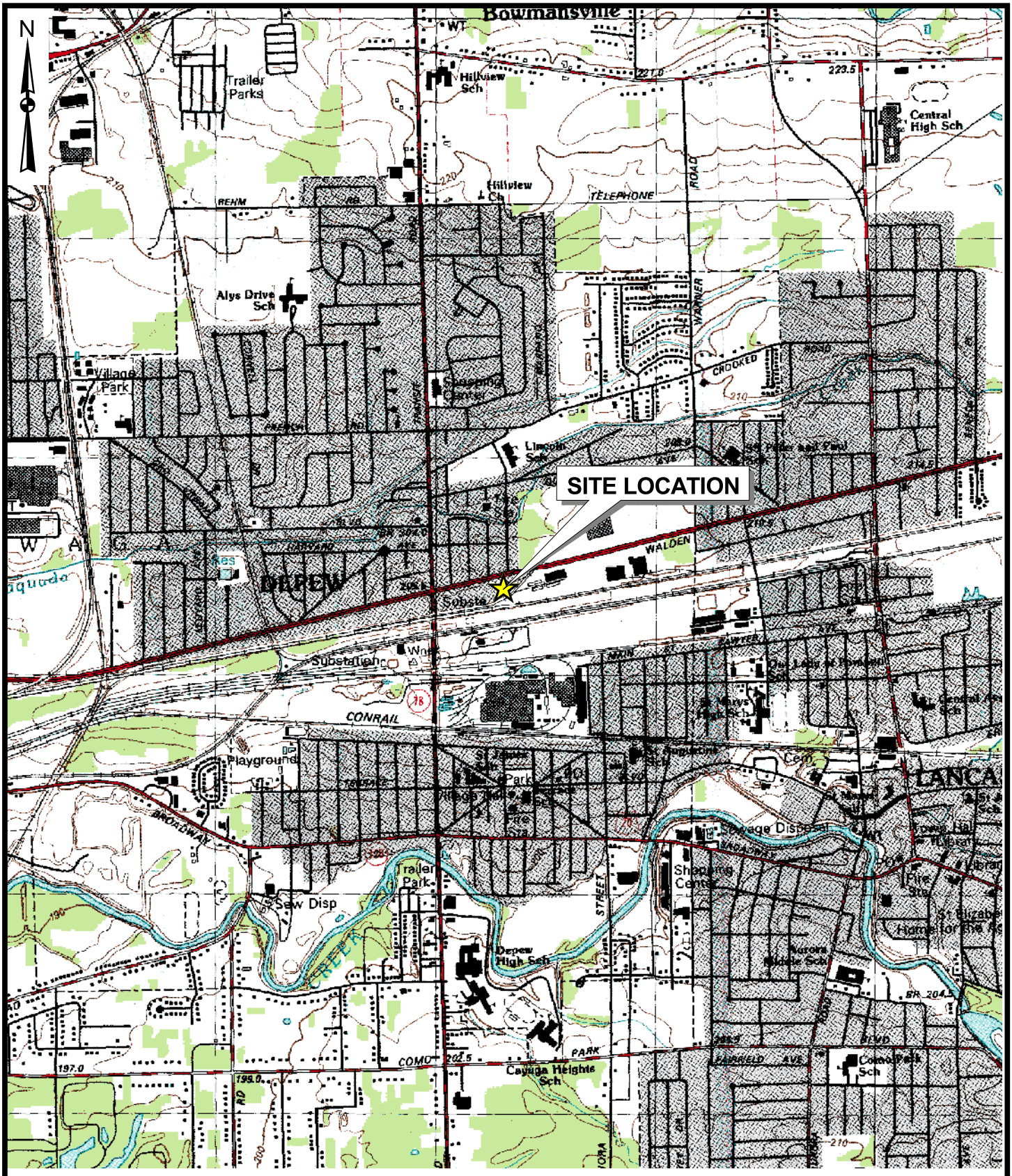
The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to July 2012.

3.2 Recommendations

The July 2012 monitoring event is the second quarterly event since the issuance of the Certificate of Completion in December 2011. Based on the above discussions, it is recommended that:

- The SMP states that "beginning after the Certificate of Completion is issued by the NYSDEC, quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH".

- Quarterly groundwater sampling and site inspections should continue until six quarters of sampling have been conducted. At that time, groundwater sampling frequency and duration will be evaluated and discussed with the NYSDEC.



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

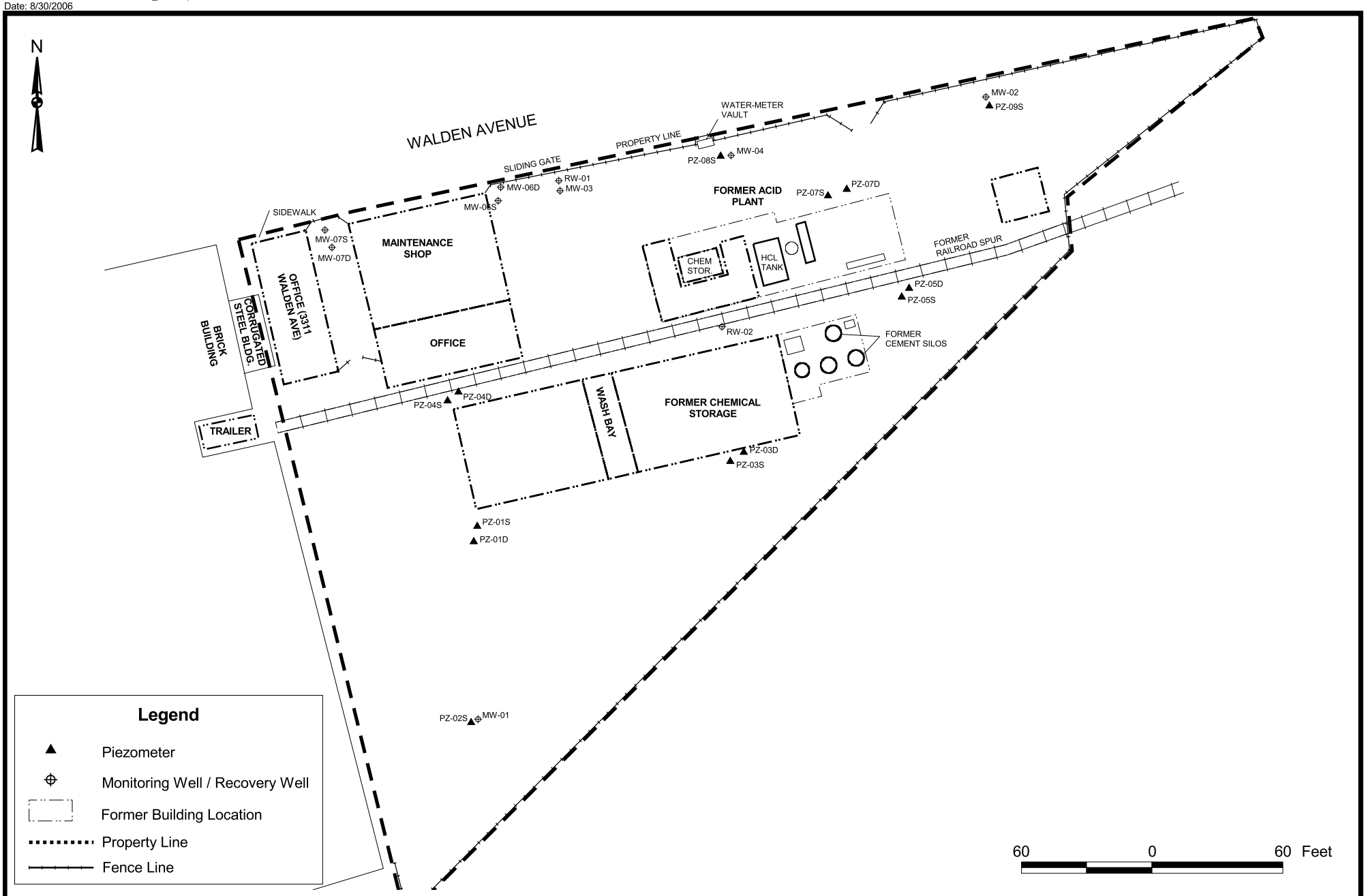
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

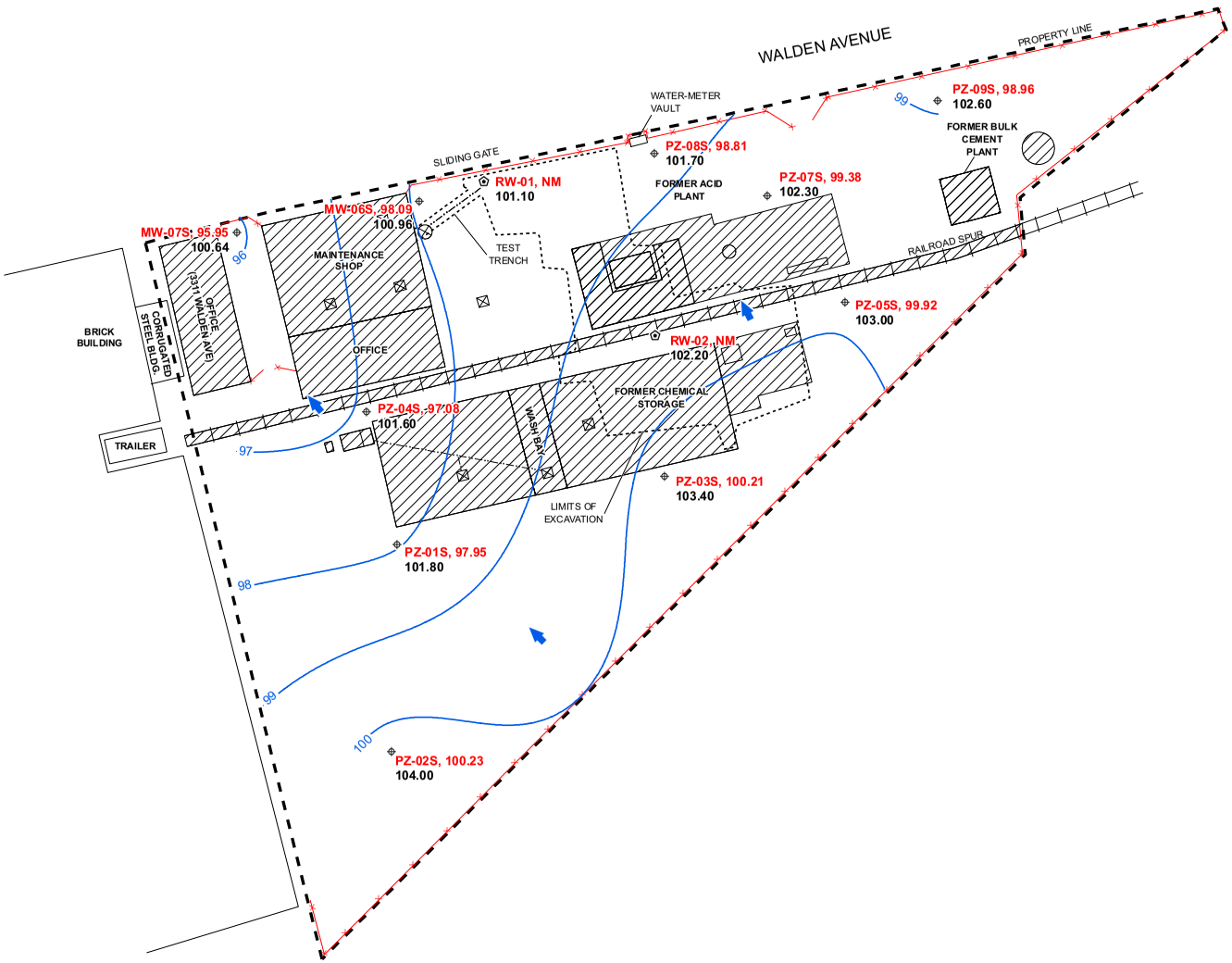
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006



URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2

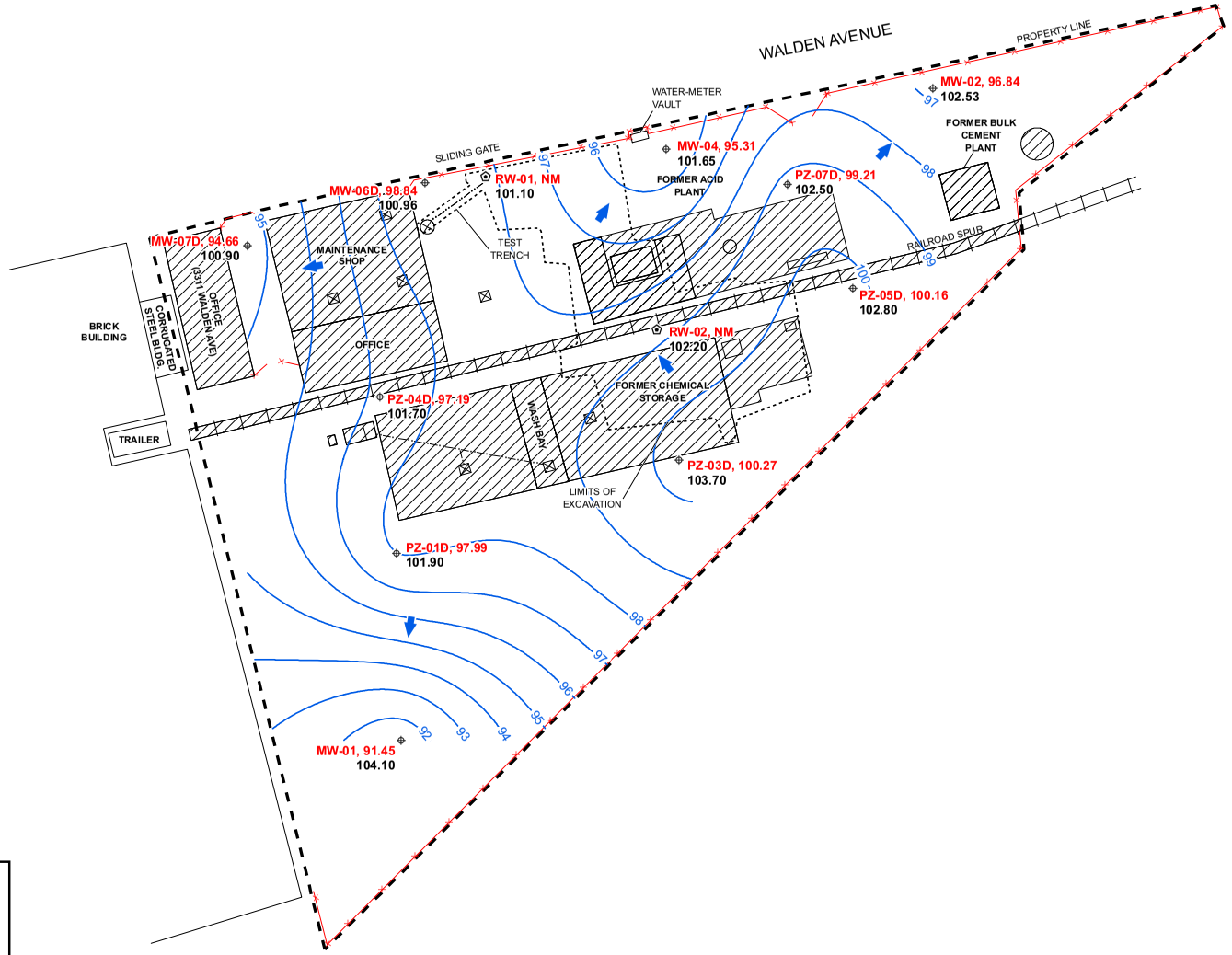


FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(JULY 5, 2012)

URS

FIGURE 2-1

N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 070512.mxd 9/7/2012



Legend

- Monitoring Well / Piezometer
- Recovery Well
- Groundwater Flow Direction
- 98 — Groundwater Elevation Contour

Location ID — MW-01, 91.46 — Groundwater Elevation(ft)
104.10 — Ground Surface Elevation(ft)

FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(JULY 5, 2012)

URS

FIGURE 2-2

N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 070512.mxd 9/7/2012

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	NS	NS	U	NS	NS	U
Acetone	UG/L	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS	U
Total VOCs	UG/L	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	U	U	120 J	150	430
Vinyl Chloride	UG/L	U	U	U	U	3.1	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79	50 J
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500	12,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250	390
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979	12,870

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	U	U	280	260	450
Vinyl Chloride	UG/L	U	U	U	U	6	U	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U	U
Acetone	UG/L	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000	16,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220	300
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480	16,750

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	NS	U	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U	U
Acetone	UG/L	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
								7/5/2012 0000	12.35	91.45	0.00	91.45	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1	7/16/2001 0000	4.15	98.10	0.00	98.10	
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	
								7/5/2012 0000	5.41	96.84	0.00	96.84	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1	7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1	7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	
								9/15/2009 0000	7.19	94.06	0.00	94.06	

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	
								7/5/2012 0000	5.94	95.31	0.00	95.31	
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	
								6/16/2009 0000	5.62	94.76	0.00	94.76	

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	
								7/5/2012 0000	1.54	98.84	0.00	98.84	
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1	7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	
								7/5/2012 0000	2.29	98.09	0.00	98.09	
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1	11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	
								2/28/2012 0000	9.28	90.99	0.00	90.99	
								7/5/2012 0000	5.61	94.66	0.00	94.66	

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	
								2/28/2012 0000	5.64	94.46	0.00	94.46	
								7/5/2012 0000	4.15	95.95	0.00	95.95	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1	7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1	11/3/2005 1117	12.93	92.28	0.00	92.28	
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
								7/5/2012 0000	7.22	97.99	0.00	97.99	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	
								6/14/2006 0000	4.71	100.26	0.00	100.26	
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	
								2/28/2012 0000	3.63	101.34	0.00	101.34	
								7/5/2012 0000	7.02	97.95	0.00	97.95	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1	11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
								7/5/2012 0000	7.63	100.23	0.00	100.23	
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1	11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
								7/5/2012 0000	5.46	100.27	0.00	100.27	
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1	11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	
								7/5/2012 0000	6.11	100.21	0.00	100.21	
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1	11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
								7/5/2012 0000	7.61	97.19	0.00	97.19	
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
								7/5/2012 0000	7.59	97.08	0.00	97.08	
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
								7/5/2012 0000	6.04	100.16	0.00	100.16	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	
								12/8/2009 0000	3.28	102.15	0.00	102.15	
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
								7/5/2012 0000	5.51	99.92	0.00	99.92	
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	
								9/23/2008 0000	4.74	100.36	0.00	100.36	
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
								7/5/2012 0000	5.89	99.21	0.00	99.21	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	
								2/28/2012 0000	4.41	100.84	0.00	100.84	
								7/5/2012 0000	5.87	99.38	0.00	99.38	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1	11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/9/2006 0000	3.52	101.56	0.00	101.56	
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	
								7/5/2012 0000	6.27	98.81	0.00	98.81	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1	11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	
								3/13/2007 0000	4.64	101.74	0.00	101.74	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
								7/5/2012 0000	7.42	98.96	0.00	98.96	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	
								12/11/2007 0000	3.02	100.88	0.00	100.88	
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1	11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	3.39	101.33	0.00	101.33	
								7/5/2012 0000	NM	-	NM	-	Could Not Open

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-01

Date: 07/06/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 11.60 Depth to Well Bottom: 28.75 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 10 L Estimated Purge Volume: 9 L

Sample ID: MW-01-07/12 Sample Time: 1458 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1415	7.67	22.83	0.579	2.12	29.4	-77	150	13.16
1420	7.58	21.09	0.600	0.00	17.9	-83	150	14.20
1425	7.55	20.69	0.595	0.00	16.7	-79	150	15.29
1430	7.52	20.45	0.591	0.00	18.8	-72	150	16.34
1435	7.51	20.27	0.586	0.00	29.8	-68	150	17.53
1440	7.6	20.30	0.564	0.00	32.7	-74	150	18.18
1445	7.91	20.32	0.487	0.00	49.1	-95	150	18.96
1450	8.21	20.53	0.408	0.00	47.9	-72	100	19.10
1455	8.29	20.83	0.407	0.00	37.4	-70	80	19.11
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: 1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-02

Date: 07/06/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.15 Depth to Well Bottom: 26.50 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 13 L Estimated Purge Volume: 8 L

Sample ID: MW-02-07/12 Sample Time: 1338 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1305	7.97	18.78	0.716	0.00	64.4	-128	250	6.31
1310	7.85	18.12	0.680	0.00	23.4	-136	150	6.80
1315	7.90	17.46	0.689	0.00	20.5	-143	150	7.99
1320	7.85	17.32	0.622	0.00	16.5	-142	150	9.11
1325	7.84	17.34	0.615	0.00	11.8	-143	150	9.83
1330	7.78	17.30	0.609	0.00	10.8	-140	150	10.68
1335	7.79	17.04	0.610	0.00	11.5	-139	150	11.16
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: 1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-04

Date: 07/06/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.57 Depth to Well Bottom: 27.61 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 13 L Estimated Purge Volume: 8 L

Sample ID: MW-04-07/12 Sample Time: 1228 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1157	7.66	23.90	4.61	0.58	32.5	-120	150	6.47
1200	7.65	21.99	4.69	0.00	30.1	-131	150	6.96
1205	7.63	20.02	4.83	0.00	31.4	-143	150	8.05
1210	7.63	19.14	4.90	0.00	32.3	-147	150	9.21
1215	7.62	18.74	4.93	0.00	29.9	-150	150	10.41
1220	7.63	18.19	4.97	0.00	26.1	-152	150	11.61
1225	7.63	17.97	4.98	0.00	30.2	-151	150	12.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: 1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06S

Date: 07/06/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 2.63 Depth to Well Bottom: 19.81 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 10 L Estimated Purge Volume: 8 L

Sample ID: MW-06S-07/12 Sample Time: 1035 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1003	7.35	24.52	1.62	3.48	11.4	101	150	3.33
1005	7.28	22.14	1.64	0.00	13.1	80	150	3.65
1010	7.21	19.81	1.69	0.00	7.98	54	150	4.24
1015	7.17	19.22	1.73	0.00	8.52	28	150	4.90
1020	7.17	18.99	1.73	0.00	8.16	20	150	5.32
1025	7.18	18.75	1.75	0.00	8.08	16	160	5.82
1030	7.17	18.22	1.74	0.00	10.9	17	160	6.61
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 9/16-inch bolts. Both are stripped.

NM = Not recorded.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 07/06/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 2.34 Depth to Well Bottom: 29.62 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing: 16.8 L Estimated Purge Volume: 6 L

Sample ID: MW-06D-07/12 Sample Time: 1120 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1047	7.34	23.15	2.63	1.38	65.6	10	200	7.12
1050	7.20	21.61	2.59	0.00	53.3	-26	150	7.45
1055	7.14	20.80	2.67	0.00	42.7	-42	150	7.90
1100	7.12	20.73	2.67	0.00	33.1	-47	150	8.22
1105	7.12	20.54	2.66	0.00	27.1	-48	150	8.60
1110	7.11	20.48	2.66	0.00	20.7	-53	150	8.93
1115	7.10	20.45	2.66	0.00	20.2	-57	150	9.32
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 3/4-inch bolts.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07S

Date: 07/05/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 4.15 Depth to Well Bottom: 18.91 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 9 L Estimated Purge Volume: 8 L

Sample ID: MW-07S-07/12 Sample Time: 1728 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1656	7.65	28.10	0.673	8.26	30.7	31	150	5.33
1700	7.53	25.15	0.685	0.00	15.3	10	150	5.83
1706	7.38	23.01	0.679	0.00	14.5	14	150	7.10
1710	7.40	22.89	0.681	0.00	14.6	23	150	7.99
1715	7.36	21.62	0.683	0.00	15.8	39	150	9.09
1720	7.37	21.39	0.682	0.00	13.6	49	150	9.60
1725	7.36	21.16	0.685	0.00	14.0	51	150	9.91
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-07D.
4. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07D

Date: 07/05/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.61 Depth to Well Bottom: 30.13 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 15 L Estimated Purge Volume: 9.5 L

Sample ID: MW-07D-07/12 Sample Time: 1817 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1745	7.84	22.01	0.556	0.55	31.0	72	150	6.49
1750	7.63	18.81	0.569	0.00	17.8	79	150	7.62
1755	7.64	17.94	0.570	0.00	16.6	73	150	8.93
1800	7.70	17.66	0.571	0.00	16.8	65	150	9.81
1805	7.67	17.42	0.572	0.00	18.5	54	150	11.01
1810	7.61	17.25	0.572	0.00	16.6	40	150	12.32
1815	7.68	17.26	0.572	0.00	15.6	38	150	13.57
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 0.02**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

APPENDIX B

FIELD NOTES

PROJECT Dowell Walden Avenue

Notebook No. _____

Continued From Page _____

7/5/12 Thursday

WX. Sunny - Hot. Temps high 80°F

Personnel: John Boyd URS

0800 - Picked up rental car - drove home & loaded up sampling Equipment. Drove to work

0905 - Arrived at URS — unloaded Walden Ave. Sampling Equip

1000 - drove to Dowell Walden Ave. Site.

1025 - Arrived at the site. Completed site inspection form.

1105 - Set up to measure onsite. Monitoring wells + Piezometers

Time	Well	PTW.	T. Depth	Comments
1110	RW-01	—	—	Locks frozen - could not measure
1118	RW-02	—	—	" " " "
1132	PZ-01S	7.02	45.08	J-Plug OK. Road box OK.
1134	PZ-01D	7.22	27.04	"
1130	PZ-02S	7.63	16.49	"
1129	PZ-03S	6.11	14.90	"
1127	PZ-03D	5.46	26.91	"
1138	PZ-04S	7.59	15.05	"
1137	PZ-04D	7.61	27.00	"
1124	PZ-05S	5.51	14.91	"
1126	PZ-05D	6.04	26.88	"
1123	PZ-07S	5.87	14.68	"
1122	PZ-07D	5.89	26.96	"
1120	PZ-08S	6.27	14.93	"
1121	PZ-09S	7.42	14.92	"
1657	MW-01	12.35	28.71	" 7/8" bolt
1639	MW-02	5.41	26.52	" 7/8" bolt.
1644	MW-04	5.94	27.63	" WATER IN ROAD BOX
1618	MW-06S	2.29	18.81	" 3/4" bolts
1610	MW-06D	1.54	29.49	Cover bolts Stripped. 9/16" bolts. WATER IN BOX
1633	MW-07S	4.15	18.91	" one 5/8" one 3/4" bolt
1630	MW-07D	5.61	30.13	" 3/4" bolts

Continued on Page

Read and Understood By

Signed: [signature] Date: 7/5/12 Signed: _____ Date: _____

PROJECT Dowell Wilkins Avenue

1200 – left site for dental appointment
1500 – Back at site. Set up for sampling and conducting well depth to water measurements. Also applied WD-40 to locks at RW-01 and RW-02 to get locks to work — no luck.
1654 Began purging MW-07S
1728 Sampled MW-07S.
1741 Began purging MW-07D
1817 Sampled MW-07D
1843 Left site. Drive to URS office
1908 Arrived at URS.

Continued on Page

Read and Understood By

Signed 7/5/12 Signed

Date Date

PROJECT Dowell Walden AVE. Notebook No. _____
Continued From Page _____

7/6/12 Friday. wx Sunny - Hot. Forcast to be in Low 90's F
Personnel: John Boyd - URS Corp.
0845 Arrived at the site. Again Attempted to open wells - Still frozen
0930 - Set up at MW-06 S/D well pair
1000. Began purging MW-06S
1035 Sampled MW-06S
1045. Began purging MW-06D
1120. Sampled MW-06D
1155. Began purging MW-04
1228 Sampled MW-04, then cleared Trees to drive to MW-02.
1302. Began purging MW-02
1338. Sampled MW-02.
1350. Cleared Trees To allow driving to MW-01 site.
1410. Began purging MW-01
1458 Sampled MW-01. Put away Equipment.
1535 - Drive to URS office
1556 - Arrived at URS office - Put away Equipment
1615 - Left office and drove to TEST America Lab
1705 Arrived at the Lab and delivered the samples. Then drove home

Continued on Page

Read and Understood By

Signed _____ Date 7/6/12 Signed _____ Date _____

APPENDIX C

ANALYTICAL DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-22258-1

Job Description: URS-Dowell Facility

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: John Boyd

Melissa Deyo

Approved for release.
Melissa L Deyo
Project Manager I
7/13/2012 4:20 PM

Melissa L Deyo
Project Manager I
melissa.deyo@testamericainc.com
07/13/2012

cc: Mr. Peter R Fairbanks
Mr. George Kisluk

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-22258-1

Receipt
The samples were received on 7/6/2012 5:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06S-07/12 (480-22258-3), MW-06S-07/12 DL (480-22258-3 DL) and MW-06D-07/12 (480-22258-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-22258-1

SDG No.:

Instrument ID: HP5973G Analysis Batch Number: 71552

Lab Sample ID: IC 480-71552/3 Client Sample ID:

Date Analyzed: 07/09/12 12:11 Lab File ID: G12860.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.03	Split Peak	larsonr	07/09/12 18:21
Methylene Chloride	3.44	Split Peak	larsonr	07/09/12 18:19

Lab Sample ID: IC 480-71552/4 Client Sample ID:

Date Analyzed: 07/09/12 12:34 Lab File ID: G12861.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.06	Split Peak	larsonr	07/09/12 18:21
1,1,2-Trichlorotrifluoroethane	2.90	Split Peak	larsonr	07/09/12 18:24

Lab Sample ID: IC 480-71552/5 Client Sample ID:

Date Analyzed: 07/09/12 12:56 Lab File ID: G12862.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.08	Split Peak	larsonr	07/09/12 18:28
Iodomethane	3.08	Split Peak	larsonr	07/09/12 18:28

Lab Sample ID: ICIS 480-71552/6 Client Sample ID:

Date Analyzed: 07/09/12 13:19 Lab File ID: G12863.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.07	Split Peak	larsonr	07/09/12 18:30
1,1-Dichloroethane	4.03	Split Peak	larsonr	07/09/12 18:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-22258-1

SDG No.:

Instrument ID: HP5973G Analysis Batch Number: 71552

Lab Sample ID: IC 480-71552/7 Client Sample ID:

Date Analyzed: 07/09/12 13:41 Lab File ID: G12864.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.08	Split Peak	larsonr	07/09/12 18:31
1,1-Dichloroethane	4.03	Split Peak	larsonr	07/09/12 18:35

Lab Sample ID: IC 480-71552/8 Client Sample ID:

Date Analyzed: 07/09/12 14:04 Lab File ID: G12865.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.08	Split Peak	larsonr	07/09/12 18:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-22258-1

SDG No.:

Instrument ID: HP5973G Analysis Batch Number: 71947

Lab Sample ID: CCVIS 480-71947/2 Client Sample ID:

Date Analyzed: 07/11/12 12:53 Lab File ID: G12944.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.08	Split Peak	HillL	07/11/12 13:22

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-22258-1

SDG No.:

Instrument ID: HP5973G Analysis Batch Number: 72003

Lab Sample ID: CCVIS 480-72003/2 Client Sample ID:

Date Analyzed: 07/11/12 22:23 Lab File ID: G12967.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.07	Split Peak	larsonr	07/11/12 22:42

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-22258-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-22258-1	MW-07S-07/12	Water	07/05/2012 1728	07/06/2012 1705
480-22258-2	MW-07D-07/12	Water	07/05/2012 1817	07/06/2012 1705
480-22258-3	MW-06S-07/12	Water	07/06/2012 1035	07/06/2012 1705
480-22258-4	MW-06D-07/12	Water	07/06/2012 1120	07/06/2012 1705
480-22258-5	MW-04-07/12	Water	07/06/2012 1228	07/06/2012 1705
480-22258-6	MW-02-07/12	Water	07/06/2012 1338	07/06/2012 1705
480-22258-7	MW-01-07/12	Water	07/06/2012 1458	07/06/2012 1705
480-22258-8	TRIP BLANK	Water	07/06/2012 0000	07/06/2012 1705

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-22258-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22258-1	**MW-07S-07/12**					
Acetone		8.5	J	10	ug/L	8260B
480-22258-2	**MW-07D-07/12**					
Acetone		8.6	J	10	ug/L	8260B
480-22258-3	**MW-06S-07/12**					
1,1,1-Trichloroethane		390		100	ug/L	8260B
1,1-Dichloroethane		12000		250	ug/L	8260B
1,1-Dichloroethene		50	J	100	ug/L	8260B
Chloroethane		430		100	ug/L	8260B
480-22258-4	**MW-06D-07/12**					
1,1,1-Trichloroethane		300		200	ug/L	8260B
1,1-Dichloroethane		16000		200	ug/L	8260B
Chloroethane		450		200	ug/L	8260B
480-22258-5	**MW-04-07/12**					
Acetone		8.6	J	10	ug/L	8260B
480-22258-6	**MW-02-07/12**					
Acetone		8.4	J	10	ug/L	8260B
480-22258-7	**MW-01-07/12**					
Acetone		8.6	J	10	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-22258-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-22258-1

Method	Analyst	Analyst ID
SW846 8260B	Jones, Rebecca	RJ
SW846 8260B	Larson, Renee	RL

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-07S-07/12**

Lab Sample ID: 480-22258-1
Client Matrix: Water

Date Sampled: 07/05/2012 1728
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1644			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1644				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	8.5	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-07S-07/12**

Lab Sample ID: 480-22258-1
Client Matrix: Water

Date Sampled: 07/05/2012 1728
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1644			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1644				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
Toluene-d8 (Surr)	110		71 - 126
4-Bromofluorobenzene (Surr)	106		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-07D-07/12**

Lab Sample ID: 480-22258-2
Client Matrix: Water

Date Sampled: 07/05/2012 1817
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1707			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1707				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	8.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-07D-07/12**

Lab Sample ID: 480-22258-2
Client Matrix: Water

Date Sampled: 07/05/2012 1817
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1707			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1707				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
Toluene-d8 (Surr)	111		71 - 126
4-Bromofluorobenzene (Surr)	106		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06S-07/12**

Lab Sample ID: 480-22258-3
Client Matrix: Water

Date Sampled: 07/06/2012 1035
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12954.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1730			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	390		82	100
1,1,2,2-Tetrachloroethane	ND		21	100
1,1,2-Trichloroethane	ND		23	100
1,1,2-Trichlorotrifluoroethane	ND		31	100
1,1-Dichloroethane	12000	E	38	100
1,1-Dichloroethene	50	J	29	100
1,2,4-Trichlorobenzene	ND		41	100
1,2-Dibromo-3-Chloropropane	ND		39	100
1,2-Dibromoethane (EDB)	ND		73	100
1,2-Dichlorobenzene	ND		79	100
1,2-Dichloroethane	ND		21	100
1,2-Dichloropropane	ND		72	100
1,3-Dichlorobenzene	ND		78	100
1,4-Dichlorobenzene	ND		84	100
2-Hexanone	ND		120	500
2-Butanone (MEK)	ND		130	1000
1,2-Dichloroethene, Total	ND		70	200
4-Methyl-2-pentanone (MIBK)	ND		210	500
Acetone	ND		300	1000
Benzene	ND		41	100
Bromodichloromethane	ND		39	100
Bromoform	ND		26	100
Bromomethane	ND		69	100
Carbon disulfide	ND		19	100
Carbon tetrachloride	ND		27	100
Chlorobenzene	ND		75	100
Chlorodibromomethane	ND		32	100
Chloroethane	430		32	100
Chloroform	ND		34	100
Chloromethane	ND		35	100
cis-1,2-Dichloroethene	ND		81	100
cis-1,3-Dichloropropene	ND		36	100
Cyclohexane	ND		18	100
Dichlorodifluoromethane	ND		68	100
Ethylbenzene	ND		74	100
Isopropylbenzene	ND		79	100
Methyl acetate	ND		50	100
Methyl tert-butyl ether	ND		16	100
Methylcyclohexane	ND		16	100
Methylene Chloride	ND		44	100
Styrene	ND		73	100
Tetrachloroethene	ND		36	100
Toluene	ND		51	100
trans-1,2-Dichloroethene	ND		90	100
trans-1,3-Dichloropropene	ND		37	100
Trichloroethene	ND		46	100

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06S-07/12**

Lab Sample ID: 480-22258-3
Client Matrix: Water

Date Sampled: 07/06/2012 1035
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12954.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1730			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		88	100
Vinyl chloride	ND		90	100
Xylenes, Total	ND		66	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	112		71 - 126
4-Bromofluorobenzene (Surr)	110		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06S-07/12**

Lab Sample ID: 480-22258-3
Client Matrix: Water

Date Sampled: 07/06/2012 1035
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-72003	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12975.D
Dilution:	250			Initial Weight/Volume:	5 mL
Analysis Date:	07/12/2012 0225	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	07/12/2012 0225				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	380		210	250
1,1,2,2-Tetrachloroethane	ND		53	250
1,1,2-Trichloroethane	ND		58	250
1,1,2-Trichlorotrifluoroethane	ND		78	250
1,1-Dichloroethane	12000		95	250
1,1-Dichloroethene	ND		73	250
1,2,4-Trichlorobenzene	ND		100	250
1,2-Dibromo-3-Chloropropane	ND		98	250
1,2-Dibromoethane (EDB)	ND		180	250
1,2-Dichlorobenzene	ND		200	250
1,2-Dichloroethane	ND		53	250
1,2-Dichloropropane	ND		180	250
1,3-Dichlorobenzene	ND		200	250
1,4-Dichlorobenzene	ND		210	250
2-Hexanone	ND		310	1300
2-Butanone (MEK)	ND		330	2500
1,2-Dichloroethene, Total	ND		180	500
4-Methyl-2-pentanone (MIBK)	ND		530	1300
Acetone	ND		750	2500
Benzene	ND		100	250
Bromodichloromethane	ND		98	250
Bromoform	ND		65	250
Bromomethane	ND		170	250
Carbon disulfide	ND		48	250
Carbon tetrachloride	ND		68	250
Chlorobenzene	ND		190	250
Chlorodibromomethane	ND		80	250
Chloroethane	370		80	250
Chloroform	ND		85	250
Chloromethane	ND		88	250
cis-1,2-Dichloroethene	ND		200	250
cis-1,3-Dichloropropene	ND		90	250
Cyclohexane	ND		45	250
Dichlorodifluoromethane	ND		170	250
Ethylbenzene	ND		190	250
Isopropylbenzene	ND		200	250
Methyl acetate	ND		130	250
Methyl tert-butyl ether	ND		40	250
Methylcyclohexane	ND		40	250
Methylene Chloride	ND		110	250
Styrene	ND		180	250
Tetrachloroethene	ND		90	250
Toluene	ND		130	250
trans-1,2-Dichloroethene	ND		230	250
trans-1,3-Dichloropropene	ND		93	250
Trichloroethene	ND		120	250

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06S-07/12**

Lab Sample ID: 480-22258-3
Client Matrix: Water

Date Sampled: 07/06/2012 1035
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-72003	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12975.D
Dilution:	250			Initial Weight/Volume:	5 mL
Analysis Date:	07/12/2012 0225	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	07/12/2012 0225				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		220	250
Vinyl chloride	ND		230	250
Xylenes, Total	ND		170	500

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06D-07/12**

Lab Sample ID: 480-22258-4
Client Matrix: Water

Date Sampled: 07/06/2012 1120
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12955.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1752			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1752				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	300		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	16000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	450		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-06D-07/12**

Lab Sample ID: 480-22258-4
Client Matrix: Water

Date Sampled: 07/06/2012 1120
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12955.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1752			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1752				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	110		71 - 126
4-Bromofluorobenzene (Surr)	107		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-04-07/12**

Lab Sample ID: 480-22258-5
Client Matrix: Water

Date Sampled: 07/06/2012 1228
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12956.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1815			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1815				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	8.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-04-07/12**

Lab Sample ID: 480-22258-5
Client Matrix: Water

Date Sampled: 07/06/2012 1228
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12956.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1815			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1815				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	106		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-02-07/12**

Lab Sample ID: 480-22258-6
Client Matrix: Water

Date Sampled: 07/06/2012 1338
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12957.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1838			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	8.4	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-02-07/12**

Lab Sample ID: 480-22258-6
Client Matrix: Water

Date Sampled: 07/06/2012 1338
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12957.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1838			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	106		73 - 120

Client Sample ID: **MW-01-07/12**

Lab Sample ID: 480-22258-7
Client Matrix: Water

Date Sampled: 07/06/2012 1458
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1900			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	8.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **MW-01-07/12**

Lab Sample ID: 480-22258-7
Client Matrix: Water

Date Sampled: 07/06/2012 1458
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1900			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	111		71 - 126
4-Bromofluorobenzene (Surr)	108		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-22258-8
Client Matrix: Water

Date Sampled: 07/06/2012 0000
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12959.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1923			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-22258-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-22258-8
Client Matrix: Water

Date Sampled: 07/06/2012 0000
Date Received: 07/06/2012 1705

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G12959.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1923			Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-22258-1	MW-07S-07/12	113	110	106
480-22258-2	MW-07D-07/12	118	111	106
480-22258-3	MW-06S-07/12	117	112	110
480-22258-3 DL	MW-06S-07/12 DL	112	108	103
480-22258-4	MW-06D-07/12	116	110	107
480-22258-5	MW-04-07/12	112	108	106
480-22258-6	MW-02-07/12	115	108	106
480-22258-7	MW-01-07/12	117	111	108
480-22258-8	TRIP BLANK	112	108	103
MB 480-71947/5		110	108	104
MB 480-72003/5		112	109	107
LCS 480-71947/4		112	114	112
LCS 480-72003/4		111	110	110

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: URS Corporation

Job Number: 480-22258-1

Method Blank - Batch: 480-71947

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-71947/5	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12947.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1422	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1422				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-22258-1

Method Blank - Batch: 480-71947

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-71947/5	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12947.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1422	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1422				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	66 - 137
Toluene-d8 (Surr)	108	71 - 126
4-Bromofluorobenzene (Surr)	104	73 - 120

Lab Control Sample - Batch: 480-71947

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-71947/4	Analysis Batch:	480-71947	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12946.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 1359	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 1359				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	26.6	106	71 - 129	
1,1-Dichloroethene	25.0	24.0	96	65 - 138	
1,2-Dichlorobenzene	25.0	26.1	104	77 - 120	
1,2-Dichloroethane	25.0	27.8	111	75 - 127	
Benzene	25.0	26.5	106	71 - 124	
Chlorobenzene	25.0	27.6	110	72 - 120	
cis-1,2-Dichloroethene	25.0	26.3	105	74 - 124	
Ethylbenzene	25.0	27.7	111	77 - 123	
Methyl tert-butyl ether	25.0	23.0	92	64 - 127	
Tetrachloroethene	25.0	27.7	111	74 - 122	
Toluene	25.0	27.3	109	70 - 122	
trans-1,2-Dichloroethene	25.0	26.4	106	73 - 127	
Trichloroethene	25.0	26.4	106	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	66 - 137
Toluene-d8 (Surr)	114	71 - 126
4-Bromofluorobenzene (Surr)	112	73 - 120

Client: URS Corporation

Job Number: 480-22258-1

Method Blank - Batch: 480-72003

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-72003/5	Analysis Batch:	480-72003	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12970.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 2342	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 2342				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-22258-1

Method Blank - Batch: 480-72003

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-72003/5	Analysis Batch:	480-72003	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12970.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 2342	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 2342				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	66 - 137
Toluene-d8 (Surr)	109	71 - 126
4-Bromofluorobenzene (Surr)	107	73 - 120

Lab Control Sample - Batch: 480-72003

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-72003/4	Analysis Batch:	480-72003	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G12969.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2012 2320	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2012 2320				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.1	100	71 - 129	
1,1-Dichloroethene	25.0	24.0	96	65 - 138	
1,2-Dichlorobenzene	25.0	25.1	100	77 - 120	
1,2-Dichloroethane	25.0	26.1	104	75 - 127	
Benzene	25.0	25.3	101	71 - 124	
Chlorobenzene	25.0	25.2	101	72 - 120	
cis-1,2-Dichloroethene	25.0	24.9	100	74 - 124	
Ethylbenzene	25.0	25.6	102	77 - 123	
Methyl tert-butyl ether	25.0	23.1	92	64 - 127	
Tetrachloroethene	25.0	25.4	102	74 - 122	
Toluene	25.0	25.2	101	70 - 122	
trans-1,2-Dichloroethene	25.0	25.4	102	73 - 127	
Trichloroethene	25.0	24.8	99	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	66 - 137
Toluene-d8 (Surr)	110	71 - 126
4-Bromofluorobenzene (Surr)	110	73 - 120

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 480-22258-1

Lab Section	Qualifier	Description
GC/MS VOA		
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: URS Corporation

Job Number: 480-22258-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-71947					
LCS 480-71947/4	Lab Control Sample	T	Water	8260B	
MB 480-71947/5	Method Blank	T	Water	8260B	
480-22258-1	MW-07S-07/12	T	Water	8260B	
480-22258-2	MW-07D-07/12	T	Water	8260B	
480-22258-3	MW-06S-07/12	T	Water	8260B	
480-22258-4	MW-06D-07/12	T	Water	8260B	
480-22258-5	MW-04-07/12	T	Water	8260B	
480-22258-6	MW-02-07/12	T	Water	8260B	
480-22258-7	MW-01-07/12	T	Water	8260B	
480-22258-8	TRIP BLANK	T	Water	8260B	
Analysis Batch:480-72003					
LCS 480-72003/4	Lab Control Sample	T	Water	8260B	
MB 480-72003/5	Method Blank	T	Water	8260B	
480-22258-3DL	MW-06S-07/12	T	Water	8260B	

Report Basis
T = Total

Client: URS Corporation

Job Number: 480-22258-1

Laboratory Chronicle

Lab ID: 480-22258-1 **Client ID:** MW-07S-07/12

Sample Date/Time: 07/05/2012 17:28 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-A-1		480-71947		07/11/2012 16:44	1	TAL BUF	RL
A:8260B	480-22258-A-1		480-71947		07/11/2012 16:44	1	TAL BUF	RL

Lab ID: 480-22258-2 **Client ID:** MW-07D-07/12

Sample Date/Time: 07/05/2012 18:17 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-C-2		480-71947		07/11/2012 17:07	1	TAL BUF	RL
A:8260B	480-22258-C-2		480-71947		07/11/2012 17:07	1	TAL BUF	RL

Lab ID: 480-22258-3 **Client ID:** MW-06S-07/12

Sample Date/Time: 07/06/2012 10:35 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-A-3		480-71947		07/11/2012 17:30	100	TAL BUF	RL
A:8260B	480-22258-A-3		480-71947		07/11/2012 17:30	100	TAL BUF	RL
P:5030B	480-22258-B-3	DL	480-72003		07/12/2012 02:25	250	TAL BUF	RJ
A:8260B	480-22258-B-3	DL	480-72003		07/12/2012 02:25	250	TAL BUF	RJ

Lab ID: 480-22258-4 **Client ID:** MW-06D-07/12

Sample Date/Time: 07/06/2012 11:20 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-C-4		480-71947		07/11/2012 17:52	200	TAL BUF	RL
A:8260B	480-22258-C-4		480-71947		07/11/2012 17:52	200	TAL BUF	RL

Lab ID: 480-22258-5 **Client ID:** MW-04-07/12

Sample Date/Time: 07/06/2012 12:28 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-B-5		480-71947		07/11/2012 18:15	1	TAL BUF	RL
A:8260B	480-22258-B-5		480-71947		07/11/2012 18:15	1	TAL BUF	RL

Lab ID: 480-22258-6 **Client ID:** MW-02-07/12

Sample Date/Time: 07/06/2012 13:38 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-A-6		480-71947		07/11/2012 18:38	1	TAL BUF	RL
A:8260B	480-22258-A-6		480-71947		07/11/2012 18:38	1	TAL BUF	RL

Client: URS Corporation

Job Number: 480-22258-1

Laboratory Chronicle

Lab ID: 480-22258-7 **Client ID:** MW-01-07/12

Sample Date/Time: 07/06/2012 14:58 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-C-7		480-71947		07/11/2012 19:00	1	TAL BUF	RL
A:8260B	480-22258-C-7		480-71947		07/11/2012 19:00	1	TAL BUF	RL

Lab ID: 480-22258-8 **Client ID:** TRIP BLANK

Sample Date/Time: 07/06/2012 00:00 Received Date/Time: 07/06/2012 17:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-22258-A-8		480-71947		07/11/2012 19:23	1	TAL BUF	RL
A:8260B	480-22258-A-8		480-71947		07/11/2012 19:23	1	TAL BUF	RL

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-71947/5		480-71947		07/11/2012 14:22	1	TAL BUF	RL
A:8260B	MB 480-71947/5		480-71947		07/11/2012 14:22	1	TAL BUF	RL
P:5030B	MB 480-72003/5		480-72003		07/11/2012 23:42	1	TAL BUF	RJ
A:8260B	MB 480-72003/5		480-72003		07/11/2012 23:42	1	TAL BUF	RJ

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-71947/4		480-71947		07/11/2012 13:59	1	TAL BUF	RL
A:8260B	LCS 480-71947/4		480-71947		07/11/2012 13:59	1	TAL BUF	RL
P:5030B	LCS 480-72003/4		480-72003		07/11/2012 23:20	1	TAL BUF	RJ
A:8260B	LCS 480-72003/4		480-72003		07/11/2012 23:20	1	TAL BUF	RJ

Lab References:
TAL BUF = TestAmerica Buffalo



September 2012 Groundwater Sampling Report

for the Former Dowell Facility 3311 Walden Avenue Depew, New York

prepared for:

Volunteers

Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203



October 2012

G3957Q

SEPTEMBER 2012 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

VOLUNTEERS
DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
DOWELL SCHLUMBERGER INCORPORATED
THE DOW CHEMICAL COMPANY
(VCA INDEX NO. B9-0586-00-10)

Prepared by:

URS CORPORATION
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BUFFALO, NEW YORK 14203

October 2012

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Appendix B	Field Notes
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1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of $H_2O_2/Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the $H_2O_2/Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the $H_2O_2/Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the September 2012 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

As required by the SMP, URS collected groundwater samples from monitoring wells MW-06S, MW-06D, MW-07S and MW-07D on September 27, 2012 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- Four VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06S: Chloroethane at 220 µg/L, 1,1-DCE at 100 µg/L (estimated), 1,1-DCA at 7,900 µg/L and 1,1,1-TCA at 390 µg/L.
- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06D: Chloroethane at 470 µg/L, 1,1-DCA at 18,000 µg/L and 1,1,1-TCA at 320 µg/L.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07S.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07D.

2.2.2 Comparison With Previous Results

The results of the URS analysis have been compared with the results from the July 2012 groundwater sampling event for monitoring wells MW-06S/D and MW-07S/D. This comparison indicated the following:

- Monitoring Well MW-06S – The concentration of Chloroethane decreased from 430 µg/L in July 2012 to 220 µg/L. The concentration of 1,1-DCE increased from 50

µg/L (estimated) in July 2012 to 100 µg/L (estimated) . The concentration of 1,1-DCA decreased from 12,000 µg/L in July 2012 to 7,900 µg/L. The concentration of 1,1,1-TCA remained at 390 µg/L in both July and September 2012.. These concentrations are within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA.

- Monitoring Well MW-06D – The concentration of Chloroethane increased slightly from 450 µg/L in July 2012 to 470 µg/L. The concentration of 1,1-DCA increased from 16,000 µg/L in July 2012 to 18,000 to µg/L. The concentration of 1,1,1-TCA increased slightly from 300 µg/L in July 2012 to 320 µg/L. These concentrations are within the historic range of concentrations observed since March 2005

- Monitoring Well MW-07S – The concentration of 1,1-DCA increased from not detected in July 2012 to 1 µg/L. This is higher than the range of historical concentrations observed in this well since March 2005.

- Monitoring Well MW-07D - No VOCs were present at concentrations that exceeded the SGCs.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the site are essentially the same as observed during previous sampling events. Flow is still generally from southeast to northwest.

- Groundwater elevations throughout the soil removal area are at approximately 100 feet. This indicates that the excavation area is still acting as a “bathtub”, with groundwater levels at essentially the same elevation throughout.

- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.

- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

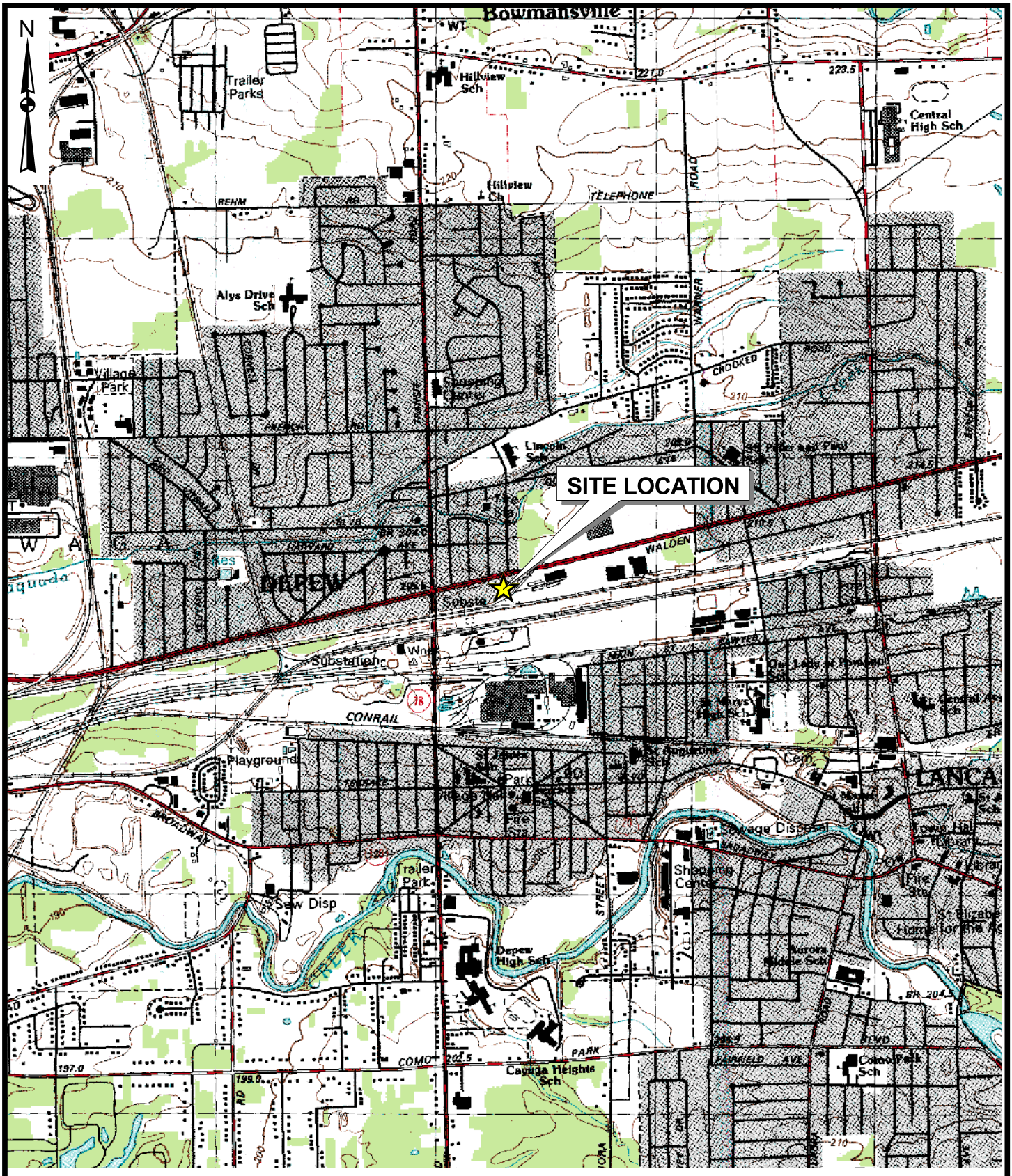
2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the site is still from the southeast.

- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation, groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).

- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

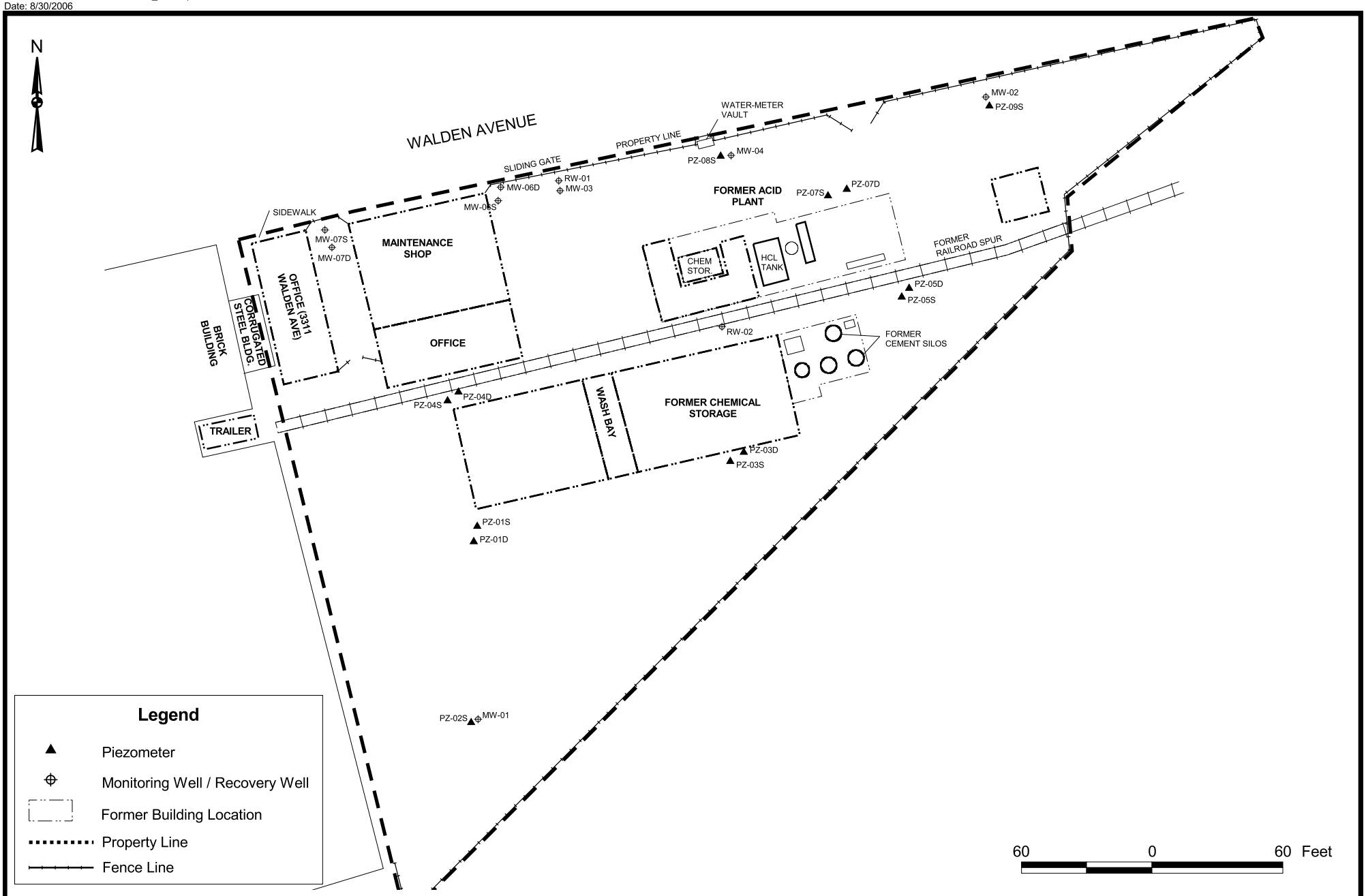
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

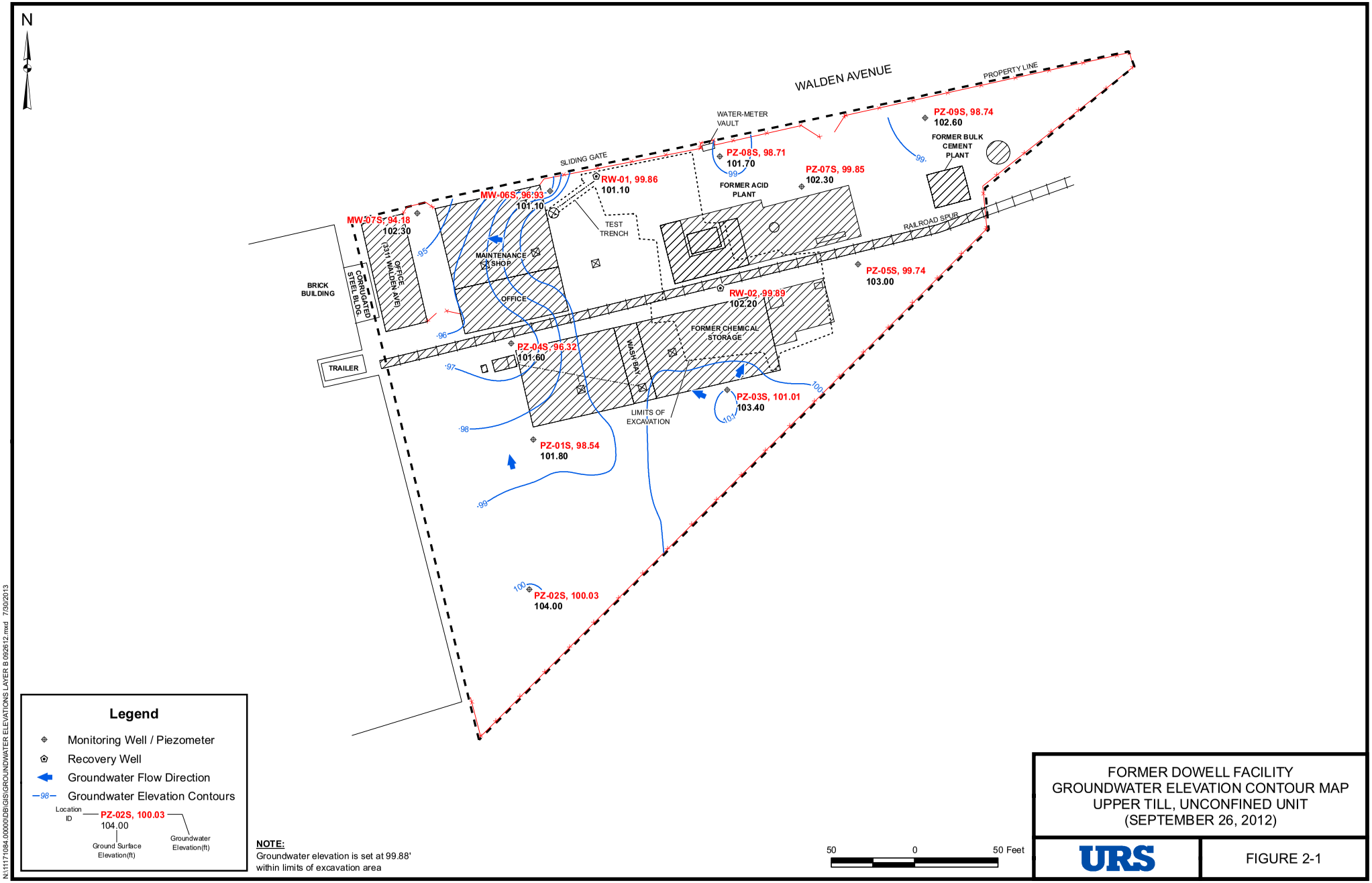
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006



URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2


N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
PZ-09S, 98.74
102.60
FORMER BULK CEMENT PLANT
PZ-08S, 98.71
101.70
PZ-07S, 99.85
102.30
RW-01, 99.86
101.10
MW-06S, 96.93
101.10
FORMER ACID PLANT
TEST TRENCH
MW-07S, 94.18
102.30
RAILROAD SPUR
MAINTENANCE SHOP
OFFICE (2311 WALDEN AVE)
BRICK BUILDING
CORRUGATED STEEL BLDG.
OFFICE
PZ-05S, 99.74
103.00
RW-02, 99.89
102.20
FORMER CHEMICAL STORAGE
PZ-04S, 96.32
101.60
WASH BAY
TRAILER
PZ-03S, 101.01
103.40
LIMITS OF EXCAVATION
PZ-01S, 98.54
101.80
PZ-02S, 100.03
104.00
95
96
97
98
99
100
101
99
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
98
Groundwater Elevation Contours
Location ID
PZ-02S, 100.03
104.00
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 99.88' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(SEPTEMBER 26, 2012)
URS
FIGURE 2-1
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 092612.mxd 7/30/2013

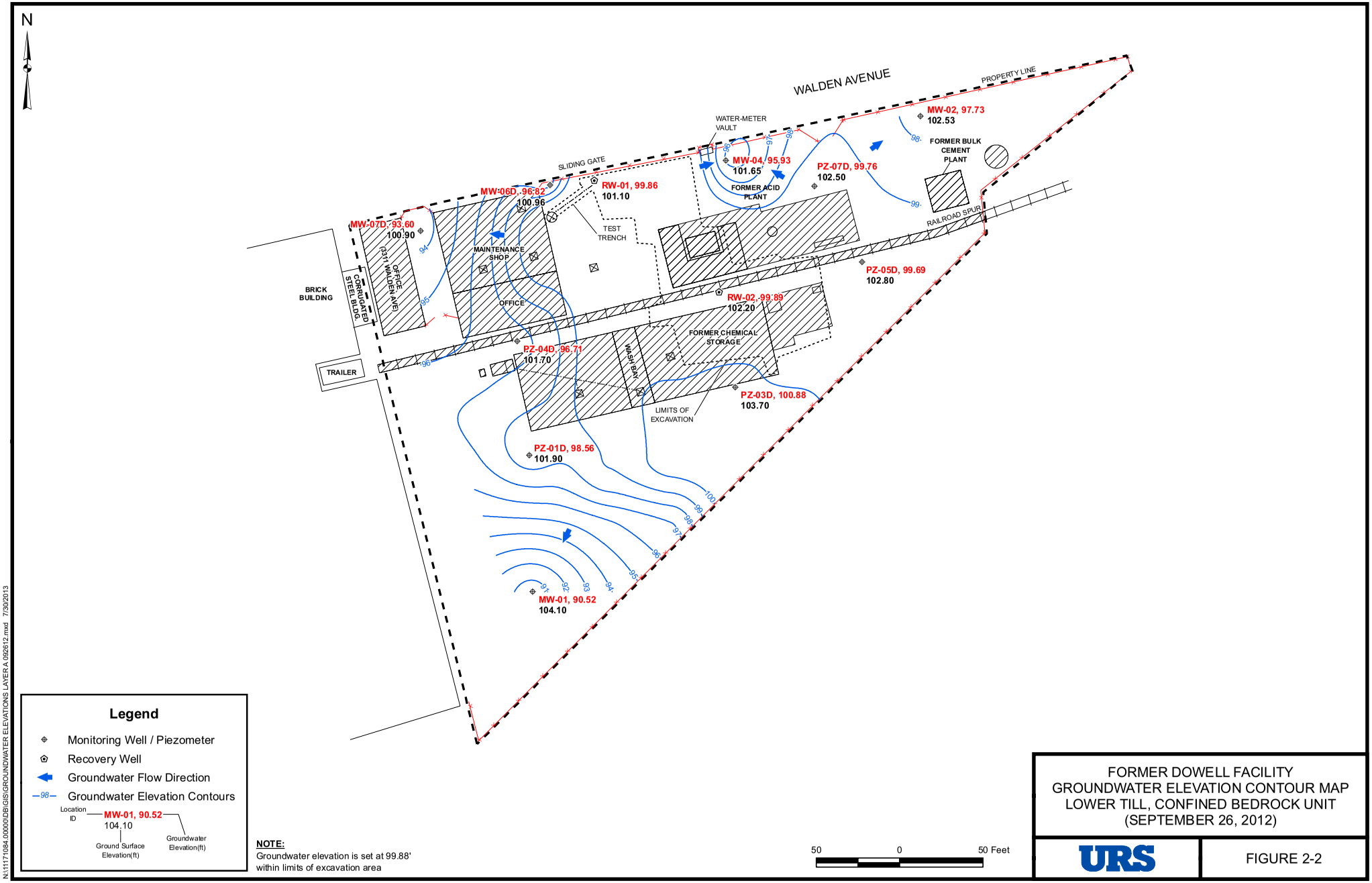

N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
MW-02, 97.73
102.53
FORMER BULK CEMENT PLANT
MW-04, 95.93
101.65
PZ-07D, 99.76
102.50
FORMER ACID PLANT
MW-06D, 96.82
100.96
RW-01, 99.86
101.10
TEST TRENCH
RAILROAD SPUR
MW-07D, 93.60
100.90
MAINTENANCE SHOP
(5311 WALDEN AVE)
OFFICE
CORRUGATED STEEL BLDG.
BRICK BUILDING
OFFICE
PZ-05D, 99.69
102.80
RW-02, 99.89
102.20
FORMER CHEMICAL STORAGE
PZ-04D, 96.71
101.70
WASH BAY
TRAILER
PZ-03D, 100.88
103.70
LIMITS OF EXCAVATION
PZ-01D, 98.56
101.90
MW-01, 90.52
104.10
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
Groundwater Elevation Contours
Location ID
MW-01, 90.52
104.10
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 99.88' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(SEPTEMBER 26, 2012)
URS
FIGURE 2-2
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 092612.mxd 7/30/2013

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12
Chloroethane	UG/L	NS
Vinyl Chloride	UG/L	NS
Methylene Chloride	UG/L	NS
Acetone	UG/L	NS
1,1-Dichloroethene	UG/L	NS
1,1-Dichloroethane	UG/L	NS
1,2-Dichloroethene (total)	UG/L	NS
1,2-Dichloroethane	UG/L	NS
1,1,1-Trichloroethane	UG/L	NS
Total VOCs	UG/L	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12
Chloroethane	UG/L	NS	NS	U	NS	NS	U	NS
Vinyl Chloride	UG/L	NS	NS	U	NS	NS	U	NS
Methylene Chloride	UG/L	NS	NS	U	NS	NS	U	NS
Acetone	UG/L	NS	NS	U	NS	NS	U	NS
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS	U	NS
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS	U	NS
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS	U	NS
Total VOCs	UG/L	NS	NS	U	NS	NS	U	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12
Chloroethane	UG/L	NS
Vinyl Chloride	UG/L	NS
Methylene Chloride	UG/L	NS
Acetone	UG/L	NS
1,1-Dichloroethene	UG/L	NS
1,1-Dichloroethane	UG/L	NS
1,2-Dichloroethene (total)	UG/L	NS
1,2-Dichloroethane	UG/L	NS
1,1,1-Trichloroethane	UG/L	NS
Total VOCs	UG/L	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12
Chloroethane	UG/L	U	U	U	U	120 J	150	430	220
Vinyl Chloride	UG/L	U	U	U	U	3.1	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79	50 J	100 J
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500	12,000	7,900
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250	390	390
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U	U	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979	12,870	8610

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12
Chloroethane	UG/L	U	U	U	U	280	260	450	470
Vinyl Chloride	UG/L	U	U	U	U	6	U	U	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U	U	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000	16,000	18,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220	300	320
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U	U	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480	16,750	18,790

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12
Chloroethane	UG/L	U
Vinyl Chloride	UG/L	U
Methylene Chloride	UG/L	U
Acetone	UG/L	U
1,1-Dichloroethene	UG/L	U
1,1-Dichloroethane	UG/L	1
1,2-Dichloroethene (total)	UG/L	U
1,2-Dichloroethane	UG/L	U
1,1,1-Trichloroethane	UG/L	U
Total VOCs	UG/L	1

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL

NS = not sampled
NI = Not Installed
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12
Chloroethane	UG/L	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U	U	U
Acetone	UG/L	NS	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U	U	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12
Chloroethane	UG/L	NS
Vinyl Chloride	UG/L	NS
Methylene Chloride	UG/L	NS
Acetone	UG/L	NS
1,1-Dichloroethene	UG/L	NS
1,1-Dichloroethane	UG/L	NS
1,2-Dichloroethene (total)	UG/L	NS
1,2-Dichloroethane	UG/L	NS
1,1,1-Trichloroethane	UG/L	NS
Cyclohexane	UG/L	NS
Methylcyclohexane	UG/L	NS
1,2-Dichlorobenzene	UG/L	NS
Total VOCs	UG/L	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
								7/5/2012 0000	12.35	91.45	0.00	91.45	
								9/26/2012 1205	13.28	90.52	0.00	90.52	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1	7/16/2001 0000	4.15	98.10	0.00	98.10	
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	
								7/5/2012 0000	5.41	96.84	0.00	96.84	
								9/26/2012 1129	4.52	97.73	0.00	97.73	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1	7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1	7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	
								9/15/2009 0000	7.19	94.06	0.00	94.06	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	
								7/5/2012 0000	5.94	95.31	0.00	95.31	
								9/26/2012 1145	5.32	95.93	0.00	95.93	
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	5.62	94.76	0.00	94.76	
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	
								7/5/2012 0000	1.54	98.84	0.00	98.84	
								9/26/2012 1243	3.56	96.82	0.00	96.82	
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1	7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	
								7/5/2012 0000	2.29	98.09	0.00	98.09	
								9/26/2012 1247	3.45	96.93	0.00	96.93	
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1	11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	9.28	90.99	0.00	90.99	
								7/5/2012 0000	5.61	94.66	0.00	94.66	
								9/26/2012 1233	6.67	93.60	0.00	93.60	
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	5.64	94.46	0.00	94.46	
								7/5/2012 0000	4.15	95.95	0.00	95.95	
								9/26/2012 1229	5.92	94.18	0.00	94.18	
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1	7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1	11/3/2005 1117	12.93	92.28	0.00	92.28	
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
								7/5/2012 0000	7.22	97.99	0.00	97.99	
								9/26/2012 1211	6.65	98.56	0.00	98.56	
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	
								6/14/2006 0000	4.71	100.26	0.00	100.26	
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	3.63	101.34	0.00	101.34	
								7/5/2012 0000	7.02	97.95	0.00	97.95	
								9/26/2012 1213	6.43	98.54	0.00	98.54	
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1	11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
								7/5/2012 0000	7.63	100.23	0.00	100.23	
								9/26/2012 1203	7.83	100.03	0.00	100.03	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1	11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
								7/5/2012 0000	5.46	100.27	0.00	100.27	
								9/26/2012 1258	4.85	100.88	0.00	100.88	
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1	11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	
								7/5/2012 0000	6.11	100.21	0.00	100.21	
								9/26/2012 1256	5.31	101.01	0.00	101.01	
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1	11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
								7/5/2012 0000	7.61	97.19	0.00	97.19	
								9/26/2012 1218	8.09	96.71	0.00	96.71	
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
								7/5/2012 0000	7.59	97.08	0.00	97.08	
								9/26/2012 1220	8.35	96.32	0.00	96.32	
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
								7/5/2012 0000	6.04	100.16	0.00	100.16	
								9/26/2012 1151	6.51	99.69	0.00	99.69	
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	3.28	102.15	0.00	102.15	
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
								7/5/2012 0000	5.51	99.92	0.00	99.92	
								9/26/2012 1152	5.69	99.74	0.00	99.74	
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	
								9/23/2008 0000	4.74	100.36	0.00	100.36	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
								7/5/2012 0000	5.89	99.21	0.00	99.21	
								9/26/2012 1133	5.34	99.76	0.00	99.76	
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	
								2/28/2012 0000	4.41	100.84	0.00	100.84	
								7/5/2012 0000	5.87	99.38	0.00	99.38	
								9/26/2012 1135	5.40	99.85	0.00	99.85	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1	11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	
								3/9/2006 0000	3.52	101.56	0.00	101.56	
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	
								7/5/2012 0000	6.27	98.81	0.00	98.81	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/26/2012 1139	6.37	98.71	0.00	98.71	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1	11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	
								3/13/2007 0000	4.64	101.74	0.00	101.74	
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
								7/5/2012 0000	7.42	98.96	0.00	98.96	
								9/26/2012 1121	7.64	98.74	0.00	98.74	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	
								12/11/2007 0000	3.02	100.88	0.00	100.88	
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1250	4.04	99.86	0.00	99.86	
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1	11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	
								2/28/2012 0000	3.39	101.33	0.00	101.33	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1253	4.83	99.89	0.00	99.89	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to September 2012.

3.2 Recommendations

The September 27, 2012 monitoring event is the third quarterly event since the issuance of the Certificate of Completion in December 2011. Based on the above discussions, it is recommended that:

- The SMP states that "beginning after the Certificate of Completion is issued by the NYSDEC, quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH".

- Quarterly groundwater sampling and site inspections should continue until six quarters of sampling have been conducted. At that time, groundwater sampling frequency and duration will be evaluated and discussed with the NYSDEC.

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06S

Date: 09/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.24 Depth to Well Bottom: 19.70 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 8.9 L Estimated Purge Volume: 9.5 L

Sample ID: MW-06S-09/12 Sample Time: 1248 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1151	6.96	19.00	1.97	3.03	7.0	70	250	9.69
1155	6.74	18.82	1.93	2.86	7.0	84	150	10.04
1200	6.71	18.86	1.93	2.65	7.0	87	150	10.06
1205	6.71	19.00	1.96	2.45	6.0	86	150	10.06
1210	6.71	19.02	1.97	2.11	5.0	79	150	10.08
1215	6.70	19.66	1.99	1.41	4.0	73	150	10.06
1220	6.70	20.18	2.04	0.53	5.0	69	150	9.99
1225	6.69	20.63	2.06	0.32	5.0	63	150	10.01
1230	6.69	20.64	2.09	0.06	4.0	55	150	10.05
1235	6.69	20.87	2.10	0.04	4.0	52	150	10.06
1240	6.69	20.89	2.06	0.54	4.0	52	150	10.13
1245	6.69	21.14	2.05	0.56	4.0	51	150	10.12
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 9/16-inch bolts. Both are stripped.

NM = Not recorded.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 09/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 2.95 Depth to Well Bottom: 29.40 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing: 4.3 L Estimated Purge Volume: 4.3 L

Sample ID: MW-06D-09/12 Sample Time: 1145 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1035	7.02	16.28	3.64	0.02	14	-56	200	4.19
1040	6.77	16.80	3.41	0.00	12	-69	200	4.69
1045	6.71	17.05	3.29	0.00	10	-73	200	5.52
1050	6.70	17.29	3.21	0.00	8	-75	200	6.85
1055	No readings. Changed batteries in meter.							
1100	6.70	17.52	3.14	0.00	6	-74	200	8.35
1105	6.70	17.55	3.14	0.00	4	-74	200	9.06
1110	6.69	17.53	3.15	0.00	3	-73	200	9.61
1115	6.69	17.72	3.12	0.00	3	-70	200	10.38
1120	6.69	17.80	3.11	0.00	3	-75	200	10.40
1125	6.69	17.61	3.13	0.00	3	-75	200	10.32
1130	6.69	17.54	3.13	0.00	3	-76	200	10.42
1135	6.69	17.68	3.14	0.00	2	-72	200	10.65
1140	6.69	17.65	3.14	0.00	2	-70	200	10.88
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 3/4-inch bolts.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07S

Date: 09/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.80 Depth to Well Bottom: 18.80 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 8 L Estimated Purge Volume: 8 L

Sample ID: MW-07S-09/12 Sample Time: 1528 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1435	7.02	19.74	0.958	0.00	2.5	-30	210	6.60
1440	6.91	19.87	0.964	0.00	2.0	-39	150	7.39
1445	6.90	19.86	0.959	0.00	3.5	-42	150	8.40
1450	6.89	19.51	0.971	0.00	3.8	-42	150	9.36
1455	6.88	19.58	0.968	0.00	3.7	-41	150	9.36
1500	6.90	19.52	0.958	0.00	3.7	-24	150	9.36
1505	6.90	19.58	0.955	0.00	3.5	-16	150	9.36
1510	6.90	19.69	0.964	0.00	3.6	-4	150	9.36
1515	6.90	19.70	0.972	0.00	4.0	6	150	9.37
1520	6.90	19.80	0.974	0.00	4.5	9.0	150	9.37
1525	6.90	19.80	0.976	0.00	4.9	10	150	9.37
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-07D.
4. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07D

Date: 09/27/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 6.60 Depth to Well Bottom: 30.02 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 14.5 L Estimated Purge Volume: 12 L

Sample ID: MW-07D-09/12 Sample Time: 1422 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1325	7.30	24.35	0.681	0.93	42.0	-66	200	7.55
1330	7.27	22.45	0.687	0.00	39.0	-85	200	8.66
1335	7.26	21.44	0.727	0.00	3.0	-92	200	10.47
1340	7.24	19.91	0.723	0.00	2.0	-83	200	11.66
1345	7.24	20.10	0.719	0.00	1.0	-78	200	12.28
1350	7.27	19.75	0.721	0.00	1.0	-70	200	13.41
1355	7.22	19.98	0.717	0.00	1.0	-66	200	14.54
1400	7.21	19.28	0.725	0.00	1.0	-64	200	15.58
1405	7.19	19.55	0.718	0.00	1.0	-64	200	16.40
1410	7.21	19.41	0.721	0.00	1.0	-62	200	17.41
1415	7.21	19.13	0.729	0.00	1.0	-61	200	18.39
1420	7.21	18.86	0.731	0.00	1.0	-60	200	19.11
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

APPENDIX B

FIELD NOTES

9/26/12 - Wednesday. WX Partly Cloudy - Temp in 60's F
Personnel John Boyd RS
1030 arrived at the site. Inspected the gate and fences took photographs of property along Walden Ave and in the interior. Snapped off locks (frozen-rust) to RW-1+2
1120. Set up for well gauging

TIME	Well	DTW	Total Depth	Comments
1250	RW-1	4.04	18.32	Muddy bottom
1253	RW-2	4.83	15.62	
1213	PZ-01S	6.43	14.93	
1211	PZ-01D	6.65	26.90	
1203	PZ02S	7.83	16.43	Muddy bottom
1256	PZ03S	5.31	14.81	
	PZ03D	4.85	26.79	
	PZ04S	8.35	14.93	
	PZ04D	8.09	26.90	
	PZ-05S	5.69	14.80	
	PZ-05D	6.51	26.60	
	PZ-07S	5.40	14.61	
	PZ07D	5.34	26.86	
	PZ08S	6.37	14.81	
	PZ-09S	7.64	15.81	
	MW-01	13.38	28.95	
	MW-02	4.52	26.38	Road Box filled w/ water 7/8 bolt
	MW-04	5.32	27.52	" " "
	MW-06S	3.45	19.70	
	MW-06D	3.56	29.40	filled w/water (Roadbox)
	MW-07S	5.92	18.80	" "
	MW-07D	6.67	30.02	

1305 - walked fences at nearby site to see how deep getting in hole
Found all of them S.W. Corner
1342 - Left the site
1355 - Arrived at work

Continued on Page

Read and Understood By

Signed Date Signed Date

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PROJECT Dowell Walden Ave

Notebook No.

Continued From Page

9/27/12 Thursday.
WX. Partly cloudy. Temp in 60°F
Personnel: John Boyd ORS
0915 - arrived at the site. Set up equipment for sampling
0945 - Drove to get gasoline for rental Van when it was discovered that the geo pump battery was dead.
1005 - Back at the site
1030 - Began purging MW-06D
1145 - Collected sample MW-06D-09/12
1149 Began purging MW-06S.
1248 Collected sample MW-06S-09/12
1320 Began purging MW-07D
1422 Collected sample MW-07D-09/12
1433 Began purging MW-07S
1528 Collected sample MW-07S-09/12
1600 - Left site - Drove to ORS office
1618 - Arrived at ORS office

Continued on Page

Read and Understood By

John Boyd — Signed
9/27/12 — Date
Signed
Date

PROJECT Dowell Walden Ave. Notebook No. 29

Continued From Page

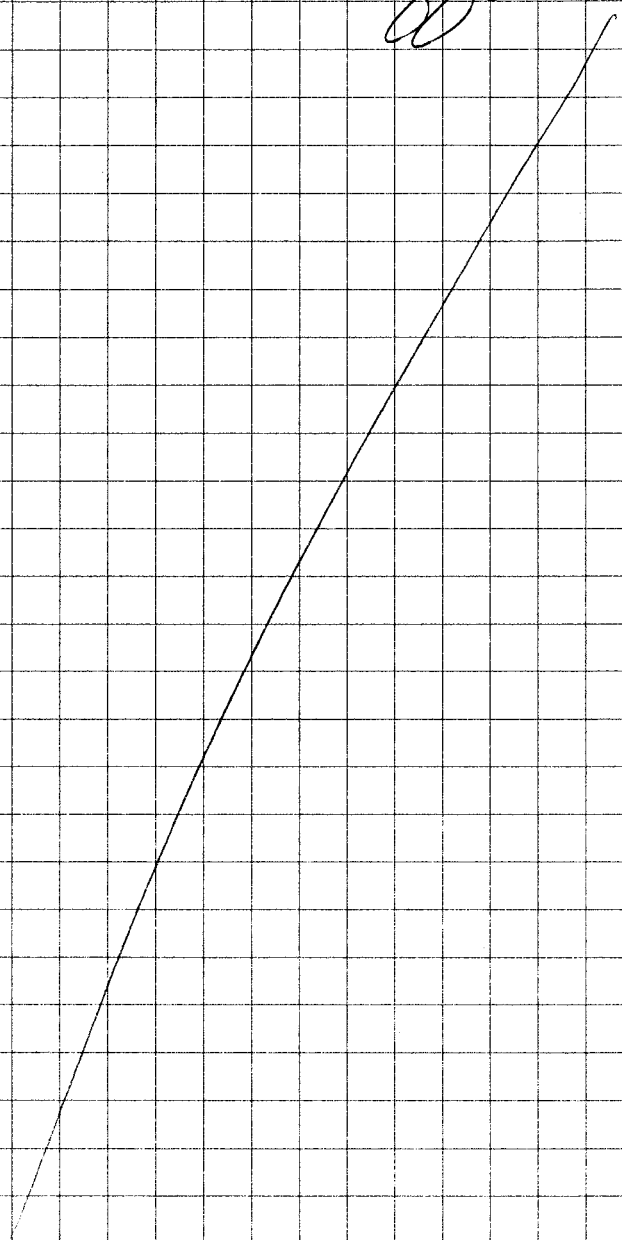
9/28/12. wx: cloudy - Temp in 60°F

Personnel Tom Boyd MS

1030 - Drive to TEST America Labs.

1100 Dropped off ground water samples

1135 - Back at DRS office



Continued on Page

Read and Understood By

Signed Date Signed Date

Tom Boyd 9/28/12

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PROJECT Dowell Walden Ave. Notebook No. _____
Continued From Page _____

~~OR~~ 10/1/12 Monday.
WX. Partly Cloudy - Temps in 60°F.
0900 TomBoyd, ORS arrived at the site after picking up a rental car and loading Equipment. Tom ORSan was waiting onsite.
0935- Began picking up Trash / Litter Along Walden Ave, the full length of the property.
When finished outside the fence moved to and picked up Trash / Litter along the inside of the perimeter fence.
1530. Finished with the Trash / Litter pickup. Collected 8 full contractor bags of Trash / Litter.
1548 JohnBoyd + Tom left the site. JohnBoyd drove to ORS office and placed the Trash in the onsite dumpster.

Continued on Page

Read and Understood By

John Boyd 10/1/12
Signed Date Signed Date

APPENDIX C

ANALYTICAL DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-25869-1

Job Description: URS-Dowell Facility

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: John Boyd

Approved for release.
Robert Wienke
Project Administrator
10/11/2012 12:54 PM

Designee for
Melissa L Deyo
Project Manager I
melissa.deyo@testamericainc.com
10/11/2012

cc: Mr. Peter R Fairbanks
Mr. George Kisluk

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-25869-1

Comments
No additional comments.

Receipt
The samples were received on 9/28/2012 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-25869-1 MS), (480-25869-1 MSD), MW-06D-09/12 (480-25869-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Due to the high concentration of 1,1-Dichloroethane, the matrix spike duplicate (MSD) for batch 84214 could not be evaluated for accuracy and precision for this analyte. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-06S-09/12 (480-25869-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-25869-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-25869-1	MW-06D-09/12	Water	09/27/2012 1145	09/28/2012 1100
480-25869-2	MW-06S-09/12	Water	09/27/2012 1248	09/28/2012 1100
480-25869-3	MW-07D-09/12	Water	09/27/2012 1422	09/28/2012 1100
480-25869-4	MW-07S-09/12	Water	09/27/2012 1528	09/28/2012 1100
480-25869-5	TRIP BLANK	Water	09/27/2012 0000	09/28/2012 1100

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-25869-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-25869-1	**MW-06D-09/12**					
1,1,1-Trichloroethane		320		200	ug/L	8260B
1,1-Dichloroethane		18000		200	ug/L	8260B
Chloroethane		470		200	ug/L	8260B
480-25869-2	**MW-06S-09/12**					
1,1,1-Trichloroethane		390		130	ug/L	8260B
1,1-Dichloroethane		7900		130	ug/L	8260B
1,1-Dichloroethene		100	J	130	ug/L	8260B
Chloroethane		220		130	ug/L	8260B
480-25869-4	**MW-07S-09/12**					
1,1-Dichloroethane		1.0		1.0	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-25869-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-25869-1

Method	Analyst	Analyst ID
SW846 8260B	Hill, Leah	LH
SW846 8260B	Jones, Rebecca	RJ

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-06D-09/12**

Lab Sample ID: 480-25869-1
Client Matrix: Water

Date Sampled: 09/27/2012 1145
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1925.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1358			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1358				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	320		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	18000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	470		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-06D-09/12**

Lab Sample ID: 480-25869-1
Client Matrix: Water

Date Sampled: 09/27/2012 1145
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1925.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1358			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1358				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	109		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-06S-09/12**

Lab Sample ID: 480-25869-2
Client Matrix: Water

Date Sampled: 09/27/2012 1248
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84360	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N0476.D
Dilution:	125			Initial Weight/Volume:	5 mL
Analysis Date:	10/08/2012 1254			Final Weight/Volume:	5 mL
Prep Date:	10/08/2012 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	390		100	130
1,1,2,2-Tetrachloroethane	ND		26	130
1,1,2-Trichloroethane	ND		29	130
1,1,2-Trichlorotrifluoroethane	ND		39	130
1,1-Dichloroethane	7900		48	130
1,1-Dichloroethene	100	J	36	130
1,2,4-Trichlorobenzene	ND		51	130
1,2-Dibromo-3-Chloropropane	ND		49	130
1,2-Dibromoethane (EDB)	ND		91	130
1,2-Dichlorobenzene	ND		99	130
1,2-Dichloroethane	ND		26	130
1,2-Dichloropropane	ND		90	130
1,3-Dichlorobenzene	ND		98	130
1,4-Dichlorobenzene	ND		110	130
2-Hexanone	ND		160	630
2-Butanone (MEK)	ND		170	1300
1,2-Dichloroethene, Total	ND		88	250
4-Methyl-2-pentanone (MIBK)	ND		260	630
Acetone	ND		380	1300
Benzene	ND		51	130
Bromodichloromethane	ND		49	130
Bromoform	ND		33	130
Bromomethane	ND		86	130
Carbon disulfide	ND		24	130
Carbon tetrachloride	ND		34	130
Chlorobenzene	ND		94	130
Chlorodibromomethane	ND		40	130
Chloroethane	220		40	130
Chloroform	ND		43	130
Chloromethane	ND		44	130
cis-1,2-Dichloroethene	ND		100	130
cis-1,3-Dichloropropene	ND		45	130
Cyclohexane	ND		23	130
Dichlorodifluoromethane	ND		85	130
Ethylbenzene	ND		93	130
Isopropylbenzene	ND		99	130
Methyl acetate	ND		63	130
Methyl tert-butyl ether	ND		20	130
Methylcyclohexane	ND		20	130
Methylene Chloride	ND		55	130
Styrene	ND		91	130
Tetrachloroethene	ND		45	130
Toluene	ND		64	130
trans-1,2-Dichloroethene	ND		110	130
trans-1,3-Dichloropropene	ND		46	130
Trichloroethene	ND		58	130

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-06S-09/12**

Lab Sample ID: 480-25869-2
Client Matrix: Water

Date Sampled: 09/27/2012 1248
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84360	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N0476.D
Dilution:	125			Initial Weight/Volume:	5 mL
Analysis Date:	10/08/2012 1254			Final Weight/Volume:	5 mL
Prep Date:	10/08/2012 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		110	130
Vinyl chloride	ND		110	130
Xylenes, Total	ND		83	250

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	105		71 - 126
4-Bromofluorobenzene (Surr)	92		73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-07D-09/12**

Lab Sample ID: 480-25869-3
Client Matrix: Water

Date Sampled: 09/27/2012 1422
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1927.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1445			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1445				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-07D-09/12**

Lab Sample ID: 480-25869-3
Client Matrix: Water

Date Sampled: 09/27/2012 1422
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1927.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1445			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1445				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
Toluene-d8 (Surr)	110		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-07S-09/12**

Lab Sample ID: 480-25869-4
Client Matrix: Water

Date Sampled: 09/27/2012 1528
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1928.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1509			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1509				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1.0		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **MW-07S-09/12**

Lab Sample ID: 480-25869-4
Client Matrix: Water

Date Sampled: 09/27/2012 1528
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1928.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1509			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1509				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-25869-5
Client Matrix: Water

Date Sampled: 09/27/2012 0000
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1929.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1533			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1533				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-25869-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-25869-5
Client Matrix: Water

Date Sampled: 09/27/2012 0000
Date Received: 09/28/2012 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T1929.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1533			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1533				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-25869-1	MW-06D-09/12	103	109	99
480-25869-2	MW-06S-09/12	105	105	92
480-25869-3	MW-07D-09/12	101	110	100
480-25869-4	MW-07S-09/12	103	108	98
480-25869-5	TRIP BLANK	104	108	99
MB 480-84214/5		99	108	96
MB 480-84360/5		104	105	91
LCS 480-84214/4		104	110	103
LCS 480-84360/4		102	106	90
480-25869-1 MS	MW-06D-09/12 MS	106	113	104
480-25869-1 MSD	MW-06D-09/12 MSD	106	110	104

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: URS Corporation

Job Number: 480-25869-1

Method Blank - Batch: 480-84214

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-84214/5	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1917.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1039	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1039				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-25869-1

Method Blank - Batch: 480-84214

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-84214/5	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1917.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1039	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1039				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	66 - 137
Toluene-d8 (Surr)	108	71 - 126
4-Bromofluorobenzene (Surr)	96	73 - 120

Lab Control Sample - Batch: 480-84214

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-84214/4	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1916.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1015	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1015				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.0	96	71 - 129	
1,1-Dichloroethene	25.0	19.3	77	58 - 121	
1,2-Dichlorobenzene	25.0	23.9	96	80 - 124	
1,2-Dichloroethane	25.0	23.2	93	75 - 127	
Benzene	25.0	24.0	96	71 - 124	
Chlorobenzene	25.0	23.6	94	72 - 120	
cis-1,2-Dichloroethene	25.0	24.2	97	74 - 124	
Ethylbenzene	25.0	24.0	96	77 - 123	
Methyl tert-butyl ether	25.0	21.4	86	64 - 127	
Tetrachloroethene	25.0	22.7	91	74 - 122	
Toluene	25.0	23.4	94	80 - 122	
trans-1,2-Dichloroethene	25.0	24.1	96	73 - 127	
Trichloroethene	25.0	23.7	95	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	66 - 137
Toluene-d8 (Surr)	110	71 - 126
4-Bromofluorobenzene (Surr)	103	73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-84214

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-25869-1	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1939.D
Dilution:	200	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1930			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1930				
Leach Date:	N/A				

MSD Lab Sample ID:	480-25869-1	Analysis Batch:	480-84214	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1940.D
Dilution:	200	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2012 1955			Final Weight/Volume:	5 mL
Prep Date:	10/06/2012 1955				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	80	60	71 - 129	5	20	E	E F
1,1-Dichloroethene	85	78	58 - 121	9	16		
1,2-Dichlorobenzene	99	95	80 - 124	4	20		
1,2-Dichloroethane	97	94	75 - 127	3	20		
Benzene	101	95	71 - 124	6	13		
Chlorobenzene	100	94	72 - 120	6	25		
cis-1,2-Dichloroethene	102	97	74 - 124	5	15		
Ethylbenzene	102	95	77 - 123	7	15		
Methyl tert-butyl ether	89	86	64 - 127	4	37		
Tetrachloroethene	94	89	74 - 122	6	20		
Toluene	99	93	80 - 122	7	15		
trans-1,2-Dichloroethene	104	100	73 - 127	4	20		
Trichloroethene	99	93	74 - 123	6	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	106	66 - 137
Toluene-d8 (Surr)	113	110	71 - 126
4-Bromofluorobenzene (Surr)	104	104	73 - 120

Client: URS Corporation

Job Number: 480-25869-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-84214

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-25869-1	Units: ug/L	MSD Lab Sample ID:	480-25869-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	200		Dilution:	200	
Analysis Date:	10/06/2012 1930		Analysis Date:	10/06/2012 1955	
Prep Date:	10/06/2012 1930		Prep Date:	10/06/2012 1955	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1-Dichloroethane	18000	5000	5000	22200	E	21200	E F
1,1-Dichloroethene	ND	5000	5000	4270		3890	
1,2-Dichlorobenzene	ND	5000	5000	4970		4750	
1,2-Dichloroethane	ND	5000	5000	4870		4720	
Benzene	ND	5000	5000	5040		4750	
Chlorobenzene	ND	5000	5000	4990		4700	
cis-1,2-Dichloroethene	ND	5000	5000	5110		4850	
Ethylbenzene	ND	5000	5000	5080		4730	
Methyl tert-butyl ether	ND	5000	5000	4460		4300	
Tetrachloroethene	ND	5000	5000	4690		4430	
Toluene	ND	5000	5000	4960		4630	
trans-1,2-Dichloroethene	ND	5000	5000	5210		4980	
Trichloroethene	ND	5000	5000	4930		4650	

Client: URS Corporation

Job Number: 480-25869-1

Method Blank - Batch: 480-84360

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-84360/5	Analysis Batch:	480-84360	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N0474.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/08/2012 1212	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/08/2012 1212				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-25869-1

Method Blank - Batch: 480-84360

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-84360/5	Analysis Batch:	480-84360	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N0474.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/08/2012 1212	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/08/2012 1212				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	66 - 137
Toluene-d8 (Surr)	105	71 - 126
4-Bromofluorobenzene (Surr)	91	73 - 120

Lab Control Sample - Batch: 480-84360

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-84360/4	Analysis Batch:	480-84360	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N0473.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/08/2012 1148	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/08/2012 1148				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	22.1	88	71 - 129	
1,1-Dichloroethene	25.0	19.5	78	58 - 121	
1,2-Dichlorobenzene	25.0	24.5	98	80 - 124	
1,2-Dichloroethane	25.0	25.5	102	75 - 127	
Benzene	25.0	23.5	94	71 - 124	
Chlorobenzene	25.0	25.1	100	72 - 120	
cis-1,2-Dichloroethene	25.0	21.9	88	74 - 124	
Ethylbenzene	25.0	24.9	100	77 - 123	
Methyl tert-butyl ether	25.0	22.2	89	64 - 127	
Tetrachloroethene	25.0	24.7	99	74 - 122	
Toluene	25.0	25.7	103	80 - 122	
trans-1,2-Dichloroethene	25.0	22.9	92	73 - 127	
Trichloroethene	25.0	23.9	96	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	66 - 137
Toluene-d8 (Surr)	106	71 - 126
4-Bromofluorobenzene (Surr)	90	73 - 120

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 480-25869-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: URS Corporation

Job Number: 480-25869-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-84214					
LCS 480-84214/4	Lab Control Sample	T	Water	8260B	
MB 480-84214/5	Method Blank	T	Water	8260B	
480-25869-1	MW-06D-09/12	T	Water	8260B	
480-25869-1MS	Matrix Spike	T	Water	8260B	
480-25869-1MSD	Matrix Spike Duplicate	T	Water	8260B	
480-25869-3	MW-07D-09/12	T	Water	8260B	
480-25869-4	MW-07S-09/12	T	Water	8260B	
480-25869-5	TRIP BLANK	T	Water	8260B	
Analysis Batch:480-84360					
LCS 480-84360/4	Lab Control Sample	T	Water	8260B	
MB 480-84360/5	Method Blank	T	Water	8260B	
480-25869-2	MW-06S-09/12	T	Water	8260B	

Report Basis
T = Total

Client: URS Corporation

Job Number: 480-25869-1

Laboratory Chronicle

Lab ID: 480-25869-1 **Client ID:** MW-06D-09/12

Sample Date/Time: 09/27/2012 11:45 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-1		480-84214		10/06/2012 13:58	200	TAL BUF	LH
A:8260B	480-25869-A-1		480-84214		10/06/2012 13:58	200	TAL BUF	LH

Lab ID: 480-25869-1 MS **Client ID:** MW-06D-09/12

Sample Date/Time: 09/27/2012 11:45 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-1 MS		480-84214		10/06/2012 19:30	200	TAL BUF	LH
A:8260B	480-25869-A-1 MS		480-84214		10/06/2012 19:30	200	TAL BUF	LH

Lab ID: 480-25869-1 MSD **Client ID:** MW-06D-09/12

Sample Date/Time: 09/27/2012 11:45 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-1 MSD		480-84214		10/06/2012 19:55	200	TAL BUF	LH
A:8260B	480-25869-A-1 MSD		480-84214		10/06/2012 19:55	200	TAL BUF	LH

Lab ID: 480-25869-2 **Client ID:** MW-06S-09/12

Sample Date/Time: 09/27/2012 12:48 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-B-2		480-84360		10/08/2012 12:54	125	TAL BUF	RJ
A:8260B	480-25869-B-2		480-84360		10/08/2012 12:54	125	TAL BUF	RJ

Lab ID: 480-25869-3 **Client ID:** MW-07D-09/12

Sample Date/Time: 09/27/2012 14:22 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-3		480-84214		10/06/2012 14:45	1	TAL BUF	LH
A:8260B	480-25869-A-3		480-84214		10/06/2012 14:45	1	TAL BUF	LH

Lab ID: 480-25869-4 **Client ID:** MW-07S-09/12

Sample Date/Time: 09/27/2012 15:28 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-4		480-84214		10/06/2012 15:09	1	TAL BUF	LH
A:8260B	480-25869-A-4		480-84214		10/06/2012 15:09	1	TAL BUF	LH

Client: URS Corporation

Job Number: 480-25869-1

Laboratory Chronicle

Lab ID: 480-25869-5 **Client ID:** TRIP BLANK

Sample Date/Time: 09/27/2012 00:00 Received Date/Time: 09/28/2012 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-25869-A-5		480-84214		10/06/2012 15:33	1	TAL BUF	LH
A:8260B	480-25869-A-5		480-84214		10/06/2012 15:33	1	TAL BUF	LH

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

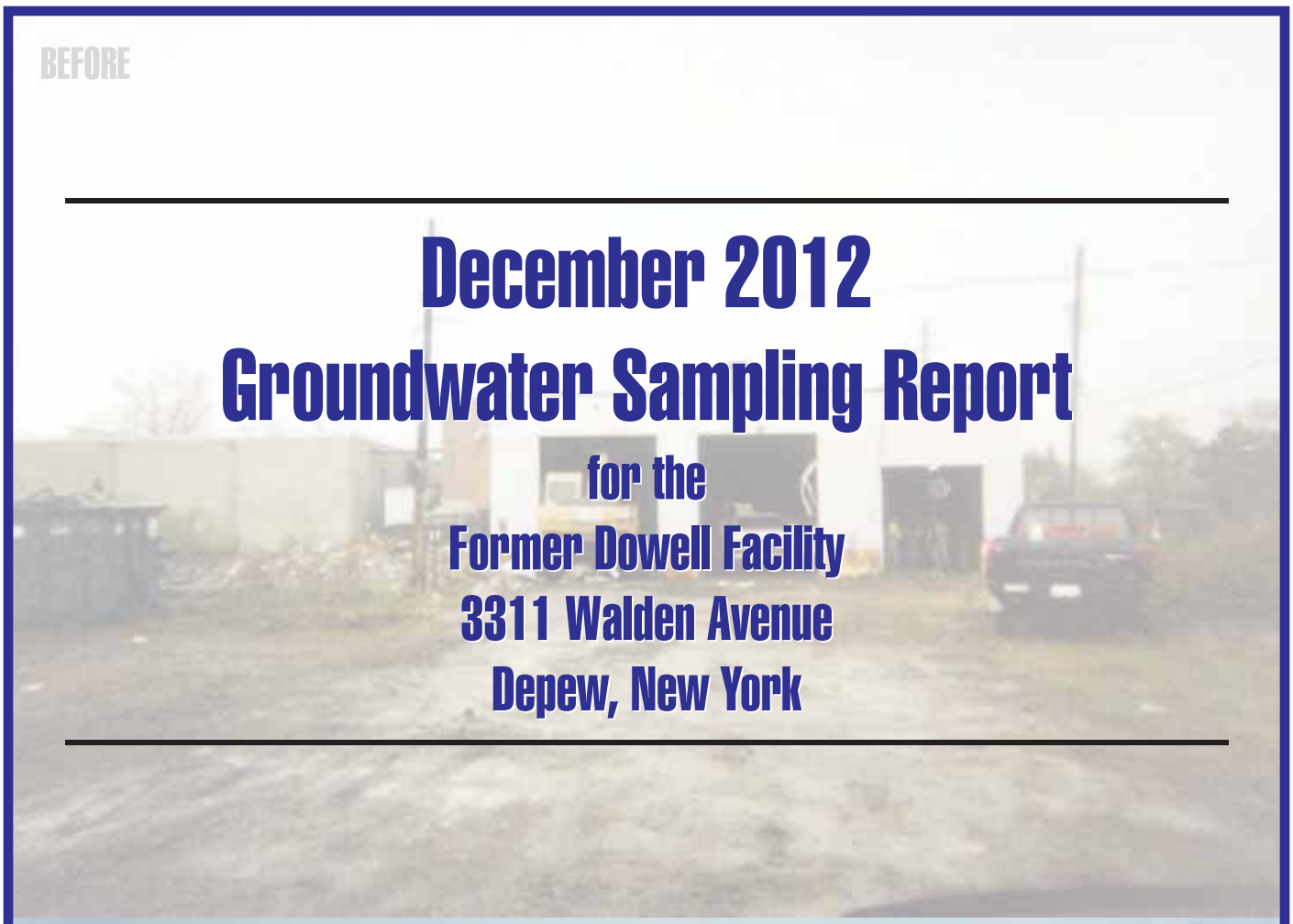
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-84214/5		480-84214		10/06/2012 10:39	1	TAL BUF	LH
A:8260B	MB 480-84214/5		480-84214		10/06/2012 10:39	1	TAL BUF	LH
P:5030B	MB 480-84360/5		480-84360		10/08/2012 12:12	1	TAL BUF	RJ
A:8260B	MB 480-84360/5		480-84360		10/08/2012 12:12	1	TAL BUF	RJ

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-84214/4		480-84214		10/06/2012 10:15	1	TAL BUF	LH
A:8260B	LCS 480-84214/4		480-84214		10/06/2012 10:15	1	TAL BUF	LH
P:5030B	LCS 480-84360/4		480-84360		10/08/2012 11:48	1	TAL BUF	RJ
A:8260B	LCS 480-84360/4		480-84360		10/08/2012 11:48	1	TAL BUF	RJ

Lab References:
TAL BUF = TestAmerica Buffalo



December 2012
Groundwater Sampling Report

for the
Former Dowell Facility
3311 Walden Avenue
Depew, New York

prepared for:

Volunteers

Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

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Buffalo, New York 14203

January 2013

G3957R

DECEMBER 2012 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

VOLUNTEERS
DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
DOWELL SCHLUMBERGER INCORPORATED
THE DOW CHEMICAL COMPANY
(VCA INDEX NO. B9-0586-00-10)

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January 2013

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1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of H_2O_2/$Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the H_2O_2/$Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the H_2O_2/$Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the December 2012 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

As required by the SMP, URS collected groundwater samples from monitoring wells MW-06S, MW-06D, MW-07S and MW-07D on December 21, 2012 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06S: Chloroethane at 720 µg/L, 1,1-DCA at 13,000 µg/L and 1,1,1-TCA at 300 µg/L.
- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06D: Chloroethane at 750 µg/L, 1,1-DCA at 15,000 µg/L and 1,1,1-TCA at 240 µg/L.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07S.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07D.

2.2.2 Comparison with Previous Results

The results of the URS analysis have been compared with the results from the September 2011 groundwater sampling event. This comparison indicated the following:

- Monitoring Well MW-06S – The concentration of Chloroethane increased from 220 µg/L in September 2012 to 720 µg/L. The concentration of 1,1-DCE decreased from 100 µg/L (estimated) in September 2012 to non-detect. The concentration of 1,1-DCA increased from 7,900 µg/L in September 2012 to 13,000 µg/L. The concentration of 1,1,1-TCA decreased from 390 µg/L in September 2012 to 300 µg/L. These concentrations are within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA.
- Monitoring Well MW-06D – The concentration of Chloroethane increased from 470 µg/L in September 2012 to 750 µg/L. The concentration of 1,1-DCA decreased from 18,000 µg/L in September 2012 to 15,000 to µg/L. The concentration of 1,1,1-TCA decreased from 320 µg/L in September 2012 to 240 µg/L. These concentrations are within the historic range of concentrations observed since March 2005
- Monitoring Well MW-07S – The concentration of 1,1-DCA increased from 1.0 µg/L in September 2012 to 1.3 µg/L. This is slightly higher than the range of historical concentrations observed since March 2005.

- Monitoring Well MW-07D - No VOCs were present above detection limits in the groundwater samples collected in December 2012.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the Site are essentially the same as observed during previous sampling events. Flow is still generally from southeast to northwest and northeast.

- Groundwater elevations throughout the soil removal area are at approximately 101.10 feet. This indicates that the excavation area is still acting as a "bathtub", with groundwater levels at essentially the same elevation throughout.
- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.
- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the Site is still from the southeast.
- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation, groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).

- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

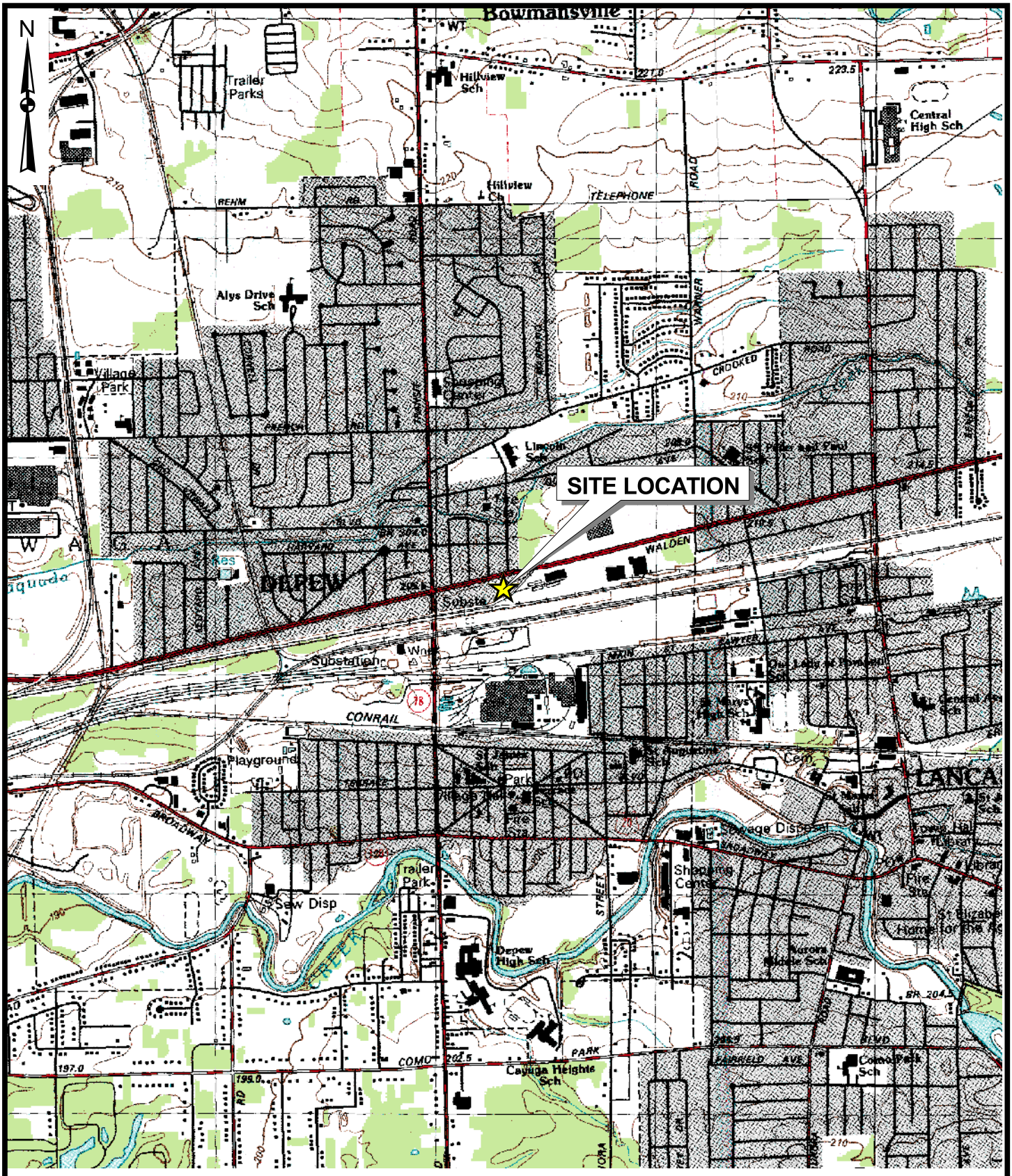
The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to December 2012.

3.2 Recommendations

The December 21, 2012 monitoring event is the fourth quarterly event since the issuance of the Certificate of Completion in December 2100. Based on the above discussions, it is recommended that:

- The SMP states that "beginning after the Certificate of Completion is issued by the NYSDEC, quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH".

- Quarterly groundwater sampling and site inspections should continue until six quarters of sampling have been conducted. At that time, groundwater sampling frequency and duration will be evaluated and discussed with the NYSDEC.



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

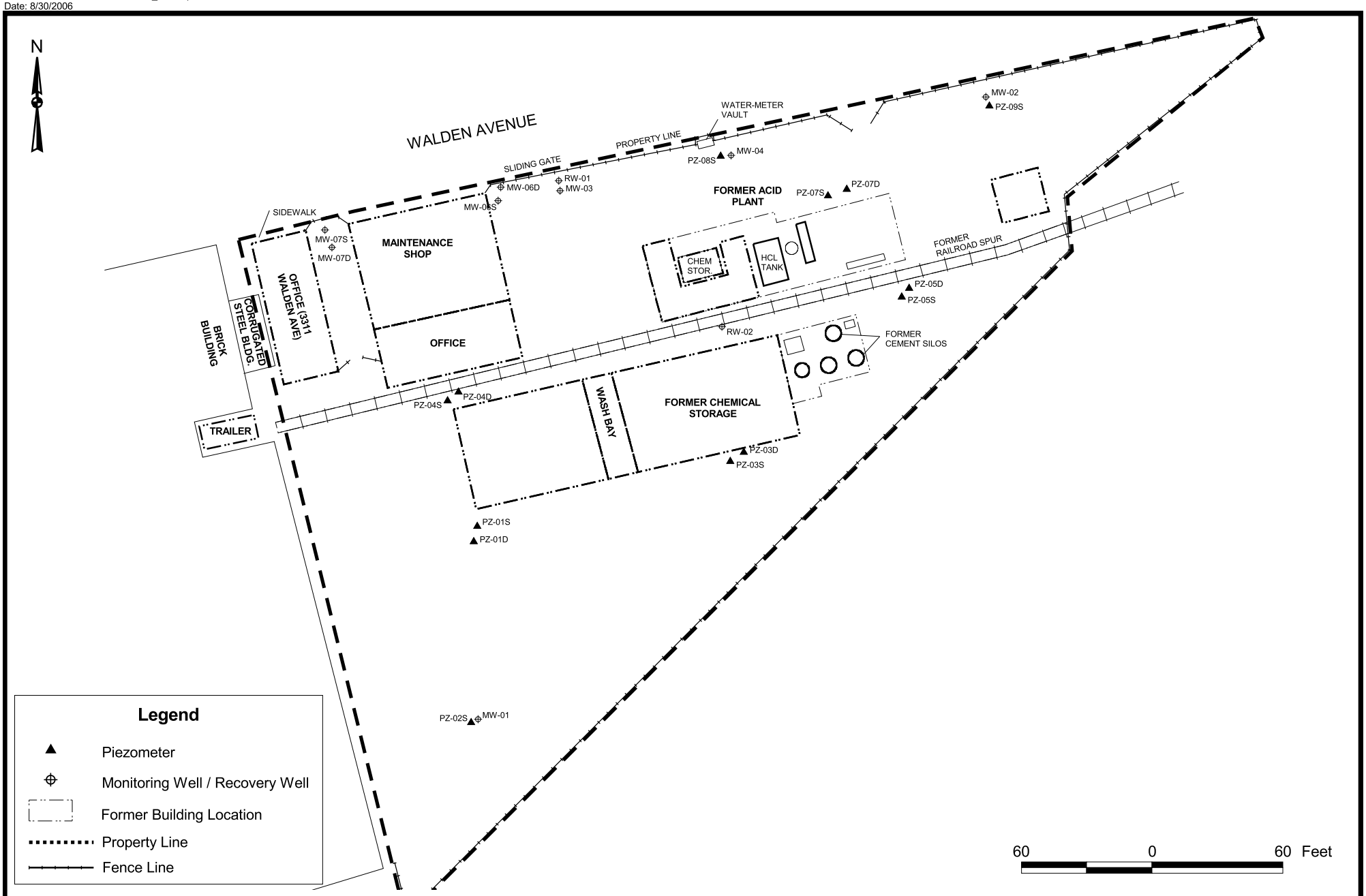
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

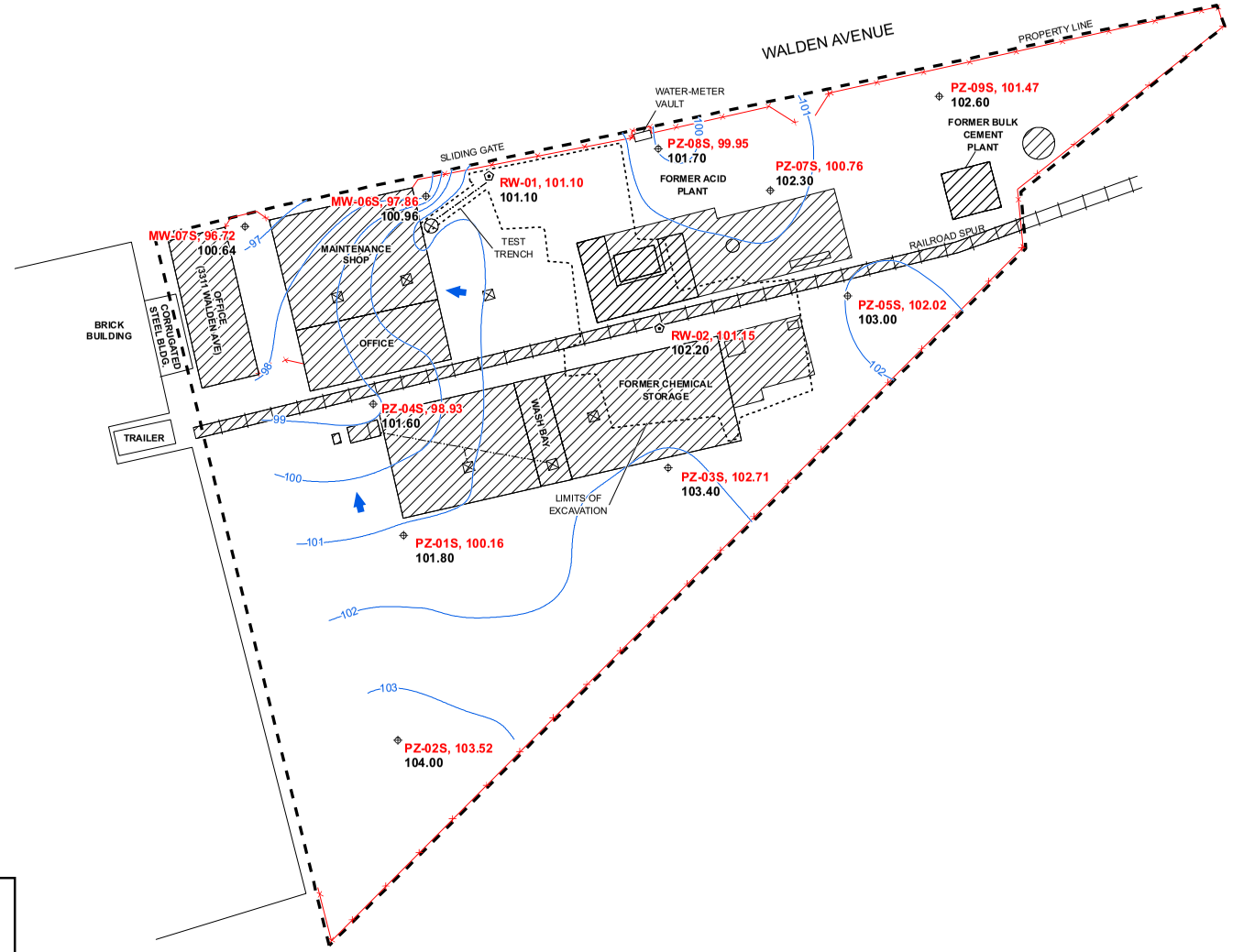
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006

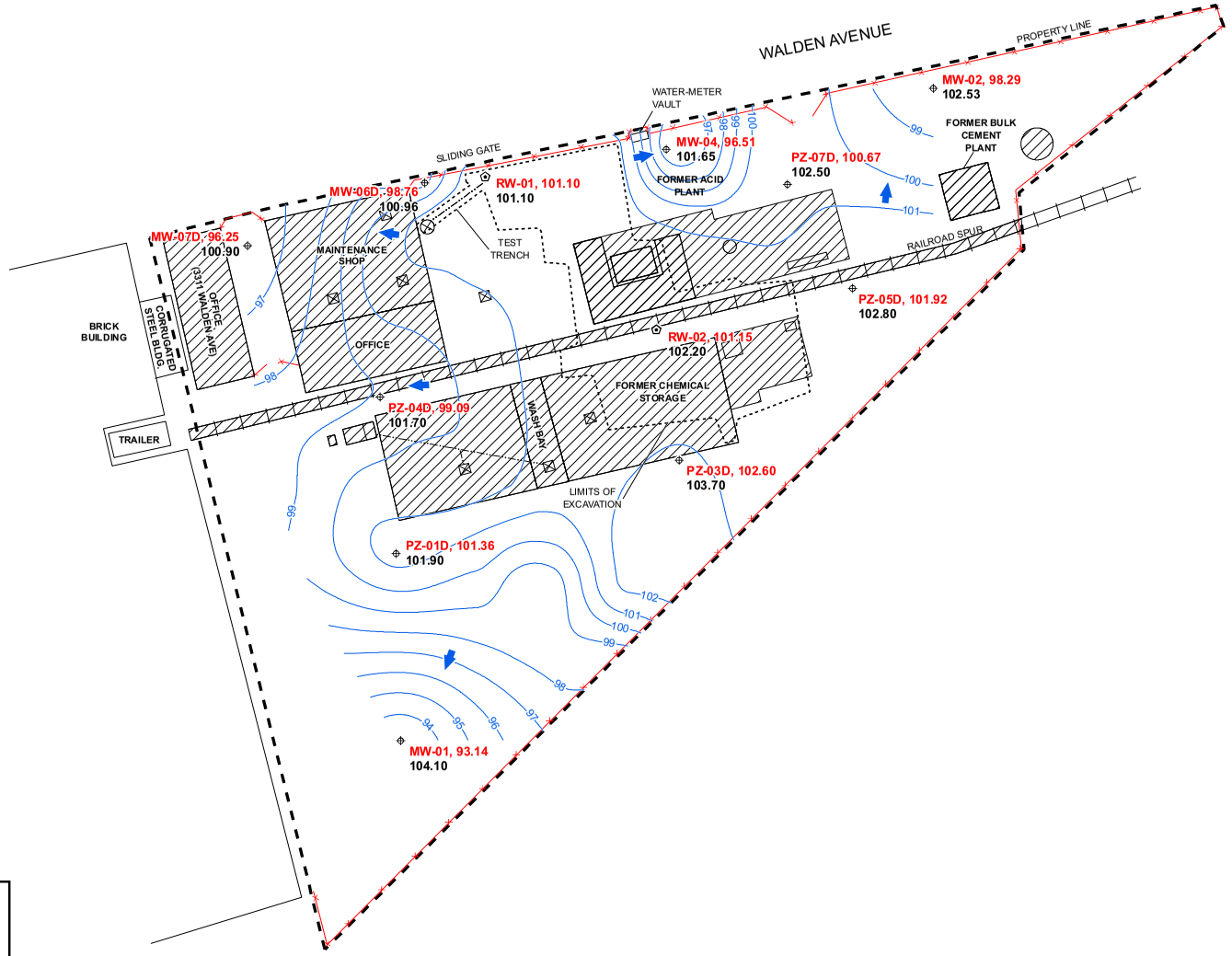


URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2


N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
PZ-09S, 101.47
102.60
FORMER BULK CEMENT PLANT
PZ-08S, 99.95
101.70
PZ-07S, 100.76
102.30
FORMER ACID PLANT
RW-01, 101.10
101.10
MW-06S, 97.86
100.96
MW-07S, 96.72
100.64
MAINTENANCE SHOP
TEST TRENCH
RAILROAD SPUR
BRICK BUILDING
CORRUGATED STEEL BLDG.
OFFICE (3311 WALDEN AVE)
OFFICE
PZ-05S, 102.02
103.00
RW-02, 101.15
102.20
FORMER CHEMICAL STORAGE
PZ-04S, 98.93
101.60
WASH BAY
TRAILER
PZ-03S, 102.71
103.40
LIMITS OF EXCAVATION
PZ-01S, 100.16
101.80
PZ-02S, 103.52
104.00
91
98
99
100
101
102
103
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
98
Groundwater Elevation Contours
Location ID
PZ-02S, 100.91
107.86
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 101.13' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(DECEMBER 20, 2012)
URS
FIGURE 2-1
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 122012.mxd 5/16/2013 MDL



Legend

- Monitoring Well / Piezometer
- Recovery Well
- Groundwater Flow Direction
- 98 Groundwater Elevation Contours

Location ID — MW-01, 90.41 — Groundwater Elevation(ft)
103.8
Ground Surface Elevation(ft)

NOTE:
Groundwater elevation is set at 101.13' within limits of excavation area

FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(DECEMBER 20, 2012)

URS

FIGURE 2-2

N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 122012.mxd 5/16/2013 MDL

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12
Chloroethane	UG/L	NS	NS
Vinyl Chloride	UG/L	NS	NS
Methylene Chloride	UG/L	NS	NS
Acetone	UG/L	NS	NS
1,1-Dichloroethene	UG/L	NS	NS
1,1-Dichloroethane	UG/L	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS
1,2-Dichloroethane	UG/L	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS
Total VOCs	UG/L	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS
Vinyl Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS
Methylene Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS
Acetone	UG/L	NS	NS	U	NS	NS	U	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS	U	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS	U	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS
Total VOCs	UG/L	NS	NS	U	NS	NS	U	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12
Chloroethane	UG/L	NS	NS
Vinyl Chloride	UG/L	NS	NS
Methylene Chloride	UG/L	NS	NS
Acetone	UG/L	NS	NS
1,1-Dichloroethene	UG/L	NS	NS
1,1-Dichloroethane	UG/L	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS
1,2-Dichloroethane	UG/L	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS
Total VOCs	UG/L	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	120 J	150	430	220	720
Vinyl Chloride	UG/L	U	U	U	U	3.1	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79	50 J	100 J	U
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500	12,000	7,900	13,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250	390	390	300
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U	U	U	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979	12,870	8610	14,020

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	280	260	450	470	750
Vinyl Chloride	UG/L	U	U	U	U	6	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U	U	U	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000	16,000	18,000	15,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220	300	320	240
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U	U	U	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480	16,750	18,790	15,990

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12
Chloroethane	UG/L	U	U
Vinyl Chloride	UG/L	U	U
Methylene Chloride	UG/L	U	U
Acetone	UG/L	U	U
1,1-Dichloroethene	UG/L	U	U
1,1-Dichloroethane	UG/L	1	1.3
1,2-Dichloroethene (total)	UG/L	U	U
1,2-Dichloroethane	UG/L	U	U
1,1,1-Trichloroethane	UG/L	U	U
Total VOCs	UG/L	1	1.3

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL

NS = not sampled
NI = Not Installed
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	NS	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U	U	U	U
Acetone	UG/L	NS	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U	U	U	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12
Chloroethane	UG/L	NS	NS
Vinyl Chloride	UG/L	NS	NS
Methylene Chloride	UG/L	NS	NS
Acetone	UG/L	NS	NS
1,1-Dichloroethene	UG/L	NS	NS
1,1-Dichloroethane	UG/L	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS
1,2-Dichloroethane	UG/L	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS
Cyclohexane	UG/L	NS	NS
Methylcyclohexane	UG/L	NS	NS
1,2-Dichlorobenzene	UG/L	NS	NS
Total VOCs	UG/L	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
								7/5/2012 0000	12.35	91.45	0.00	91.45	
								9/26/2012 1205	13.28	90.52	0.00	90.52	
								12/20/2012 1538	10.66	93.14	0.00	93.14	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1	7/16/2001 0000	4.15	98.10	0.00	98.10	
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	
								7/5/2012 0000	5.41	96.84	0.00	96.84	
								9/26/2012 1129	4.52	97.73	0.00	97.73	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/20/2012 1528	3.96	98.29	0.00	98.29	
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1						
								7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1						
								7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/15/2009 0000	7.19	94.06	0.00	94.06	
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	
								7/5/2012 0000	5.94	95.31	0.00	95.31	
								9/26/2012 1145	5.32	95.93	0.00	95.93	
								12/20/2012 1604	4.74	96.51	0.00	96.51	
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	
								6/16/2009 0000	5.62	94.76	0.00	94.76	
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	
								7/5/2012 0000	1.54	98.84	0.00	98.84	
								9/26/2012 1243	3.56	96.82	0.00	96.82	
								12/20/2012 1553	1.62	98.76	0.00	98.76	
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1	7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	
								7/5/2012 0000	2.29	98.09	0.00	98.09	
								9/26/2012 1247	3.45	96.93	0.00	96.93	
								12/20/2012 1557	2.52	97.86	0.00	97.86	
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1	11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	
								2/28/2012 0000	9.28	90.99	0.00	90.99	
								7/5/2012 0000	5.61	94.66	0.00	94.66	
								9/26/2012 1233	6.67	93.60	0.00	93.60	
								12/20/2012 1549	4.02	96.25	0.00	96.25	
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	
								2/28/2012 0000	5.64	94.46	0.00	94.46	
								7/5/2012 0000	4.15	95.95	0.00	95.95	
								9/26/2012 1229	5.92	94.18	0.00	94.18	
								12/20/2012 1547	3.38	96.72	0.00	96.72	
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1	7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1	11/3/2005 1117	12.93	92.28	0.00	92.28	
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
								7/5/2012 0000	7.22	97.99	0.00	97.99	
								9/26/2012 1211	6.65	98.56	0.00	98.56	
								12/20/2012 1539	3.85	101.36	0.00	101.36	
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	
								6/14/2006 0000	4.71	100.26	0.00	100.26	
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	
								2/28/2012 0000	3.63	101.34	0.00	101.34	
								7/5/2012 0000	7.02	97.95	0.00	97.95	
								9/26/2012 1213	6.43	98.54	0.00	98.54	
								12/20/2012 1540	3.81	101.16	0.00	101.16	
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1	11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
								7/5/2012 0000	7.63	100.23	0.00	100.23	
								9/26/2012 1203	7.83	100.03	0.00	100.03	
								12/20/2012 1536	4.34	103.52	0.00	103.52	
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1						
								11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
								7/5/2012 0000	5.46	100.27	0.00	100.27	
								9/26/2012 1258	4.85	100.88	0.00	100.88	
								12/20/2012 1534	3.13	102.60	0.00	102.60	
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1	11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	
								7/5/2012 0000	6.11	100.21	0.00	100.21	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/26/2012 1256	5.31	101.01	0.00	101.01	
								12/20/2012 1533	3.61	102.71	0.00	102.71	
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1						
								11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
								7/5/2012 0000	7.61	97.19	0.00	97.19	
								9/26/2012 1218	8.09	96.71	0.00	96.71	
								12/20/2012 1541	5.71	99.09	0.00	99.09	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
								7/5/2012 0000	7.59	97.08	0.00	97.08	
								9/26/2012 1220	8.35	96.32	0.00	96.32	
								12/20/2012 1542	5.74	98.93	0.00	98.93	
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
								7/5/2012 0000	6.04	100.16	0.00	100.16	
								9/26/2012 1151	6.51	99.69	0.00	99.69	
								12/20/2012 1530	4.28	101.92	0.00	101.92	
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	
								12/8/2009 0000	3.28	102.15	0.00	102.15	
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
								7/5/2012 0000	5.51	99.92	0.00	99.92	
								9/26/2012 1152	5.69	99.74	0.00	99.74	
								12/20/2012 1531	3.41	102.02	0.00	102.02	
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	
								9/23/2008 0000	4.74	100.36	0.00	100.36	
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
								7/5/2012 0000	5.89	99.21	0.00	99.21	
								9/26/2012 1133	5.34	99.76	0.00	99.76	
								12/20/2012 1514	4.43	100.67	0.00	100.67	
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	
								2/28/2012 0000	4.41	100.84	0.00	100.84	
								7/5/2012 0000	5.87	99.38	0.00	99.38	
								9/26/2012 1135	5.40	99.85	0.00	99.85	
								12/20/2012 1515	4.49	100.76	0.00	100.76	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1	11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	
								3/9/2006 0000	3.52	101.56	0.00	101.56	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	
								7/5/2012 0000	6.27	98.81	0.00	98.81	
								9/26/2012 1139	6.37	98.71	0.00	98.71	
								12/20/2012 1513	5.13	99.95	0.00	99.95	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1	11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/13/2007 0000	4.64	101.74	0.00	101.74	
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
								7/5/2012 0000	7.42	98.96	0.00	98.96	
								9/26/2012 1121	7.64	98.74	0.00	98.74	
								12/20/2012 1517	4.91	101.47	0.00	101.47	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	
								12/11/2007 0000	3.02	100.88	0.00	100.88	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1250	4.04	99.86	0.00	99.86	
								12/20/2012 1559	2.80	101.10	0.00	101.10	
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1	11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	
								2/28/2012 0000	3.39	101.33	0.00	101.33	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1253	4.83	99.89	0.00	99.89	
								12/20/2012 1532	3.57	101.15	0.00	101.15	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06S

Date: 12/21/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 2.11 Depth to Well Bottom: 19.83 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 10.93 Estimated Purge Volume (liters): 9.46

Sample ID: MW-06S-12/12 Sample Time: 11:25 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
10:35	7.76	11.71	1.560	6.14	1.74	13	280	2.58
10:40	7.10	11.46	1.640	0.20	1.59	35	160	3.02
10:45	6.97	11.45	1.550	0.40	1.73	65	160	3.51
10:50	6.94	11.61	1.540	0.53	1.39	66	160	3.94
10:55	6.92	11.71	1.550	0.26	1.75	65	160	4.45
11:00	6.91	11.61	1.560	0.07	1.49	62	160	4.81
11:05	6.91	11.70	1.580	0.02	1.70	58	160	5.10
11:10	6.90	11.69	1.610	0.00	1.61	53	160	5.51
11:15	6.90	11.64	1.620	0.07	1.96	52	160	5.78
11:20	6.90	11.80	1.630	0.00	1.78	51	160	6.07
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 9/16-inch bolts. Both are stripped.

NM = Not recorded.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 12/21/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 1.61 Depth to Well Bottom: 29.60 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 17.27 Estimated Purge Volume (liters): 11.35

Sample ID: MW-06D-12/12 Sample Time: 12:25 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
11:30	6.89	12.34	2.270	0.07	5.67	-49	220	6.90
11:35	6.88	11.97	2.390	0.00	1.23	-47	150	7.09
11:40	6.87	11.92	2.380	0.00	4.96	-46	150	7.27
11:45	6.93	12.27	2.230	0.00	4.96	-59	200	7.73
11:50	6.91	12.29	2.200	0.85	5.51	71	200	8.10
11:55	6.90	12.41	2.200	1.09	3.98	70	200	8.57
12:00	6.90	12.45	2.210	0.73	2.33	66	200	9.08
12:05	6.89	12.53	2.220	0.00	1.94	59	200	9.50
12:10	6.86	12.49	2.280	0.00	2.21	51	200	9.84
12:15	6.86	12.54	2.300	0.00	2.21	40	200	10.29
12:20	6.85	12.63	2.310	0.00	2.98	33	200	10.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 3/4-inch bolts.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07S

Date: 12/21/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.41 Depth to Well Bottom: 18.92 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 9.57 Estimated Purge Volume (liters): 8.50

Sample ID: MW-07S-12/12 Sample Time: 13:35 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
12:50	7.57	11.25	0.686	2.28	4.85	139	160	4.52
12:55	7.23	11.32	0.664	0.00	4.78	139	160	5.84
13:00	7.17	11.26	0.662	0.00	4.49	140	200	7.10
13:05	7.16	11.21	0.661	0.00	4.30	140	160	7.90
13:10	7.16	11.16	0.600	0.00	4.17	140	160	8.99
13:15	7.15	10.98	0.661	0.00	4.05	140	160	9.35
13:20	7.14	11.14	0.658	0.00	4.26	139	150	9.35
13:25	7.15	11.30	0.660	0.00	3.65	139	150	9.35
13:30	7.15	11.35	0.662	0.00	3.98	138	150	9.35
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-07D.
4. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176632.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07D

Date: 12/21/12 **Sampling Personnel:** John Boyd **Company:** URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 4.74 Depth to Well Bottom: 30.20 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 15.71 Estimated Purge Volume (liters): 9.46

Sample ID: MW-07D-12/12 Sample Time: 14:35 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
13:50	7.41	10.24	0.531	2.01	2.55	-44	200	4.60
13:55	7.50	11.17	0.529	0.00	1.08	-67	200	5.72
14:00	7.57	10.78	0.532	0.00	1.86	-70	150	6.45
14:05	7.57	10.88	0.524	0.00	1.81	-37	160	7.55
14:10	7.57	11.01	0.519	0.00	1.52	-6	160	8.48
14:15	7.58	10.99	0.519	0.80	1.13	17	160	9.25
14:20	7.58	11.09	0.517	1.26	1.15	18	160	10.20
14:25	7.59	11.16	0.516	1.60	1.59	13	150	11.42
14:30	7.59	11.14	0.517	1.56	1.54	11	160	12.21
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

APPENDIX B

FIELD NOTES

12/20/12. Thursday
WX: Cloudy - Temp Low 40°F.

1435. John Boyd drives to the site
1500 - arrived at the site Set up to ~~measured~~ measure wells

Time	Well	DTW.	T. Depth	Comments
1559	RW-01	2.80		
1532	RW-02	3.57		
1540	PZ-01S	3.81		
1537	PZ01D	3.85		
1536	PZ02S	4.34		
1533	PZ03S	3.61		
1534	PZ-03D	3.13		
1542	PZ-04S	5.74		
1541	PZ-04D	5.71		
1531	PZ-05S	3.41		
1530	PZ-05D	4.28		
1515	PZ-07S	4.49		
1514	PZ-07D	4.43		
1513	PZ-08S	5.13		
1517	PZ-09S	4.91		
1538	MW-01	10.66		7/8 bolt
1528	MW-02	3.96		7/8 bolt. water in box
1604	MW-04	4.74		water in Road box
1557	MW-06S	2.52		3/4" bolts
1553	MW-06D	1.62	29.44	MISSING Cover bolts. WATER in box (9/16" bolts)
1547	MW-07S	3.38		5/8 and 3/4 bolts. Water in box
1549	MW-07D	4.02		3/4" bolts

1645. Left site after checking fence and general area for subsidence, vandalism, ~~or~~ vegetation. SRE.
1705 arrived at ORS.

Continued on Page

Read and Understood By

John Boyd 12/20/12
Signed Date Signed Date

34
PROJECT Dowell Walden AOE

Notebook No.

Continued From Page

12/21/12 Friday.
WX. Cold. Temps in 30's and Light SNOW.

0930. left office and drove to site (John Boyd - URS.

1033. Began purging MW-06S
1125. Sampled MW-06S for VOC's
1130. Began purging MW-06D
1225. Sampled MW-06D
1242. Began purging MW-07S
1335. Sampled MW-07S
1348. Began purging MW-07D
1435. Sampled MW-07D
1505. Left SITE after LOCKING GATE handwheel - GATE got STUCK in OPEN POSITION. Drove TO TEST AMERICA and dropped off Samples w/ STOP at URS office
1645. Dropped off Samples at CAS

Continued on Page

Read and Understood By

John A Boyd 12/21/12
Signed Date Signed Date

APPENDIX C

ANALYTICAL DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-30724-1

Job Description: URS-Dowell Facility

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: John Boyd

Approved for release.
Melissa L Deyo
Project Manager I
1/4/2013 2:03 PM

Melissa L Deyo
Project Manager I
melissa.deyo@testamericainc.com
01/04/2013

cc: Mr. Peter R Fairbanks
Mr. George Kisluk

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-30724-1

Receipt
The samples were received on 12/21/2012 4:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06S-12/12 (480-30724-1) and MW-06D-2/12 (480-30724-2). Elevated reporting limits (RLs) are provided.

Method 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 98090: Iodomethane. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for 6 analytes to be outside limits; therefore, the data have been reported.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-30724-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-30724-1	MW-06S-12/12	Water	12/21/2012 1125	12/21/2012 1653
480-30724-2	MW-06D-12/12	Water	12/21/2012 1225	12/21/2012 1653
480-30724-3	MW-07S-12/12	Water	12/21/2012 1335	12/21/2012 1653
480-30724-4	MW-07D-12/12	Water	12/21/2012 1435	12/21/2012 1653
480-30724-5	TRIP BLANK	Water	12/21/2012 0000	12/21/2012 1653

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-30724-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-30724-1	**MW-06S-12/12**					
1,1,1-Trichloroethane		300		200	ug/L	8260B
1,1-Dichloroethane		13000		200	ug/L	8260B
Chloroethane		720		200	ug/L	8260B
480-30724-2	**MW-06D-12/12**					
1,1,1-Trichloroethane		240		200	ug/L	8260B
1,1-Dichloroethane		15000		200	ug/L	8260B
Chloroethane		750		200	ug/L	8260B
480-30724-3	**MW-07S-12/12**					
1,1-Dichloroethane		1.3		1.0	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-30724-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-30724-1

Method	Analyst	Analyst ID
SW846 8260B	Brandt, Todd R	TRB

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-06S-12/12**

Lab Sample ID: 480-30724-1
Client Matrix: Water

Date Sampled: 12/21/2012 1125
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5503.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	01/02/2013 2351			Final Weight/Volume:	5 mL
Prep Date:	01/02/2013 2351				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	300		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	13000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	720		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-06S-12/12**

Lab Sample ID: 480-30724-1
Client Matrix: Water

Date Sampled: 12/21/2012 1125
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5503.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	01/02/2013 2351			Final Weight/Volume:	5 mL
Prep Date:	01/02/2013 2351				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	87		73 - 120

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-06D-12/12**

Lab Sample ID: 480-30724-2
Client Matrix: Water

Date Sampled: 12/21/2012 1225
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5504.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0019			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	240		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	15000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	750		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-06D-12/12**

Lab Sample ID: 480-30724-2
Client Matrix: Water

Date Sampled: 12/21/2012 1225
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5504.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0019			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	87		73 - 120

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-07S-12/12**

Lab Sample ID: 480-30724-3
Client Matrix: Water

Date Sampled: 12/21/2012 1335
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5505.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0046			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1.3		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-07S-12/12**

Lab Sample ID: 480-30724-3
Client Matrix: Water

Date Sampled: 12/21/2012 1335
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5505.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0046			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	85		73 - 120

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-07D-12/12**

Lab Sample ID: 480-30724-4
Client Matrix: Water

Date Sampled: 12/21/2012 1435
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5506.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0114			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **MW-07D-12/12**

Lab Sample ID: 480-30724-4
Client Matrix: Water

Date Sampled: 12/21/2012 1435
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5506.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0114			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	86		73 - 120

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-30724-5
Client Matrix: Water

Date Sampled: 12/21/2012 0000
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5507.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0141			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0141				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-30724-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-30724-5
Client Matrix: Water

Date Sampled: 12/21/2012 0000
Date Received: 12/21/2012 1653

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q5507.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/03/2013 0141			Final Weight/Volume:	5 mL
Prep Date:	01/03/2013 0141				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	86		73 - 120

Client: URS Corporation

Job Number: 480-30724-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-30724-1	MW-06S-12/12	84	96	87
480-30724-2	MW-06D-12/12	86	95	87
480-30724-3	MW-07S-12/12	86	94	85
480-30724-4	MW-07D-12/12	82	96	86
480-30724-5	TRIP BLANK	83	96	86
MB 480-98090/4		86	96	88
LCS 480-98090/3		84	96	87

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: URS Corporation

Job Number: 480-30724-1

Method Blank - Batch: 480-98090

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-98090/4	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q5502.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/02/2013 2318	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/02/2013 2318				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-30724-1

Method Blank - Batch: 480-98090

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-98090/4	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q5502.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/02/2013 2318	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/02/2013 2318				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86	66 - 137
Toluene-d8 (Surr)	96	71 - 126
4-Bromofluorobenzene (Surr)	88	73 - 120

Lab Control Sample - Batch: 480-98090

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-98090/3	Analysis Batch:	480-98090	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q5501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/02/2013 2251	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/02/2013 2251				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	95	71 - 129	
1,1-Dichloroethene	25.0	21.6	86	58 - 121	
1,2-Dichlorobenzene	25.0	27.4	110	80 - 124	
1,2-Dichloroethane	25.0	23.0	92	75 - 127	
Benzene	25.0	24.9	100	71 - 124	
Chlorobenzene	25.0	26.3	105	72 - 120	
cis-1,2-Dichloroethene	25.0	24.7	99	74 - 124	
Ethylbenzene	25.0	25.7	103	77 - 123	
Methyl tert-butyl ether	25.0	23.5	94	64 - 127	
Tetrachloroethene	25.0	25.5	102	74 - 122	
Toluene	25.0	25.6	102	80 - 122	
trans-1,2-Dichloroethene	25.0	25.0	100	73 - 127	
Trichloroethene	25.0	24.9	100	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	66 - 137
Toluene-d8 (Surr)	96	71 - 126
4-Bromofluorobenzene (Surr)	87	73 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: URS Corporation

Job Number: 480-30724-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-98090					
LCS 480-98090/3	Lab Control Sample	T	Water	8260B	
MB 480-98090/4	Method Blank	T	Water	8260B	
480-30724-1	MW-06S-12/12	T	Water	8260B	
480-30724-2	MW-06D-12/12	T	Water	8260B	
480-30724-3	MW-07S-12/12	T	Water	8260B	
480-30724-4	MW-07D-12/12	T	Water	8260B	
480-30724-5	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: URS Corporation

Job Number: 480-30724-1

Laboratory Chronicle

Lab ID: 480-30724-1 **Client ID:** MW-06S-12/12

Sample Date/Time: 12/21/2012 11:25 Received Date/Time: 12/21/2012 16:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-30724-A-1		480-98090		01/02/2013 23:51	200	TAL BUF	TRB
A:8260B	480-30724-A-1		480-98090		01/02/2013 23:51	200	TAL BUF	TRB

Lab ID: 480-30724-2 **Client ID:** MW-06D-12/12

Sample Date/Time: 12/21/2012 12:25 Received Date/Time: 12/21/2012 16:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-30724-A-2		480-98090		01/03/2013 00:19	200	TAL BUF	TRB
A:8260B	480-30724-A-2		480-98090		01/03/2013 00:19	200	TAL BUF	TRB

Lab ID: 480-30724-3 **Client ID:** MW-07S-12/12

Sample Date/Time: 12/21/2012 13:35 Received Date/Time: 12/21/2012 16:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-30724-A-3		480-98090		01/03/2013 00:46	1	TAL BUF	TRB
A:8260B	480-30724-A-3		480-98090		01/03/2013 00:46	1	TAL BUF	TRB

Lab ID: 480-30724-4 **Client ID:** MW-07D-12/12

Sample Date/Time: 12/21/2012 14:35 Received Date/Time: 12/21/2012 16:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-30724-A-4		480-98090		01/03/2013 01:14	1	TAL BUF	TRB
A:8260B	480-30724-A-4		480-98090		01/03/2013 01:14	1	TAL BUF	TRB

Lab ID: 480-30724-5 **Client ID:** TRIP BLANK

Sample Date/Time: 12/21/2012 00:00 Received Date/Time: 12/21/2012 16:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-30724-A-5		480-98090		01/03/2013 01:41	1	TAL BUF	TRB
A:8260B	480-30724-A-5		480-98090		01/03/2013 01:41	1	TAL BUF	TRB

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-98090/4		480-98090		01/02/2013 23:18	1	TAL BUF	TRB
A:8260B	MB 480-98090/4		480-98090		01/02/2013 23:18	1	TAL BUF	TRB

Client: URS Corporation

Job Number: 480-30724-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-98090/3		480-98090		01/02/2013 22:51	1	TAL BUF	TRB
A:8260B	LCS 480-98090/3		480-98090		01/02/2013 22:51	1	TAL BUF	TRB

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: URS Corporation
Project/Site: URS-Dowell Facility

TestAmerica Job ID: 480-30724-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-06S-12/12	480-30724-1	84	96	87
MW-06D-12/12	480-30724-2	86	95	87
MW-07S-12/12	480-30724-3	86	94	85
MW-07D-12/12	480-30724-4	82	96	86
TRIP BLANK	480-30724-5	83	96	86
	MB 480-98090/4	86	96	88
	LCS 480-98090/3	84	96	87

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q5501.D

Lab ID: LCS 480-98090/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	23.9	95	71-129	
1,1-Dichloroethene	25.0	21.6	86	58-121	
1,2-Dichlorobenzene	25.0	27.4	110	80-124	
1,2-Dichloroethane	25.0	23.0	92	75-127	
Benzene	25.0	24.9	100	71-124	
Chlorobenzene	25.0	26.3	105	72-120	
cis-1,2-Dichloroethene	25.0	24.7	99	74-124	
Ethylbenzene	25.0	25.7	103	77-123	
Methyl tert-butyl ether	25.0	23.5	94	64-127	
Tetrachloroethene	25.0	25.5	102	74-122	
Toluene	25.0	25.6	102	80-122	
trans-1,2-Dichloroethene	25.0	25.0	100	73-127	
Trichloroethene	25.0	24.9	100	74-123	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Lab File ID: Q5502.D Lab Sample ID: MB 480-98090/4

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973Q Date Analyzed: 01/02/2013 23:18

GC Column: ZB-624 (60) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-98090/3	Q5501.D	01/02/2013 22:51
MW-06S-12/12	480-30724-1	Q5503.D	01/02/2013 23:51
MW-06D-12/12	480-30724-2	Q5504.D	01/03/2013 00:19
MW-07S-12/12	480-30724-3	Q5505.D	01/03/2013 00:46
MW-07D-12/12	480-30724-4	Q5506.D	01/03/2013 01:14
TRIP BLANK	480-30724-5	Q5507.D	01/03/2013 01:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Lab File ID: Q3884.D BFB Injection Date: 11/09/2012

Instrument ID: HP5973Q BFB Injection Time: 15:32

Analysis Batch No.: 89987

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.1	
75	30.0 - 60.0 % of mass 95	44.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	87.5	
175	5.0 - 9.0 % of mass 174	6.5	(7.5)1
176	95.0 - 101.0 % of mass 174	84.4	(96.5)1
177	5.0 - 9.0 % of mass 176	5.6	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-89987/3	Q3886.D	11/09/2012	16:23
	IC 480-89987/4	Q3887.D	11/09/2012	16:51
	IC 480-89987/5	Q3888.D	11/09/2012	17:18
	ICIS 480-89987/6	Q3889.D	11/09/2012	17:46
	IC 480-89987/7	Q3890.D	11/09/2012	18:13
	IC 480-89987/8	Q3891.D	11/09/2012	18:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Lab File ID: Q5499.D BFB Injection Date: 01/02/2013

Instrument ID: HP5973Q BFB Injection Time: 21:50

Analysis Batch No.: 98090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	41.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.3	(0.4)1
174	50.0 - 120.00 % of mass 95	88.8	
175	5.0 - 9.0 % of mass 174	6.4	(7.2)1
176	95.0 - 101.0 % of mass 174	85.5	(96.3)1
177	5.0 - 9.0 % of mass 176	6.0	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-98090/2	Q5500.D	01/02/2013	22:16
	LCS 480-98090/3	Q5501.D	01/02/2013	22:51
	MB 480-98090/4	Q5502.D	01/02/2013	23:18
MW-06S-12/12	480-30724-1	Q5503.D	01/02/2013	23:51
MW-06D-12/12	480-30724-2	Q5504.D	01/03/2013	00:19
MW-07S-12/12	480-30724-3	Q5505.D	01/03/2013	00:46
MW-07D-12/12	480-30724-4	Q5506.D	01/03/2013	01:14
TRIP BLANK	480-30724-5	Q5507.D	01/03/2013	01:41

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Sample No.: ICIS 480-89987/6 Date Analyzed: 11/09/2012 17:46

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q3889.D Heated Purge: (Y/N) N

Calibration ID: 11113

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		879190	5.01	399662	7.20	427936	9.06
UPPER LIMIT		1758380	5.51	799324	7.70	855872	9.56
LOWER LIMIT		439595	4.51	199831	6.70	213968	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-98090/2		960594	5.01	416831	7.20	419466	9.06

DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Sample No.: CCVIS 480-98090/2 Date Analyzed: 01/02/2013 22:16

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q5500.D Heated Purge: (Y/N) N

Calibration ID: 11113

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		960594	5.01	416831	7.20	419466	9.06
UPPER LIMIT		1921188	5.51	833662	7.70	838932	9.56
LOWER LIMIT		480297	4.51	208416	6.70	209733	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-98090/3		952168	5.01	417207	7.20	418765	9.06
MB 480-98090/4		944211	5.01	410598	7.20	423258	9.06
480-30724-1	MW-06S-12/12	932787	5.01	409607	7.20	423568	9.06
480-30724-2	MW-06D-12/12	922545	5.01	408558	7.20	416563	9.06
480-30724-3	MW-07S-12/12	913629	5.01	412478	7.20	415802	9.06
480-30724-4	MW-07D-12/12	920921	5.01	404111	7.20	410325	9.06
480-30724-5	TRIP BLANK	909801	5.01	402087	7.20	410529	9.06

DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-06S-12/12 | Lab Sample ID: 480-30724-1

Matrix: Water | Lab File ID: Q5503.D

Analysis Method: 8260B | Date Collected: 12/21/2012 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 01/02/2013 23:51

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	300		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		200	62
75-34-3	1,1-Dichloroethane	13000		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
106-93-4	1,2-Dibromoethane (EDB)	ND		200	150
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
591-78-6	2-Hexanone	ND		1000	250
78-93-3	2-Butanone (MEK)	ND		2000	260
540-59-0	1,2-Dichloroethene, Total	ND		400	140
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Chlorodibromomethane	ND		200	64
75-00-3	Chloroethane	720		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	ND		200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-06S-12/12 | Lab Sample ID: 480-30724-1

Matrix: Water | Lab File ID: Q5503.D

Analysis Method: 8260B | Date Collected: 12/21/2012 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 01/02/2013 23:51

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		200	100
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	ND		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	ND		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5503.D
Lims ID: 480-30724-A-1 Client ID: MW-06S-12/12
Inject. Date: 02-Jan-2013 23:51:30 Dil. Factor: 200.0000
Sample Type: Client
Sample ID: 480-30724-A-1
Misc. Info.: 480-0017997-005
Operator: CDC Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 98090 Lims Sample ID: 5
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m
Last Update: 03-Jan-2013 08:04:22 Calib Date: 09-Nov-2012 18:41:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: BrandtT Date: 03-Jan-2013 10:06:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.011	5.005	0.006	93	932787	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.201	0.0	81	409607	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	93	423568	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.700	4.694	0.006	89	136283	21.0	
$ 5 Toluene-d8 (Surr)	98	6.087	6.088	-0.001	83	1032904	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.126	-0.001	93	329012	21.7	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
14 Bromomethane	94		1.866					9
15 Chloroethane	64	1.963	1.945	0.018	69	12963	3.58	
17 Trichlorofluoromethane	101		2.164					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					
23 Acetone	43		2.748					
26 Carbon disulfide	76		2.821					
27 Methyl acetate	43		3.009					
30 Methylene Chloride	84		3.082					9
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					
39 1,1-Dichloroethane	63	3.636	3.630	0.006	85	1379306	63.8	
45 cis-1,2-Dichloroethene	96		4.086					9
43 2-Butanone (MEK)	43		4.104					
50 Chloroform	83		4.329					9
51 1,1,1-Trichloroethane	97	4.445	4.445	0.0	80	28228	1.50	
52 Cyclohexane	56		4.463					
55 Carbon tetrachloride	117		4.561					9
57 Benzene	78		4.719					9
58 1,2-Dichloroethane	62		4.755					
62 Trichloroethene	95		5.199					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					
68 Dichlorobromomethane	83		5.583					
72 cis-1,3-Dichloropropene	75		5.905					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					9
77 trans-1,3-Dichloropropene	75		6.325					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
84 Ethylene Dibromide	107		6.860					
87 Chlorobenzene	112		7.219					9
88 Ethylbenzene	91		7.292					9
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.700					9
92 Styrene	104		7.712					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					9
97 1,1,2,2-Tetrachloroethane	83		8.253					
111 1,3-Dichlorobenzene	146		9.008					9
113 1,4-Dichlorobenzene	146		9.081					9
116 1,2-Dichlorobenzene	146		9.391					9
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					9
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

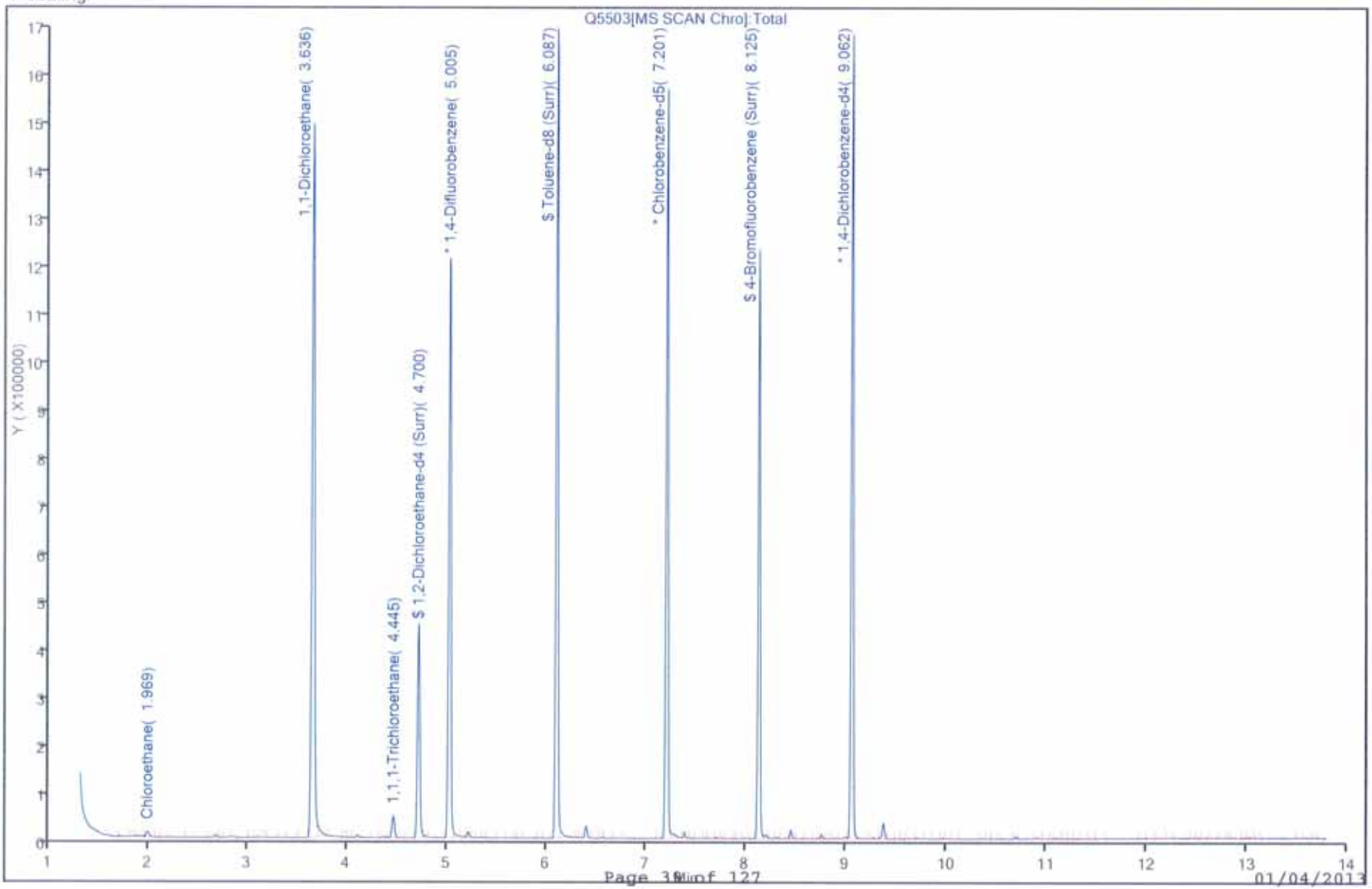
Report Date: 03-Jan-2013 10:07:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5503.D

Injection Date:	02-Jan-2013 23:51:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	5
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



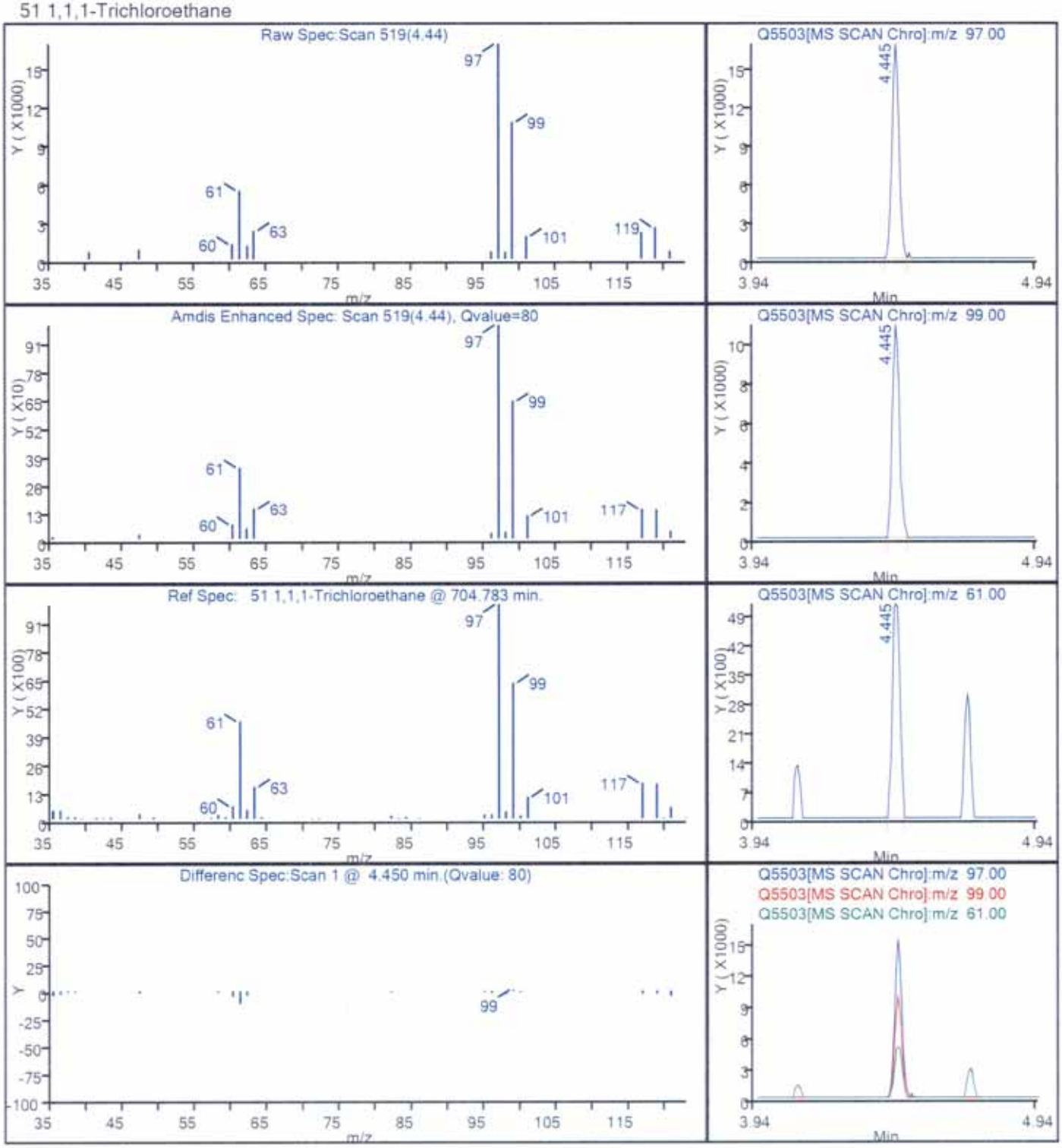
Report Date: 03-Jan-2013 10:07:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5503.D

Injection Date:	02-Jan-2013 23:51:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	5
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

51 1,1,1-Trichloroethane



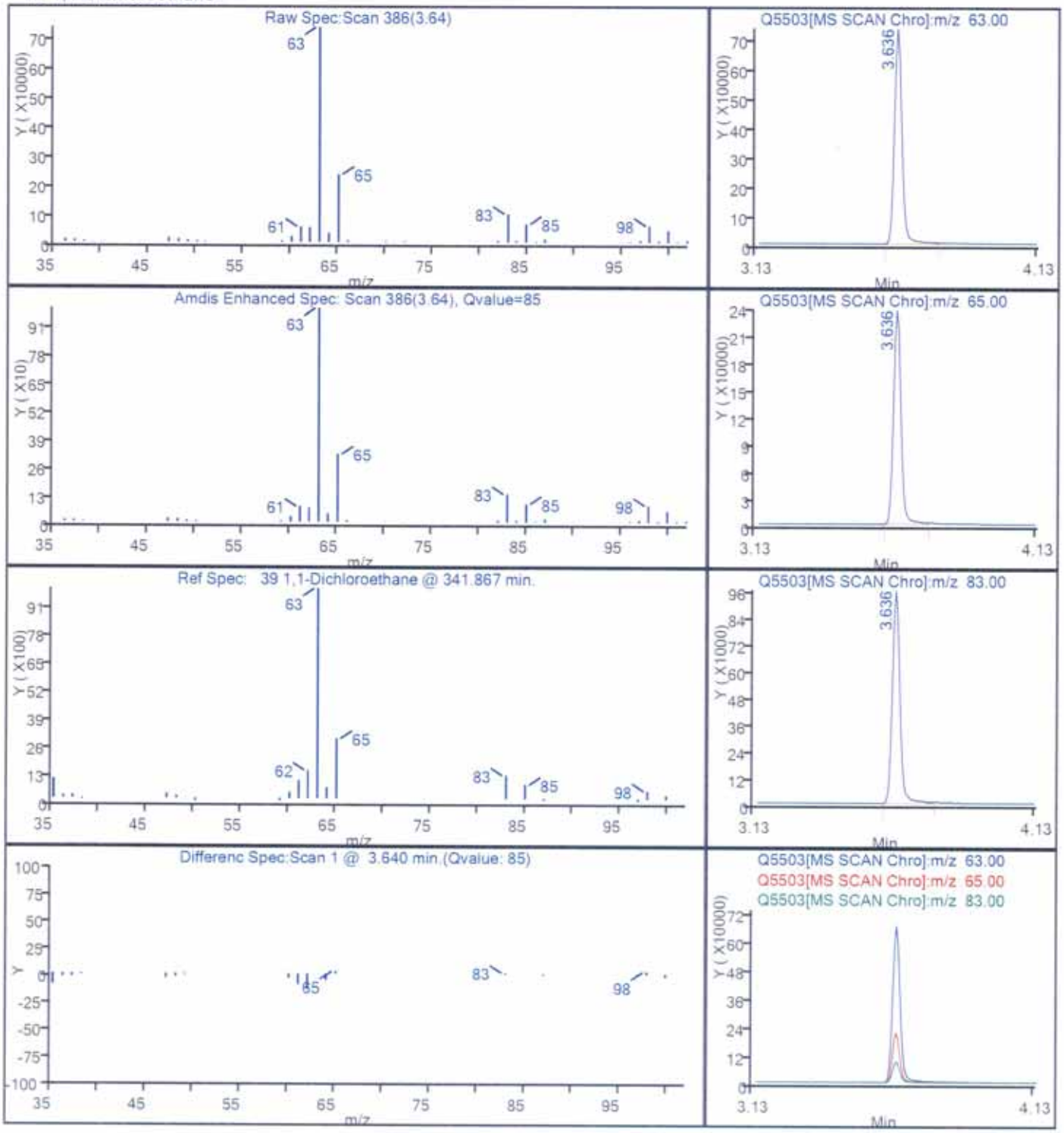
Report Date: 03-Jan-2013 10:07:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5503.D

Injection Date:	02-Jan-2013 23:51:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	5
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



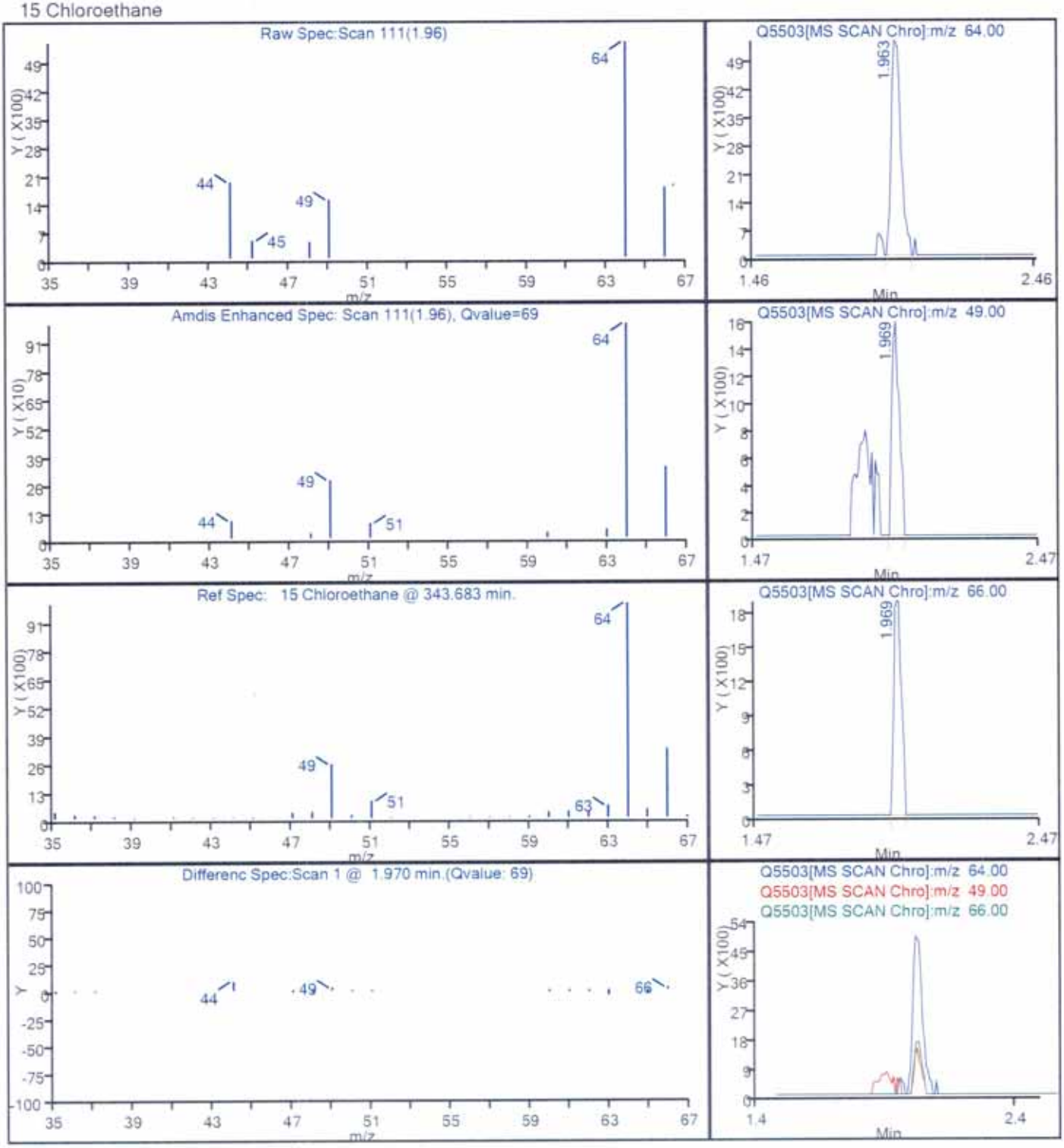
Report Date: 03-Jan-2013 10:07:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5503.D

Injection Date:	02-Jan-2013 23:51:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	5
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

15 Chloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-06D-12/12 | Lab Sample ID: 480-30724-2

Matrix: Water | Lab File ID: Q5504.D

Analysis Method: 8260B | Date Collected: 12/21/2012 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 00:19

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	240		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		200	62
75-34-3	1,1-Dichloroethane	15000		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
106-93-4	1,2-Dibromoethane (EDB)	ND		200	150
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
591-78-6	2-Hexanone	ND		1000	250
78-93-3	2-Butanone (MEK)	ND		2000	260
540-59-0	1,2-Dichloroethene, Total	ND		400	140
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Chlorodibromomethane	ND		200	64
75-00-3	Chloroethane	750		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	ND		200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-06D-12/12 | Lab Sample ID: 480-30724-2

Matrix: Water | Lab File ID: Q5504.D

Analysis Method: 8260B | Date Collected: 12/21/2012 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 00:19

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		200	100
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	ND		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	ND		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5504.D		
Lims ID:	480-30724-A-2	Client ID:	MW-06D-12/12
Inject. Date:	03-Jan-2013 00:19:30	Dil. Factor:	200.0000
Sample Type:	Client		
Sample ID:	480-30724-A-2		
Misc. Info.:	480-0017997-006		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	98090	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	03-Jan-2013 08:04:22	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK024		
First Level Reviewer: BrandtT		Date:	03-Jan-2013 10:07:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.008	5.005	0.003	93	922545	25.0	
* 2 Chlorobenzene-d5	82	7.198	7.201	-0.003	82	408558	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.062	-0.003	93	416563	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.698	4.694	0.004	96	137477	21.5	
$ 5 Toluene-d8 (Surr)	98	6.091	6.088	0.003	83	1024500	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.129	8.126	0.003	97	328725	21.7	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
14 Bromomethane	94		1.866					9
15 Chloroethane	64	1.972	1.945	0.027	67	13319	3.75	
17 Trichlorofluoromethane	101		2.164					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					9
23 Acetone	43		2.748					
26 Carbon disulfide	76		2.821					
27 Methyl acetate	43		3.009					
30 Methylene Chloride	84		3.082					9
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					
39 1,1-Dichloroethane	63	3.639	3.630	0.009	85	1656754	77.4	
45 cis-1,2-Dichloroethene	96		4.086					9
43 2-Butanone (MEK)	43		4.104					
50 Chloroform	83		4.329					9
51 1,1,1-Trichloroethane	97	4.448	4.445	0.003	81	22116	1.19	
52 Cyclohexane	56		4.463					
55 Carbon tetrachloride	117		4.561					9
57 Benzene	78		4.719					9
58 1,2-Dichloroethane	62		4.755					
62 Trichloroethene	95		5.199					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					
68 Dichlorobromomethane	83		5.583					
72 cis-1,3-Dichloropropene	75		5.905					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					9
77 trans-1,3-Dichloropropene	75		6.325					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
84 Ethylene Dibromide	107		6.860					
87 Chlorobenzene	112		7.219					9
88 Ethylbenzene	91		7.292					9
90 m-Xylene & p-Xylene	106		7.377					9
91 o-Xylene	106		7.700					9
92 Styrene	104		7.712					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					9
97 1,1,2,2-Tetrachloroethane	83		8.253					
111 1,3-Dichlorobenzene	146		9.008					
113 1,4-Dichlorobenzene	146		9.081					
116 1,2-Dichlorobenzene	146		9.391					9
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					9
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7

QC Flag Legend

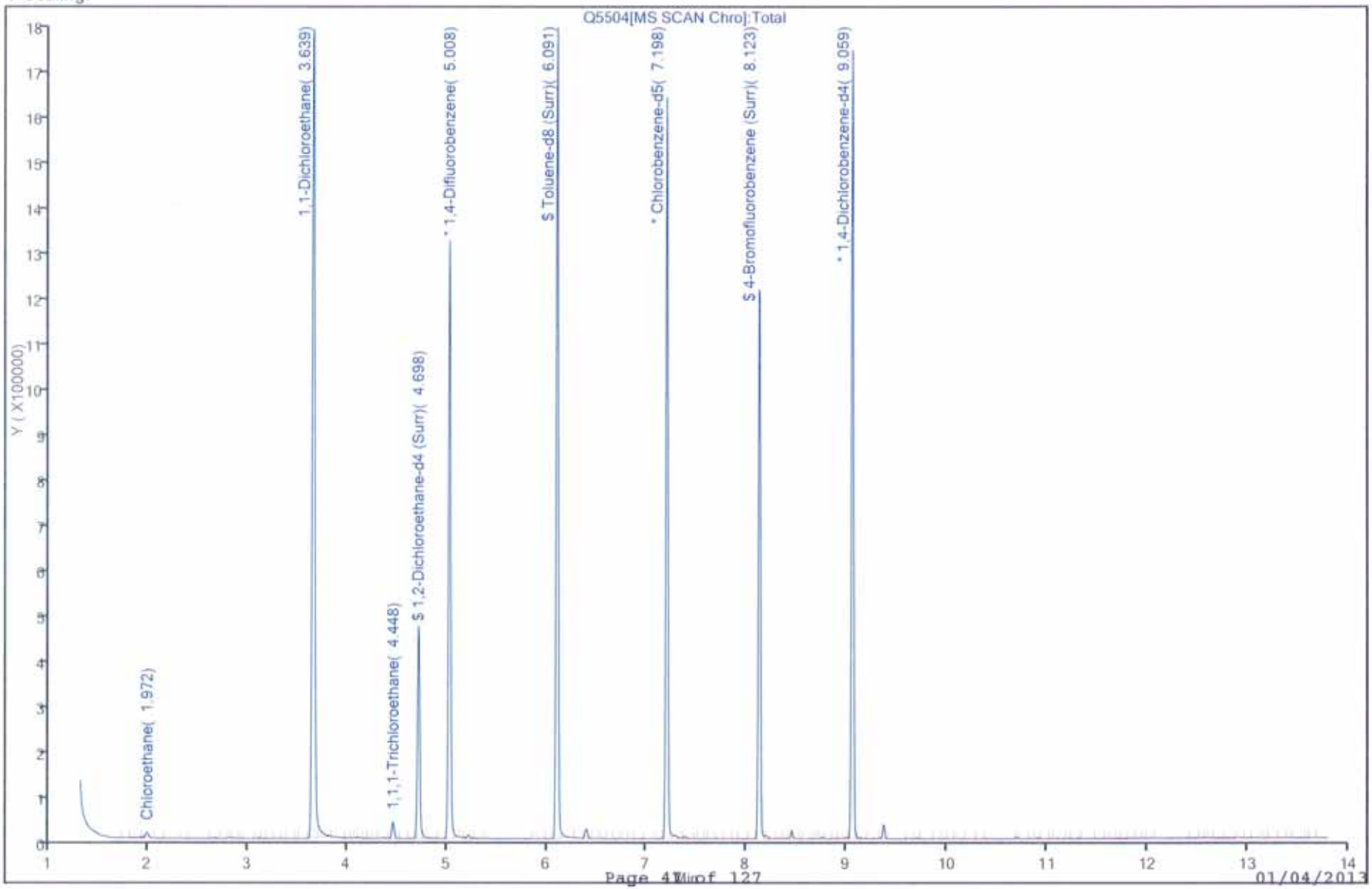
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 03-Jan-2013 10:07:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5504.D		
Injection Date:	03-Jan-2013 00:19:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	6
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:

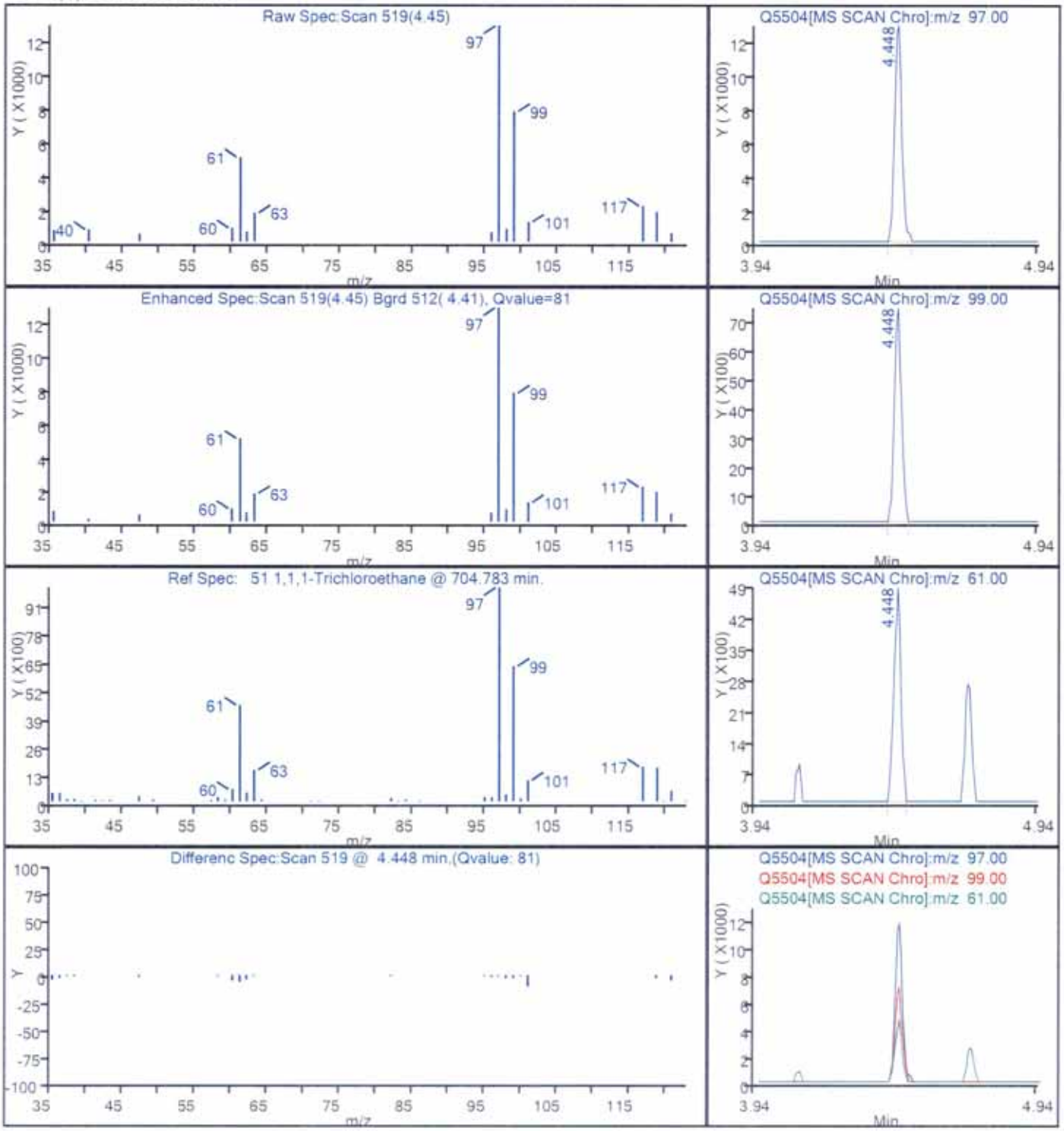


Report Date: 03-Jan-2013 10:07:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5504.D		
Injection Date:	03-Jan-2013 00:19:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	6
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

51 1,1,1-Trichloroethane

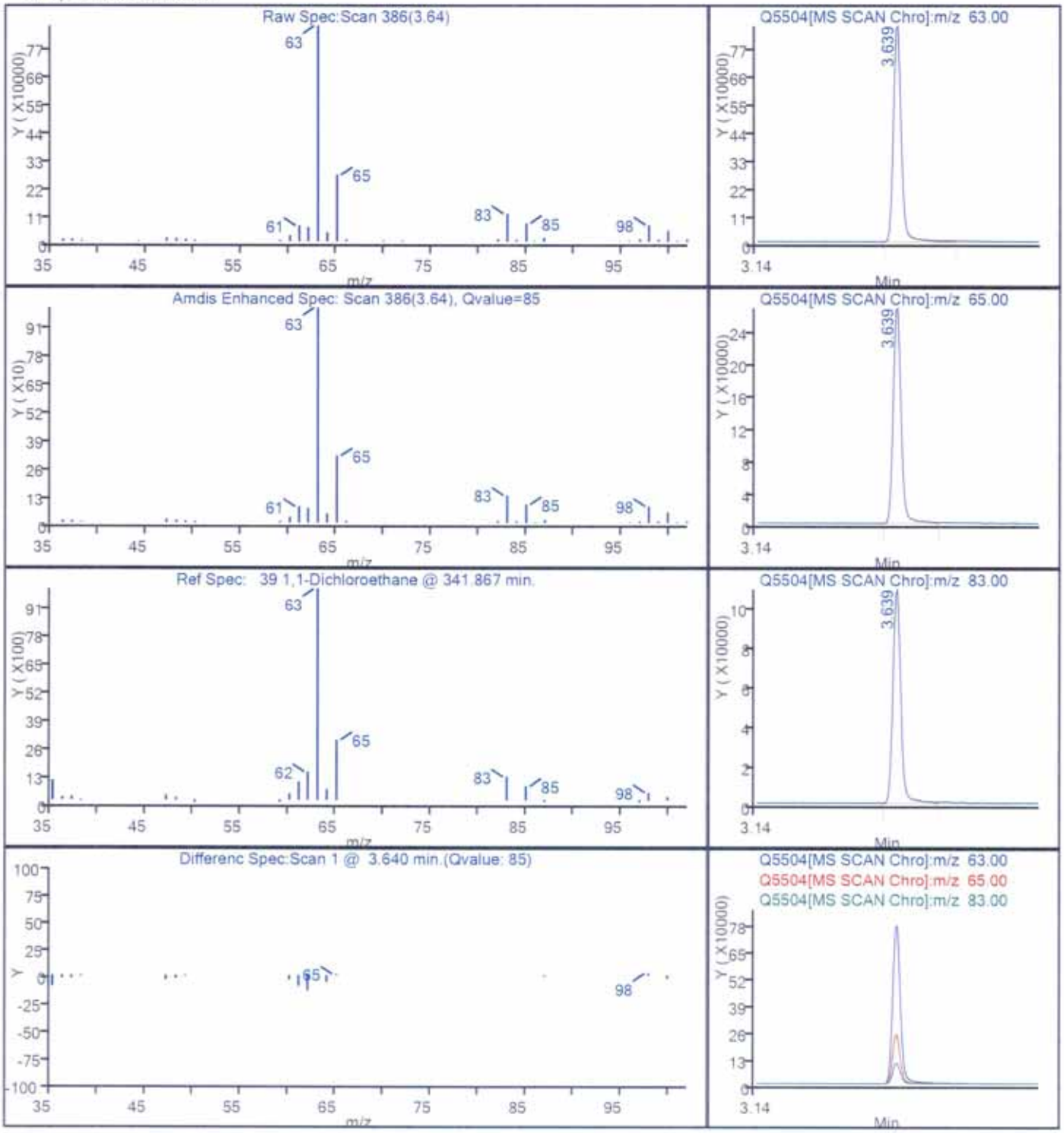


Report Date: 03-Jan-2013 10:07:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5504.D		
Injection Date:	03-Jan-2013 00:19:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	6
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



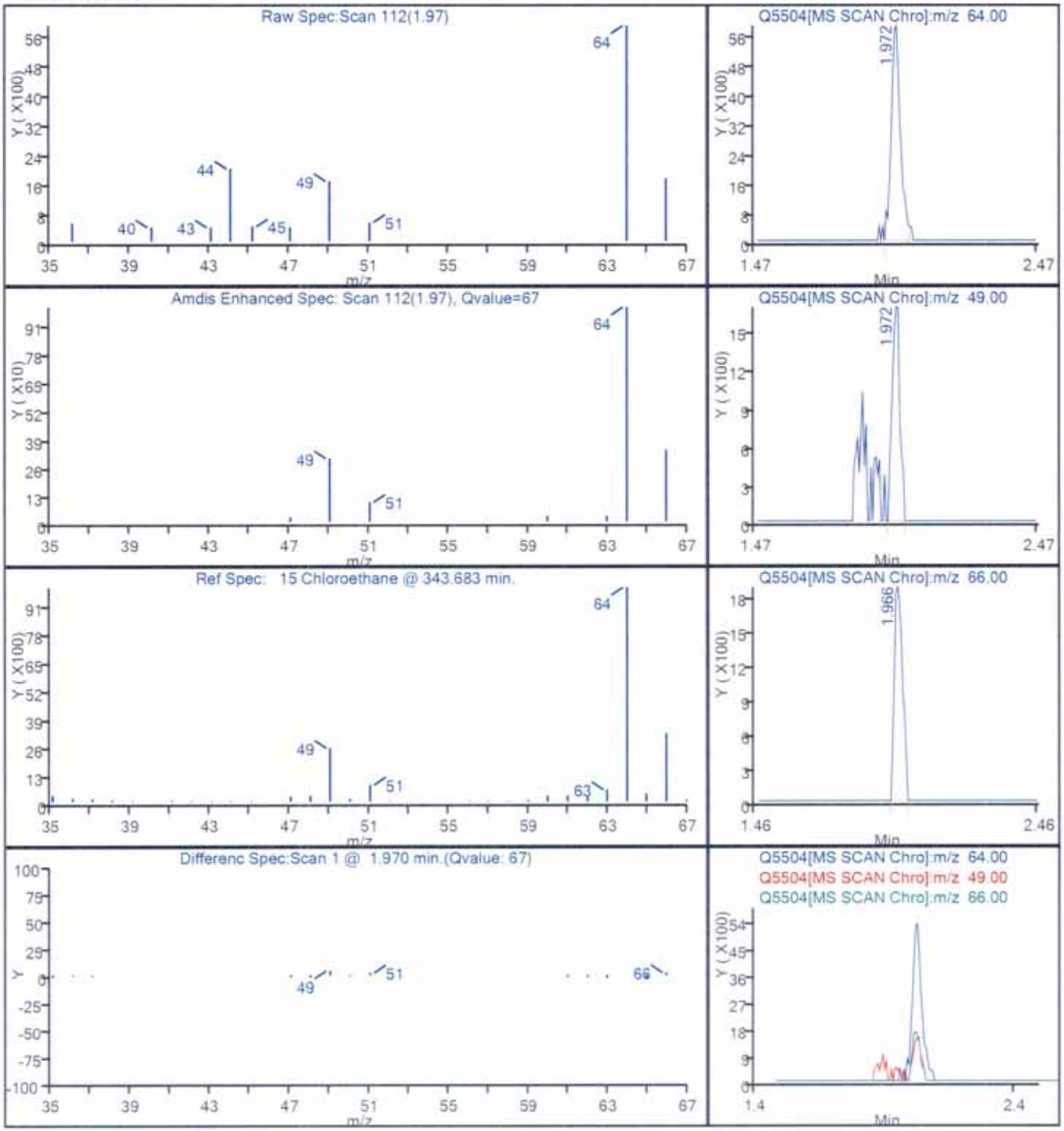
Report Date: 03-Jan-2013 10:07:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5504.D

Injection Date:	03-Jan-2013 00:19:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	6
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

15 Chloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-07S-12/12 | Lab Sample ID: 480-30724-3

Matrix: Water | Lab File ID: Q5505.D

Analysis Method: 8260B | Date Collected: 12/21/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 00:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	1.3		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.60
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-07S-12/12 | Lab Sample ID: 480-30724-3

Matrix: Water | Lab File ID: Q5505.D

Analysis Method: 8260B | Date Collected: 12/21/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 00:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5505.D		
Lims ID:	480-30724-A-3	Client ID:	MW-07S-12/12
Inject. Date:	03-Jan-2013 00:46:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30724-A-3		
Misc. Info.:	480-0017997-007		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	98090	Lims Sample ID:	7
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	03-Jan-2013 08:04:22	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK024		
First Level Reviewer: BrandtT		Date:	03-Jan-2013 10:07:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.006	5.005	0.001	93	913629	25.0	
* 2 Chlorobenzene-d5	82	7.196	7.201	-0.005	82	412478	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.058	9.062	-0.004	93	415802	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.702	4.694	0.008	89	136581	21.5	
$ 5 Toluene-d8 (Surr)	98	6.089	6.088	0.001	82	1020522	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.127	8.126	0.001	94	325729	21.3	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
14 Bromomethane	94		1.866					
15 Chloroethane	64		1.945					
17 Trichlorofluoromethane	101		2.164					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					
23 Acetone	43		2.748					
26 Carbon disulfide	76		2.821					
27 Methyl acetate	43		3.009					
30 Methylene Chloride	84		3.082					
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					
39 1,1-Dichloroethane	63	3.637	3.630	0.007	71	26877	1.27	
45 cis-1,2-Dichloroethene	96		4.086					
43 2-Butanone (MEK)	43		4.104					
50 Chloroform	83		4.329					
51 1,1,1-Trichloroethane	97		4.445					
52 Cyclohexane	56		4.463					
55 Carbon tetrachloride	117		4.561					
57 Benzene	78		4.719					9
58 1,2-Dichloroethane	62		4.755					
62 Trichloroethene	95		5.199					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					
68 Dichlorobromomethane	83		5.583					
72 cis-1,3-Dichloropropene	75		5.905					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					9
77 trans-1,3-Dichloropropene	75		6.325					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					9
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
84 Ethylene Dibromide	107		6.860					
87 Chlorobenzene	112		7.219					9
88 Ethylbenzene	91		7.292					9
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.700					9
92 Styrene	104		7.712					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					9
97 1,1,2,2-Tetrachloroethane	83		8.253					
111 1,3-Dichlorobenzene	146		9.008					9
113 1,4-Dichlorobenzene	146		9.081					9
116 1,2-Dichlorobenzene	146		9.391					9
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					9
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7

QC Flag Legend

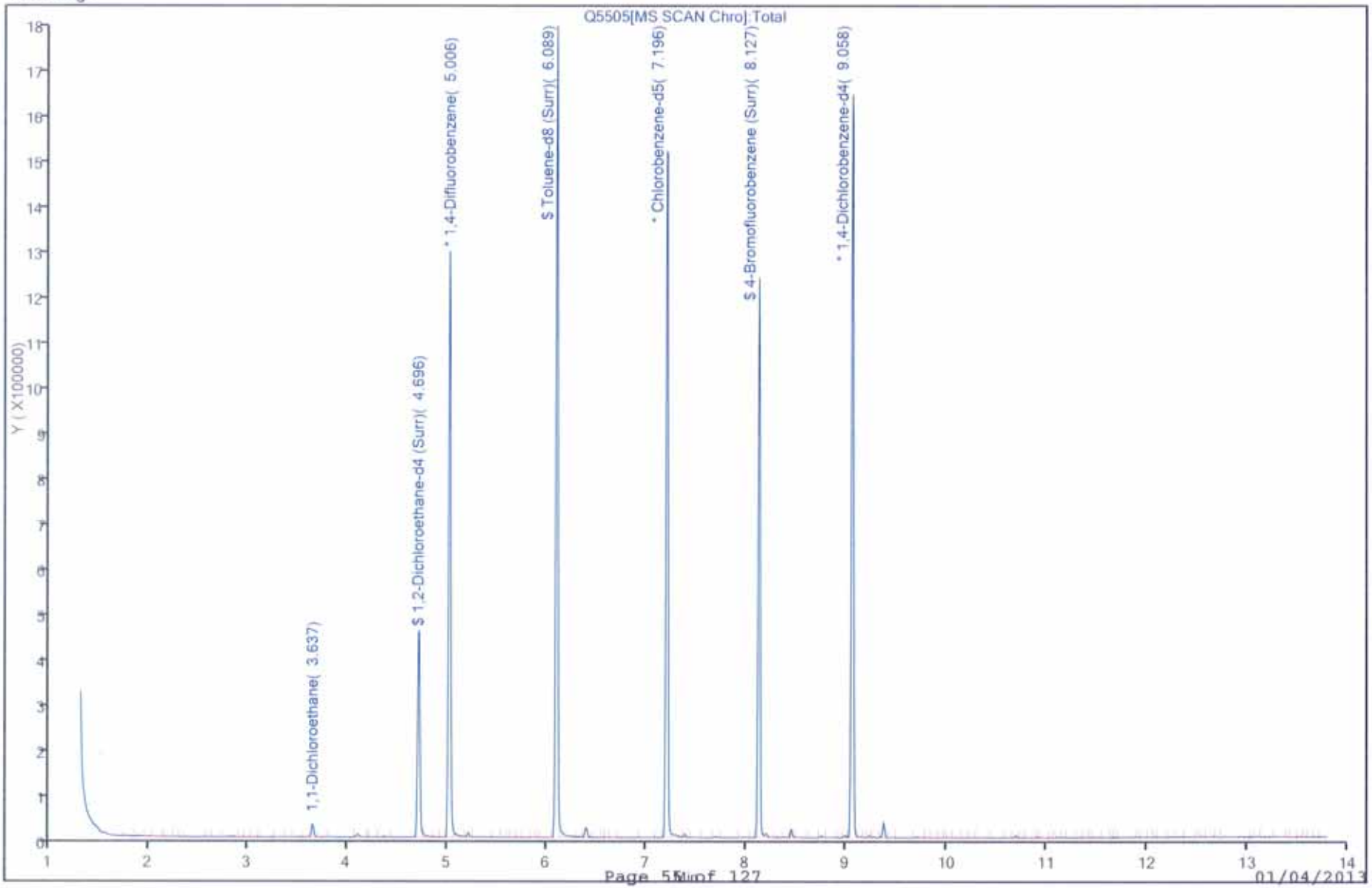
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 03-Jan-2013 10:07:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5505.D		
Injection Date:	03-Jan-2013 00:46:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	7
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

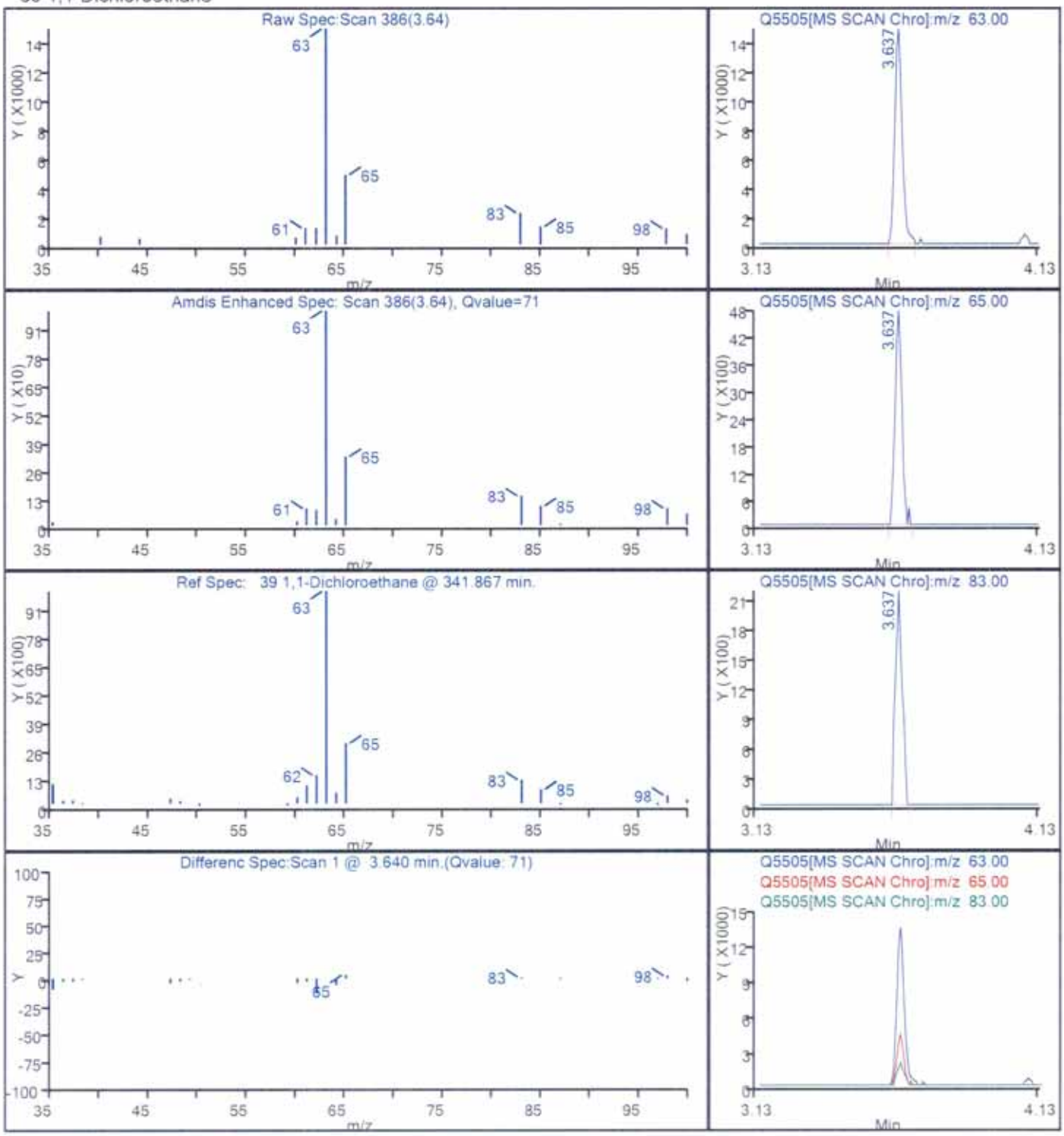
Report Date: 03-Jan-2013 10:07:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5505.D

Injection Date:	03-Jan-2013 00:46:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07S-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	7
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-07D-12/12 | Lab Sample ID: 480-30724-4

Matrix: Water | Lab File ID: Q5506.D

Analysis Method: 8260B | Date Collected: 12/21/2012 14:35

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 01:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: MW-07D-12/12 | Lab Sample ID: 480-30724-4

Matrix: Water | Lab File ID: Q5506.D

Analysis Method: 8260B | Date Collected: 12/21/2012 14:35

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 01:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5506.D		
Lims ID:	480-30724-A-4	Client ID:	MW-07D-12/12
Inject. Date:	03-Jan-2013 01:14:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30724-A-4		
Misc. Info.:	480-0017997-008		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	98090	Lims Sample ID:	8
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	03-Jan-2013 08:04:22	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK024		
First Level Reviewer: BrandtT		Date:	03-Jan-2013 10:07:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.008	5.005	0.003	93	920921	25.0	
* 2 Chlorobenzene-d5	82	7.198	7.201	-0.003	81	404111	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.062	-0.003	93	410325	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.698	4.694	0.004	89	131021	20.5	
$ 5 Toluene-d8 (Surr)	98	6.091	6.088	0.003	92	1014328	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.129	8.126	0.003	95	320193	21.4	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
14 Bromomethane	94		1.866					
15 Chloroethane	64		1.945					9
17 Trichlorofluoromethane	101		2.164					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					
23 Acetone	43		2.748					
26 Carbon disulfide	76		2.821					9
27 Methyl acetate	43		3.009					
30 Methylene Chloride	84		3.082					
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					
39 1,1-Dichloroethane	63		3.630					
45 cis-1,2-Dichloroethene	96		4.086					
43 2-Butanone (MEK)	43		4.104					
50 Chloroform	83		4.329					
51 1,1,1-Trichloroethane	97		4.445					
52 Cyclohexane	56		4.463					
55 Carbon tetrachloride	117		4.561					
57 Benzene	78		4.719					9
58 1,2-Dichloroethane	62		4.755					
62 Trichloroethene	95		5.199					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					9
68 Dichlorobromomethane	83		5.583					
72 cis-1,3-Dichloropropene	75		5.905					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					
77 trans-1,3-Dichloropropene	75		6.325					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
84 Ethylene Dibromide	107		6.860					
87 Chlorobenzene	112		7.219					
88 Ethylbenzene	91		7.292					9
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.700					9
92 Styrene	104		7.712					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					9
97 1,1,2,2-Tetrachloroethane	83		8.253					
111 1,3-Dichlorobenzene	146		9.008					
113 1,4-Dichlorobenzene	146		9.081					
116 1,2-Dichlorobenzene	146		9.391					9
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7

QC Flag Legend

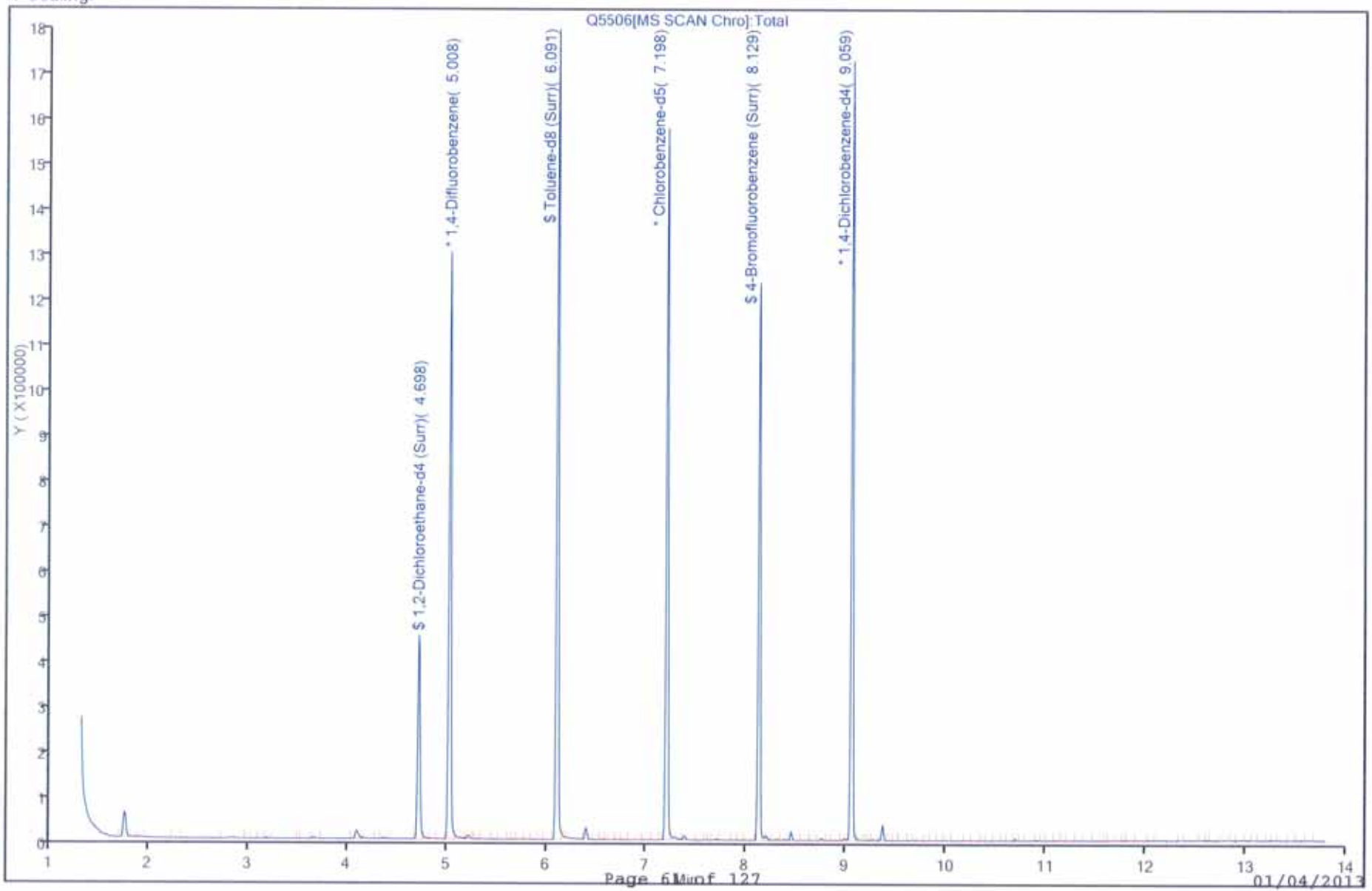
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 03-Jan-2013 10:07:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5506.D		
Injection Date:	03-Jan-2013 01:14:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07D-12/12	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	8
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-30724-5

Matrix: Water | Lab File ID: Q5507.D

Analysis Method: 8260B | Date Collected: 12/21/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 01:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-30724-5

Matrix: Water | Lab File ID: Q5507.D

Analysis Method: 8260B | Date Collected: 12/21/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 01/03/2013 01:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5507.D		
Lims ID:	480-30724-A-5	Client ID:	TRIP BLANK
Inject. Date:	03-Jan-2013 01:41:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30724-A-5		
Misc. Info.:	480-0017997-009		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	98090	Lims Sample ID:	9
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	03-Jan-2013 08:04:22	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK024		

First Level Reviewer: BrandtT Date: 03-Jan-2013 10:07:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.005	0.0	93	909801	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.201	0.0	81	402087	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.062	0.001	94	410529	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.694	0.001	89	130588	20.7	
$ 5 Toluene-d8 (Surr)	98	6.088	6.088	0.0	83	1012564	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.126	0.0	93	319705	21.5	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
14 Bromomethane	94		1.866					9
15 Chloroethane	64		1.945					9
17 Trichlorofluoromethane	101		2.164					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					
23 Acetone	43		2.748					
26 Carbon disulfide	76		2.821					
27 Methyl acetate	43		3.009					
30 Methylene Chloride	84		3.082					
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					
39 1,1-Dichloroethane	63		3.630					
45 cis-1,2-Dichloroethene	96		4.086					
43 2-Butanone (MEK)	43		4.104					
50 Chloroform	83		4.329					9
51 1,1,1-Trichloroethane	97		4.445					
52 Cyclohexane	56		4.463					
55 Carbon tetrachloride	117		4.561					
57 Benzene	78		4.719					
58 1,2-Dichloroethane	62		4.755					
62 Trichloroethene	95		5.199					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					
68 Dichlorobromomethane	83		5.583					
72 cis-1,3-Dichloropropene	75		5.905					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					9
77 trans-1,3-Dichloropropene	75		6.325					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
84 Ethylene Dibromide	107		6.860					
87 Chlorobenzene	112		7.219					9
88 Ethylbenzene	91		7.292					9
90 m-Xylene & p-Xylene	106		7.377					9
91 o-Xylene	106		7.700					
92 Styrene	104		7.712					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					
97 1,1,2,2-Tetrachloroethane	83		8.253					
111 1,3-Dichlorobenzene	146		9.008					
113 1,4-Dichlorobenzene	146		9.081					
116 1,2-Dichlorobenzene	146		9.391					9
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7

QC Flag Legend

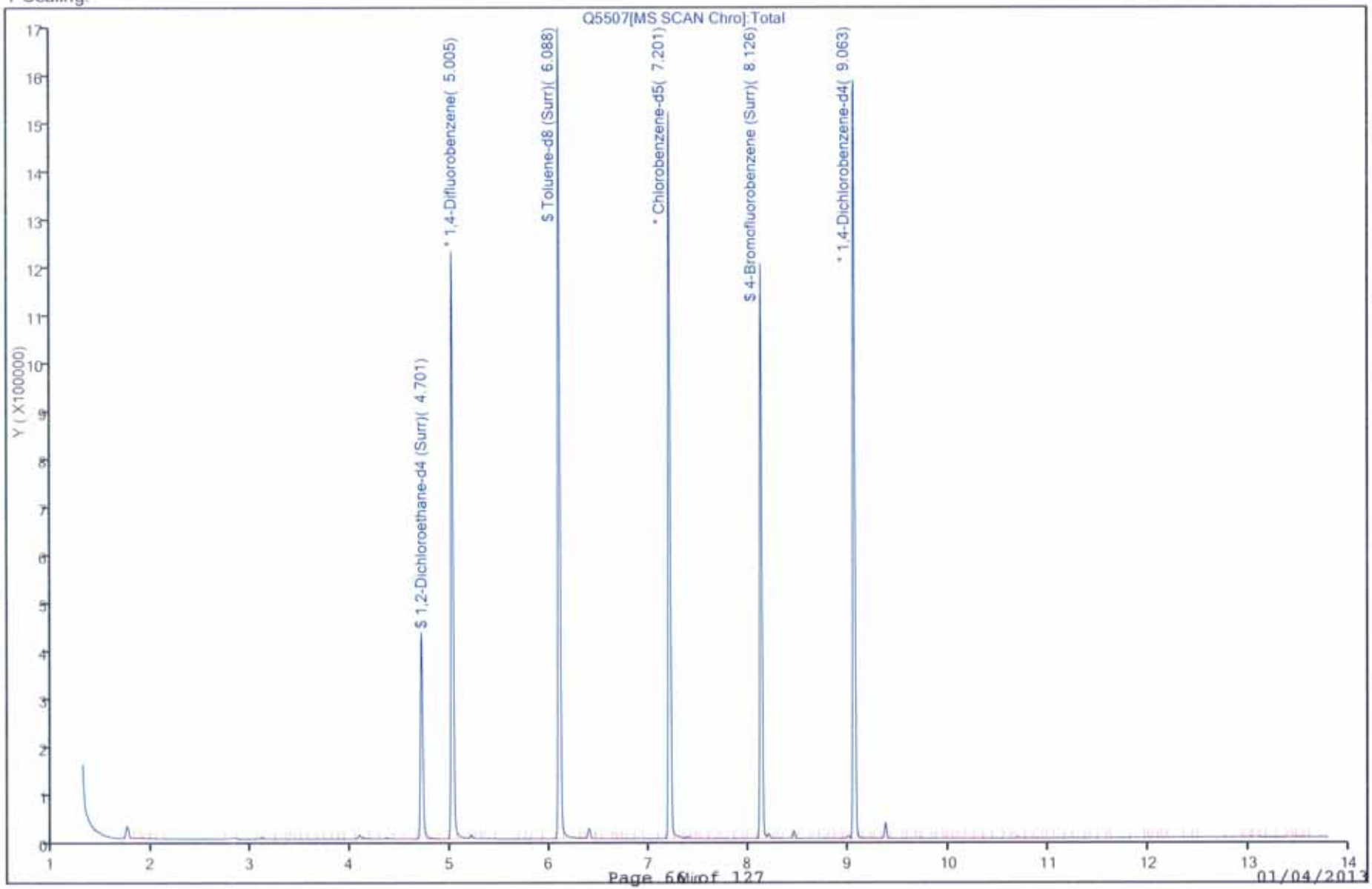
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 03-Jan-2013 10:07:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5507.D		
Injection Date:	03-Jan-2013 01:41:30	Limit Group:	MV - 8260B ICAL
Client ID:	TRIP BLANK	Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	9
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-89987/3	Q3886.D
Level 2	IC 480-89987/4	Q3887.D
Level 3	IC 480-89987/5	Q3888.D
Level 4	ICIS 480-89987/6	Q3889.D
Level 5	IC 480-89987/7	Q3890.D
Level 6	IC 480-89987/8	Q3891.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3309 0.3288	0.3311	0.3431	0.3167	0.3312	Ave		0.3303				2.5		15.0			
Chloromethane	0.4032 0.3510	0.3614	0.3861	0.3383	0.3519	Ave		0.3653			0.1000	6.7		15.0			
Vinyl chloride	0.3680 0.3865	0.3658	0.3951	0.3640	0.3696	Ave		0.3748				3.4		30.0			
Bromomethane	0.1129 0.1276	0.0719	0.1092	0.0943	0.1082	Lin	-0.380	0.1276							0.9920		0.9900
Chloroethane	0.1259 0.0850	0.0964	0.0923	0.0836	0.0844	Lin1	0.0459	0.0841							1.0000		0.9900
Trichlorofluoromethane	0.4156 0.4488	0.4478	0.4651	0.4402	0.4476	Ave		0.4442				3.7		15.0			
Acrolein	0.0277 0.0266	0.0273	0.0260	0.0264	0.0263	Ave		0.0267				2.4		15.0			
1,1,2-Trichlorotrifluoroethane	0.2589 0.2707	0.2884	0.2938	0.2686	0.2705	Ave		0.2752				4.8		15.0			
1,1-Dichloroethene	0.2875 0.2784	0.2856	0.2941	0.2838	0.2801	Ave		0.2849				2.0		30.0			
Acetone	0.1167 0.0907	0.0978	0.0905	0.0960	0.0934	Ave		0.0975				10.0		15.0			
Iodomethane	0.0826 0.3398	0.1193	0.2224	0.2357	0.3027	Lin	-1.376	0.3464							0.9950		0.9900
Carbon disulfide	0.8929 0.8848	0.8960	0.9291	0.8783	0.8772	Ave		0.8930				2.2		15.0			
Acetonitrile	0.0217 0.0202	0.0218	0.0212	0.0213	0.0208	Ave		0.0212				2.8		15.0			
Methyl acetate	0.2886 0.2909	0.2991	0.2855	0.3153	0.2904	Ave		0.2950				3.7		15.0			
Methylene Chloride	0.3961 0.3244	0.3454	0.3452	0.3329	0.3323	Ave		0.3460				7.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl tert-butyl ether	0.9449 0.9593	0.9984	0.9741	0.9871	0.9740	Ave		0.9730				2.0		15.0			
trans-1,2-Dichloroethene	0.3616 0.3165	0.3263	0.3349	0.3251	0.3244	Ave		0.3315				4.8		15.0			
Acrylonitrile	0.1148 0.1093	0.1165	0.1143	0.1159	0.1124	Ave		0.1139				2.3		15.0			
1,1-Dichloroethane	0.6115 0.5694	0.5716	0.5922	0.5632	0.5708	Ave		0.5798			0.1000	3.2		15.0			
Vinyl acetate	0.6230 0.5872	0.6437	0.6341	0.6237	0.6156	Ave		0.6212				3.1		15.0			
2,2-Dichloropropane	0.5072 0.4524	0.4912	0.5001	0.4602	0.4588	Ave		0.4783				5.0		15.0			
cis-1,2-Dichloroethene	0.3946 0.3589	0.3709	0.3779	0.3664	0.3677	Ave		0.3727				3.3		15.0			
2-Butanone (MEK)	0.1568 0.1447	0.1536	0.1451	0.1510	0.1467	Ave		0.1496				3.3		15.0			
Bromochloromethane	0.2058 0.1884	0.1913	0.2059	0.1960	0.1958	Ave		0.1972				3.7		15.0			
Tetrahydrofuran	0.1020 0.0942	0.1019	0.0980	0.1009	0.0971	Ave		0.0990				3.2		15.0			
Chloroform	0.6208 0.5245	0.5543	0.5664	0.5389	0.5375	Ave		0.5571				6.2		30.0			
1,1,1-Trichloroethane	0.5375 0.4928	0.5012	0.5190	0.4843	0.4947	Ave		0.5049				3.9		15.0			
Cyclohexane	0.5469 0.4936	0.5428	0.5503	0.5052	0.4920	Ave		0.5218				5.3		15.0			
Carbon tetrachloride	0.4414 0.4373	0.4446	0.4645	0.4314	0.4403	Ave		0.4433				2.6		15.0			
1,1-Dichloropropene	0.4372 0.4192	0.4452	0.4653	0.4293	0.4281	Ave		0.4374				3.7		15.0			
Benzene	1.3683 1.2390	1.3008	1.3514	1.2755	1.2675	Ave		1.3004				3.9		15.0			
1,2-Dichloroethane	0.4682 0.4076	0.4392	0.4498	0.4266	0.4233	Ave		0.4358				4.9		15.0			
Trichloroethene	0.3587 0.3299	0.3366	0.3460	0.3314	0.3338	Ave		0.3394				3.2		15.0			
Methylcyclohexane	0.5242 0.5187	0.5516	0.5535	0.5230	0.5159	Ave		0.5312				3.2		15.0			
1,2-Dichloropropane	0.3619 0.3219	0.3367	0.3494	0.3383	0.3325	Ave		0.3401				4.1		30.0			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	0.2363 0.2086	0.2121	0.2185	0.2088	0.2114	Ave		0.2159				4.9		15.0			
Bromodichloromethane	0.4551 0.4326	0.4266	0.4451	0.4301	0.4365	Ave		0.4377				2.4		15.0			
2-Chloroethyl vinyl ether	0.2252 0.2120	0.2281	0.2257	0.2258	0.2191	Ave		0.2226				2.7		15.0			
cis-1,3-Dichloropropene	0.5902 0.5544	0.5573	0.5924	0.5633	0.5620	Ave		0.5699				3.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.6808 0.6786	0.7077	0.6672	0.7188	0.7007	Ave		0.6923				2.9		15.0			
Toluene	1.9352 1.9068	1.8873	1.8947	1.8720	1.9090	Ave		1.9008				1.1		30.0			
trans-1,3-Dichloropropene	1.1572 1.1979	1.1317	1.1422	1.1606	1.1955	Ave		1.1642				2.3		15.0			
Ethyl methacrylate	1.0023 1.0150	0.9797	0.9549	1.0110	1.0193	Ave		0.9970				2.5		15.0			
1,1,2-Trichloroethane	0.6056 0.5487	0.5408	0.5453	0.5485	0.5596	Ave		0.5581				4.3		15.0			
Tetrachloroethene	0.8783 0.8814	0.8836	0.8838	0.8560	0.8765	Ave		0.8766				1.2		15.0			
1,3-Dichloropropane	1.2462 1.1639	1.1698	1.1757	1.1745	1.1866	Ave		1.1861				2.6		15.0			
2-Hexanone	0.5148 0.4808	0.5007	0.4776	0.5068	0.4935	Ave		0.4957				2.9		15.0			
Chlorodibromomethane	0.7783 0.8882	0.7767	0.8263	0.8439	0.8745	Ave		0.8313				5.7		15.0			
1,2-Dibromoethane (EDB)	0.7634 0.7654	0.7168	0.7390	0.7473	0.7542	Ave		0.7477				2.4		15.0			
Chlorobenzene	2.2812 2.1779	2.1421	2.1802	2.1564	2.1779	Ave		2.1859			0.3000	2.2		15.0			
1,1,1,2-Tetrachloroethane	0.7997 0.8051	0.7740	0.7990	0.7818	0.7999	Ave		0.7933				1.6		15.0			
Ethylbenzene	3.7059 3.3484	3.4698	3.5468	3.3993	3.4114	Ave		3.4803				3.7		30.0			
m,p-Xylene	1.4978 1.4357	1.4463	1.4729	1.4320	1.4310	Ave		1.4526				1.9		15.0			
o-Xylene	1.4867 1.4574	1.4162	1.4719	1.4309	1.4641	Ave		1.4545				1.8		15.0			
Styrene	2.5344 2.4431	2.3764	2.4943	2.4426	2.4818	Ave		2.4621				2.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.4828 0.6185	0.4992	0.5212	0.5661	0.5943	Ave		0.5470			0.1000	9.9		15.0			
Isopropylbenzene	3.4601 3.2782	3.3485	3.3814	3.3567	3.3563	Ave		3.3635				1.7		15.0			
Bromobenzene	0.9570 0.8797	0.8994	0.8974	0.9097	0.9055	Ave		0.9081				2.9		15.0			
1,1,2,2-Tetrachloroethane	0.8565 0.7885	0.7968	0.7982	0.8341	0.8221	Ave		0.8160			0.3000	3.2		15.0			
1,2,3-Trichloropropane	0.2908 0.2475	0.2571	0.2517	0.2649	0.2570	Ave		0.2615				5.9		15.0			
trans-1,4-Dichloro-2-butene	0.2175 0.2010	0.2255	0.2161	0.2228	0.2131	Ave		0.2160				4.0		15.0			
N-Propylbenzene	4.1534 3.5987	3.9094	3.8731	3.7607	3.6914	Ave		3.8311				5.1		15.0			
2-Chlorotoluene	0.8747 0.8061	0.8184	0.8324	0.8274	0.8188	Ave		0.8296				2.9		15.0			
1,3,5-Trimethylbenzene	2.9003 2.6331	2.7420	2.7830	2.7235	2.6977	Ave		2.7466				3.3		15.0			
4-Chlorotoluene	0.9078 0.8351	0.8763	0.8885	0.8439	0.8467	Ave		0.8664				3.3		15.0			
tert-Butylbenzene	0.6421 0.6297	0.6315	0.6492	0.6338	0.6389	Ave		0.6375				1.2		15.0			
1,2,4-Trimethylbenzene	3.0364 2.6672	2.7702	2.8353	2.7574	2.7648	Ave		2.8052				4.5		15.0			
sec-Butylbenzene	3.5311 3.3760	3.4471	3.4887	3.4151	3.4450	Ave		3.4505				1.6		15.0			
1,3-Dichlorobenzene	1.7499 1.5568	1.6132	1.6638	1.6199	1.5970	Ave		1.6335				4.1		15.0			
4-Isopropyltoluene	3.0087 2.8434	2.9839	3.0016	2.9023	2.8650	Ave		2.9342				2.5		15.0			
1,4-Dichlorobenzene	1.7721 1.6140	1.6656	1.7136	1.6548	1.6576	Ave		1.6796				3.3		15.0			
n-Butylbenzene	2.5224 2.4586	2.5009	2.5474	2.4672	2.5077	Ave		2.5007				1.3		15.0			
1,2-Dichlorobenzene	1.6562 1.5161	1.5406	1.6082	1.5816	1.5783	Ave		1.5802				3.1		15.0			
1,2-Dibromo-3-Chloropropane	0.1402 0.1483	0.1354	0.1325	0.1435	0.1502	Ave		0.1417				4.9		15.0			
1,2,4-Trichlorobenzene	1.1376 1.0559	1.0449	1.0672	1.0660	1.0772	Ave		1.0748				3.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.4330 0.4018	0.4235	0.4326	0.4103	0.4053	Ave		0.4177				3.3		15.0			
Naphthalene	2.2417 2.2608	2.0975	2.0692	2.3221	2.3150	Ave		2.2177				4.9		15.0			
1,2,3-Trichlorobenzene	0.8710 0.8226	0.8227	0.8100	0.8533	0.8486	Ave		0.8380				2.8		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2111 0.1644	0.1703	0.1787	0.1579	0.1596	Ave		0.1737				11.0		15.0			
Toluene-d8 (Surr)	2.9089 2.6060	2.5602	2.6725	2.4673	2.5498	Ave		2.6275				5.8		15.0			
4-Bromofluorobenzene (Surr)	1.0988 0.8913	0.9086	0.9374	0.8315	0.8841	Ave		0.9253				9.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-89987/3	Q3886.D
Level 2	IC 480-89987/4	Q3887.D
Level 3	IC 480-89987/5	Q3888.D
Level 4	ICIS 480-89987/6	Q3889.D
Level 5	IC 480-89987/7	Q3890.D
Level 6	IC 480-89987/8	Q3891.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFB	Ave	11776 1092998	59169	113755	278420	565839	1.00 100	5.00	10.0	25.0	50.0
Chloromethane	DFB	Ave	14351 1166667	64591	128018	297451	601245	1.00 100	5.00	10.0	25.0	50.0
Vinyl chloride	DFB	Ave	13096 1284740	65368	130989	320006	631455	1.00 100	5.00	10.0	25.0	50.0
Bromomethane	DFB	Lin	4019 424243	12843	36213	82938	184795	1.00 100	5.00	10.0	25.0	50.0
Chloroethane	DFB	Lin1	4480 282464	17224	30606	73472	144289	1.00 100	5.00	10.0	25.0	50.0
Trichlorofluoromethane	DFB	Ave	14791 1491986	80031	154210	387046	764704	1.00 100	5.00	10.0	25.0	50.0
Acrolein	DFB	Ave	19730 1769603	97608	172268	464657	899907	20.0 2000	100	200	500	1000
1,1,2-Trichlorotrifluoroethane	DFB	Ave	9215 900029	51530	97420	236115	462213	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloroethene	DFB	Ave	10233 925380	51034	97520	249490	478634	1.00 100	5.00	10.0	25.0	50.0
Acetone	DFB	Ave	20772 1506843	87384	150002	422204	797662	5.00 500	25.0	50.0	125	250
Iodomethane	DFB	Lin	2938 1129642	21318	73722	207182	517190	1.00 100	5.00	10.0	25.0	50.0
Carbon disulfide	DFB	Ave	31775 2941363	160119	308036	772167	1498828	1.00 100	5.00	10.0	25.0	50.0
Acetonitrile	DFB	Ave	30840 2689059	156140	281319	747574	1423605	40.0 4000	200	400	1000	2000
Methyl acetate	DFB	Ave	10270 967051	53445	94645	277234	496257	1.00 100	5.00	10.0	25.0	50.0
Methylene Chloride	DFB	Ave	14095 1078417	61719	114439	292702	567861	1.00 100	5.00	10.0	25.0	50.0
Methyl tert-butyl ether	DFB	Ave	33627 3189012	178410	322955	867812	1664208	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	DFB	Ave	12870 1052020	58304	111037	285825	554343	1.00 100	5.00	10.0	25.0	50.0
Acrylonitrile	DFB	Ave	20429 1817459	104061	189502	509339	960231	5.00 500	25.0	50.0	125	250
1,1-Dichloroethane	DFB	Ave	21763 1892921	102149	196335	495159	975240	1.00 100	5.00	10.0	25.0	50.0
Vinyl acetate	DFB	Ave	110864 9759390	575190	1051183	2741638	5259088	5.00 500	25.0	50.0	125	250
2,2-Dichloropropane	DFB	Ave	18049 1503834	87772	165797	404575	783951	1.00 100	5.00	10.0	25.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	14044 1193067	66278	125299	322112	628307	1.00 100	5.00	10.0	25.0	50.0
2-Butanone (MEK)	DFB	Ave	27894 2405640	137286	240575	663571	1253141	5.00 500	25.0	50.0	125	250
Bromochloromethane	DFB	Ave	7325 626346	34193	68268	172346	334558	1.00 100	5.00	10.0	25.0	50.0
Tetrahydrofuran	DFB	Ave	18153 1564922	91026	162505	443554	829910	5.00 500	25.0	50.0	125	250
Chloroform	DFB	Ave	22094 1743645	99053	187788	473766	918463	1.00 100	5.00	10.0	25.0	50.0
1,1,1-Trichloroethane	DFB	Ave	19128 1638292	89564	172071	425826	845331	1.00 100	5.00	10.0	25.0	50.0
Cyclohexane	DFB	Ave	19464 1640700	97005	182450	444138	840588	1.00 100	5.00	10.0	25.0	50.0
Carbon tetrachloride	DFB	Ave	15710 1453807	79456	154008	379244	752339	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloropropene	DFB	Ave	15561 1393611	79557	154254	377439	731495	1.00 100	5.00	10.0	25.0	50.0
Benzene	DFB	Ave	48696 4118619	232455	448036	1121403	2165620	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane	DFB	Ave	16663 1355064	78483	149123	375093	723266	1.00 100	5.00	10.0	25.0	50.0
Trichloroethene	DFB	Ave	12764 1096628	60156	114710	291348	570376	1.00 100	5.00	10.0	25.0	50.0
Methylcyclohexane	DFB	Ave	18656 1724211	98566	183519	459826	881544	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloropropane	DFB	Ave	12878 1070220	60161	115832	297470	568093	1.00 100	5.00	10.0	25.0	50.0
Dibromomethane	DFB	Ave	8409 693410	37896	72453	183571	361158	1.00 100	5.00	10.0	25.0	50.0
Bromodichloromethane	DFB	Ave	16195 1438130	76237	147566	378102	745873	1.00 100	5.00	10.0	25.0	50.0

FORM VI

GC/MS VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	DFB	Ave	40069 3523693	203799	374084	992408	1872098	5.00 500	25.0	50.0	125	250
cis-1,3-Dichloropropene	DFB	Ave	21003 1842965	99600	196410	495227	960279	1.00 100	5.00	10.0	25.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	55557 4952967	290794	520557	1436433	2677119	5.00 500	25.0	50.0	125	250
Toluene	CBZ	Ave	31587 2783540	155098	295636	748167	1458733	1.00 100	5.00	10.0	25.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	18888 1748590	93004	178223	463867	913509	1.00 100	5.00	10.0	25.0	50.0
Ethyl methacrylate	CBZ	Ave	16360 1481605	80511	148996	404062	778883	1.00 100	5.00	10.0	25.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	9885 800974	44445	85081	219210	427607	1.00 100	5.00	10.0	25.0	50.0
Tetrachloroethene	CBZ	Ave	14335 1286622	72617	137910	342094	669752	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichloropropane	CBZ	Ave	20341 1698951	96136	183447	469390	906690	1.00 100	5.00	10.0	25.0	50.0
2-Hexanone	CBZ	Ave	42014 3509117	205724	372648	1012674	1885536	5.00 500	25.0	50.0	125	250
Chlorodibromomethane	CBZ	Ave	12704 1296587	63828	128929	337266	668253	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromoethane (EDB)	CBZ	Ave	12460 1117281	58903	115306	298682	576289	1.00 100	5.00	10.0	25.0	50.0
Chlorobenzene	CBZ	Ave	37233 3179181	176041	340193	861844	1664135	1.00 100	5.00	10.0	25.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	13053 1175288	63605	124675	312452	611216	1.00 100	5.00	10.0	25.0	50.0
Ethylbenzene	CBZ	Ave	60488 4887865	285149	553426	1358581	2606715	1.00 100	5.00	10.0	25.0	50.0
m,p-Xylene	CBZ	Ave	48895 4191526	237715	459660	1144644	2186920	2.00 200	10.0	20.0	50.0	100
o-Xylene	CBZ	Ave	24266 2127459	116384	229672	571884	1118730	1.00 100	5.00	10.0	25.0	50.0
Styrene	CBZ	Ave	41366 3566334	195297	389206	976214	1896407	1.00 100	5.00	10.0	25.0	50.0
Bromoform	CBZ	Ave	7881 902871	41026	81328	226245	454113	1.00 100	5.00	10.0	25.0	50.0
Isopropylbenzene	DCB	Ave	60455 5256546	293461	580153	1436122	2792115	1.00 100	5.00	10.0	25.0	50.0
Bromobenzene	DCB	Ave	16721 1410559	78624	153963	389217	753303	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	14965 1264362	69835	136941	356875	683881	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichloropropane	DCB	Ave	5081 396935	22531	43183	113346	213816	1.00 100	5.00	10.0	25.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	19002 1611143	98795	185421	476678	886336	5.00 500	25.0	50.0	125	250
N-Propylbenzene	DCB	Ave	72569 5770389	342617	664511	1608981	3070867	1.00 100	5.00	10.0	25.0	50.0
2-Chlorotoluene	DCB	Ave	15283 1292505	71725	142811	353997	681128	1.00 100	5.00	10.0	25.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	50675 4222153	240309	477475	1165232	2244237	1.00 100	5.00	10.0	25.0	50.0
4-Chlorotoluene	DCB	Ave	15861 1339099	76798	152437	361033	704404	1.00 100	5.00	10.0	25.0	50.0
tert-Butylbenzene	DCB	Ave	11218 1009752	55344	111377	271151	531499	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	53052 4276769	242782	486451	1179699	2300056	1.00 100	5.00	10.0	25.0	50.0
sec-Butylbenzene	DCB	Ave	61695 5413383	302104	598550	1461102	2865854	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichlorobenzene	DCB	Ave	30574 2496253	141384	285467	693068	1328571	1.00 100	5.00	10.0	25.0	50.0
4-Isopropyltoluene	DCB	Ave	52569 4559401	261512	514982	1241707	2383374	1.00 100	5.00	10.0	25.0	50.0
1,4-Dichlorobenzene	DCB	Ave	30963 2587957	145977	294001	707992	1378956	1.00 100	5.00	10.0	25.0	50.0
n-Butylbenzene	DCB	Ave	44071 3942254	219178	437067	1055560	2086149	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene	DCB	Ave	28937 2431107	135016	275921	676663	1312987	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	2450 237812	11865	22741	61414	124964	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	19877 1693157	91572	183108	456088	896163	1.00 100	5.00	10.0	25.0	50.0
Hexachlorobutadiene	DCB	Ave	7566 644238	37113	74228	175522	337169	1.00 100	5.00	10.0	25.0	50.0
Naphthalene	DCB	Ave	39168 3625130	183825	355011	993463	1925808	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	15218 1319095	72102	138976	365073	705942	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	7512 546563	30431	59230	138859	272687	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1 Analy Batch No.: 89987

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2012 16:23 Calibration End Date: 11/09/2012 18:41 Calibration ID: 11113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBZ	Ave	47479 3804208	210397	417014	986097	1948327	1.00 100	5.00	10.0	25.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	17935 1301077	74670	146269	332316	675594	1.00 100	5.00	10.0	25.0	50.0

Curve Type Legend:
Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3886.D		
Lims ID:	IC	Client ID:	
Inject. Date:	09-Nov-2012 16:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	IC		
Misc. Info.:	480-0016505-003		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	89987	Lims Sample ID:	3
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:40:50	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: jonesr Date: 10-Nov-2012 09:40:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.008	-0.003	93	889714	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.198	0.003	82	408050	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.059	0.003	93	436802	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.700	4.697	0.003	80	7512	1.22	
$ 5 Toluene-d8 (Surr)	98	6.087	6.090	-0.003	84	47479	1.11	
$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.128	-0.003	86	17935	1.19	
10 Dichlorodifluoromethane	85	1.348	1.351	-0.003	68	11776	1.00	
12 Chloromethane	50	1.500	1.504	-0.004	77	14351	1.10	
13 Vinyl chloride	62	1.592	1.589	0.003	68	13096	0.9818	
14 Bromomethane	94	1.859	1.862	-0.003	88	4019	3.86	
15 Chloroethane	64	1.945	1.948	-0.003	69	4480	0.9505	
17 Trichlorofluoromethane	101	2.176	2.173	0.003	78	14791	0.9356	
20 Acrolein	56	2.602	2.599	0.003	88	19730	20.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.638	2.641	-0.003	56	9215	0.9410	
22 1,1-Dichloroethene	96	2.644	2.647	-0.003	83	10233	1.01	
23 Acetone	43	2.748	2.745	0.003	90	20772	5.99	
25 Iodomethane	142	2.784	2.781	0.003	52	2938	4.21	
26 Carbon disulfide	76	2.821	2.824	-0.003	94	31775	1.00	
29 Acetonitrile	40	2.991	2.988	0.003	100	30840	40.9	
27 Methyl acetate	43	3.015	3.006	0.009	92	10270	0.9789	
30 Methylene Chloride	84	3.082	3.085	-0.003	86	14095	1.14	
32 Methyl tert-butyl ether	73	3.295	3.286	0.009	88	33627	0.9711	
34 trans-1,2-Dichloroethene	96	3.289	3.292	-0.003	77	12870	1.09	
33 Acrylonitrile	53	3.307	3.304	0.003	99	20429	5.04	
39 1,1-Dichloroethane	63	3.630	3.633	-0.003	62	21763	1.05	
37 Vinyl acetate	43	3.678	3.675	0.003	96	110864	5.01	
44 2,2-Dichloropropane	77	4.068	4.065	0.003	79	18049	1.06	
45 cis-1,2-Dichloroethene	96	4.086	4.083	0.003	77	14044	1.06	
43 2-Butanone (MEK)	43	4.116	4.101	0.015	94	27894	5.24	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.268	4.271	-0.003	82	7325	1.04	
49 Tetrahydrofuran	42	4.317	4.302	0.015	89	18153	5.15	
50 Chloroform	83	4.329	4.332	-0.003	84	22094	1.11	
51 1,1,1-Trichloroethane	97	4.439	4.442	-0.003	77	19128	1.06	
52 Cyclohexane	56	4.463	4.466	-0.003	84	19464	1.05	
55 Carbon tetrachloride	117	4.560	4.557	0.003	81	15710	1.00	
54 1,1-Dichloropropene	75	4.560	4.563	-0.003	85	15561	1.00	
57 Benzene	78	4.719	4.722	-0.003	93	48696	1.05	
58 1,2-Dichloroethane	62	4.755	4.752	0.003	89	16663	1.07	
62 Trichloroethene	95	5.193	5.196	-0.003	79	12764	1.06	
64 Methylcyclohexane	83	5.309	5.312	-0.003	80	18656	0.9869	
65 1,2-Dichloropropane	63	5.370	5.367	0.004	86	12878	1.06	
67 Dibromomethane	93	5.473	5.470	0.003	76	8409	1.09	
68 Dichlorobromomethane	83	5.582	5.586	-0.004	85	16195	1.04	
69 2-Chloroethyl vinyl ether	63	5.789	5.786	0.003	87	40069	5.06	
72 cis-1,3-Dichloropropene	75	5.905	5.902	0.003	74	21003	1.04	
73 4-Methyl-2-pentanone (MIBK)	43	6.008	6.005	0.003	95	55557	4.92	
74 Toluene	92	6.142	6.139	0.003	95	31587	1.02	
77 trans-1,3-Dichloropropene	75	6.325	6.322	0.003	81	18888	0.99	
75 Ethyl methacrylate	69	6.361	6.364	-0.003	79	16360	1.01	
79 1,1,2-Trichloroethane	83	6.471	6.468	0.003	80	9885	1.09	
81 Tetrachloroethene	166	6.550	6.553	-0.003	92	14335	1.00	
82 1,3-Dichloropropane	76	6.592	6.589	0.003	79	20341	1.05	
80 2-Hexanone	43	6.635	6.632	0.003	95	42014	5.19	
83 Chlorodibromomethane	129	6.775	6.772	0.003	65	12704	0.9363	
84 Ethylene Dibromide	107	6.860	6.857	0.003	73	12460	1.02	
87 Chlorobenzene	112	7.219	7.222	-0.003	86	37233	1.04	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.283	0.003	70	13053	1.01	
88 Ethylbenzene	91	7.292	7.289	0.003	96	60488	1.06	
90 m-Xylene & p-Xylene	106	7.377	7.380	-0.003	97	48895	2.06	
91 o-Xylene	106	7.693	7.696	-0.003	91	24266	1.02	
92 Styrene	104	7.712	7.709	0.003	89	41366	1.03	
95 Bromoform	173	7.894	7.891	0.003	76	7881	0.8827	
94 Isopropylbenzene	105	7.979	7.982	-0.003	89	60455	1.03	
101 Bromobenzene	156	8.253	8.250	0.003	87	16721	1.05	
97 1,1,2,2-Tetrachloroethane	83	8.253	8.256	-0.003	77	14965	1.05	
100 1,2,3-Trichloropropane	110	8.290	8.287	0.003	61	5081	1.11	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.293	0.003	86	19002	5.04	
99 N-Propylbenzene	91	8.308	8.311	-0.003	88	72569	1.08	
103 2-Chlorotoluene	126	8.393	8.396	-0.003	93	15283	1.05	
102 1,3,5-Trimethylbenzene	105	8.448	8.451	-0.003	82	50675	1.06	
105 4-Chlorotoluene	126	8.484	8.481	0.003	90	15861	1.05	
106 tert-Butylbenzene	134	8.715	8.712	0.003	80	11218	1.01	
107 1,2,4-Trimethylbenzene	105	8.758	8.755	0.003	91	53052	1.08	
109 sec-Butylbenzene	105	8.892	8.889	0.003	84	61695	1.02	
111 1,3-Dichlorobenzene	146	9.007	9.004	0.003	70	30574	1.07	
110 4-Isopropyltoluene	119	9.007	9.004	0.003	93	52569	1.03	
113 1,4-Dichlorobenzene	146	9.080	9.077	0.003	84	30963	1.06	
115 n-Butylbenzene	91	9.342	9.345	-0.003	91	44071	1.01	
116 1,2-Dichlorobenzene	146	9.391	9.388	0.003	91	28937	1.05	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.039	0.003	29	2450	0.9896	
119 1,2,4-Trichlorobenzene	180	10.711	10.714	-0.003	80	19877	1.06	

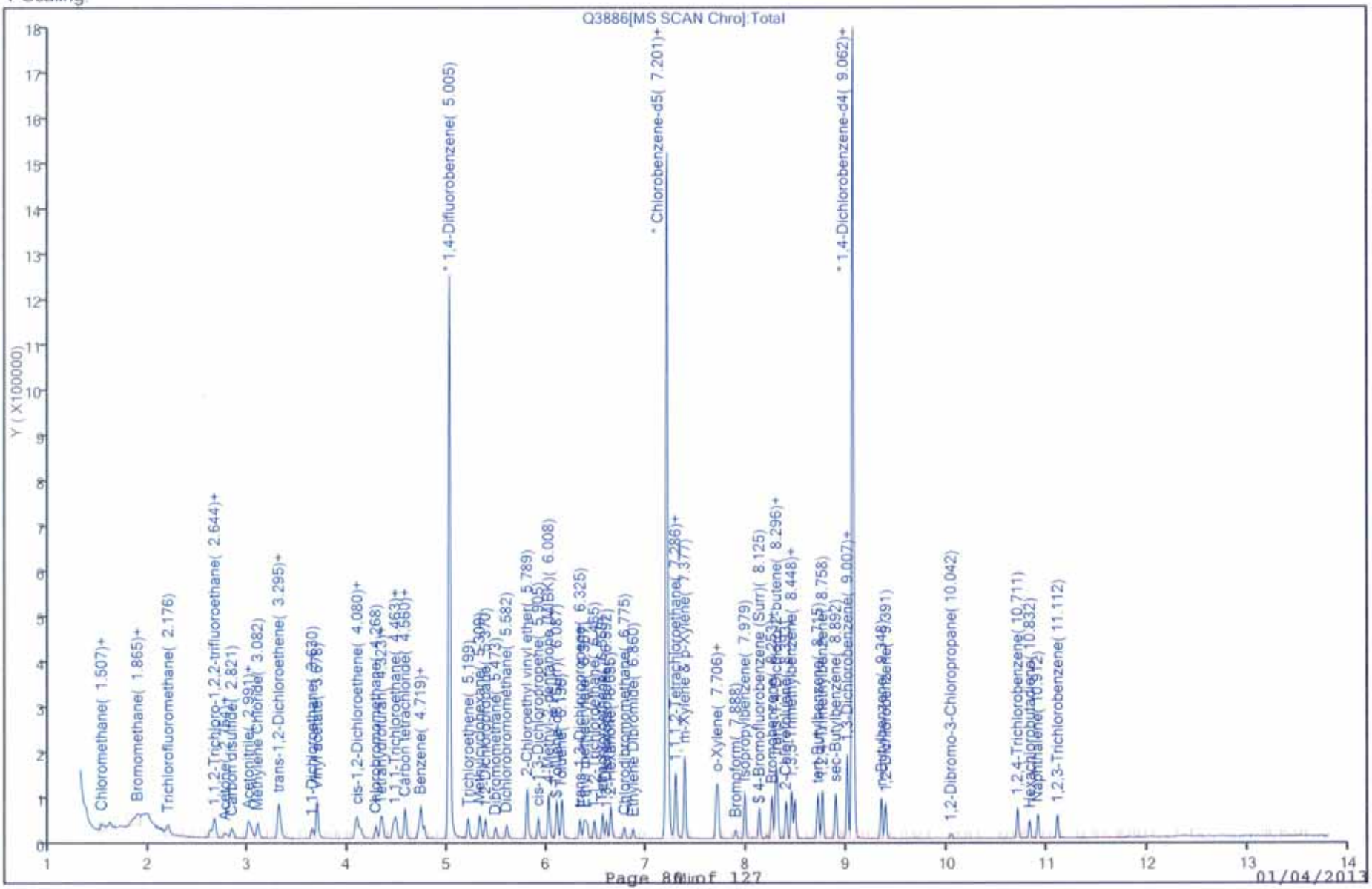
Report Date: 10-Nov-2012 09:40:51 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3886.D

Injection Date:	09-Nov-2012 16:23:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	3
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.832	10.829	0.003	63	7566	1.04	
121 Naphthalene	128	10.912	10.915	-0.003	84	39168	1.01	
122 1,2,3-Trichlorobenzene	180	11.112	11.109	0.003	78	15218	1.04	
S 125 1,2-Dichloroethene, Total	1				0		2.15	
S 126 1,3-Dichloropropene, Total	1				0		2.03	
S 123 Total BTEX	1				0		6.22	
S 124 Xylenes, Total	1				0		3.08	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3887.D		
Lims ID:	IC 2	Client ID:	
Inject. Date:	09-Nov-2012 16:51:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	IC 2		
Misc. Info.:	480-0016505-004		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	89987	Lims Sample ID:	4
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:41:23	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		
First Level Reviewer: jonesr		Date:	10-Nov-2012 09:41:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.008	-0.003	93	893523	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.198	0.003	84	410901	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.059	0.004	91	438200	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	96	30431	4.90	
$ 5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	81	210397	4.87	
$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	91	74670	4.91	
10 Dichlorodifluoromethane	85	1.349	1.351	-0.002	87	59169	5.01	
12 Chloromethane	50	1.501	1.504	-0.003	100	64591	4.95	
13 Vinyl chloride	62	1.592	1.589	0.003	96	65368	4.88	
14 Bromomethane	94	1.866	1.862	0.004	89	12843	5.80	
15 Chloroethane	64	1.951	1.948	0.003	90	17224	5.18	
17 Trichlorofluoromethane	101	2.176	2.173	0.003	82	80031	5.04	
20 Acrolein	56	2.602	2.599	0.003	95	97608	102.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.638	2.641	-0.003	76	51530	5.24	
22 1,1-Dichloroethene	96	2.644	2.647	-0.003	89	51034	5.01	
23 Acetone	43	2.748	2.745	0.003	100	87384	25.1	
25 Iodomethane	142	2.784	2.781	0.003	84	21318	5.69	
26 Carbon disulfide	76	2.827	2.824	0.003	98	160119	5.02	
29 Acetonitrile	40	2.991	2.988	0.003	99	156140	206.3	
27 Methyl acetate	43	3.009	3.006	0.003	95	53445	5.07	
30 Methylene Chloride	84	3.082	3.085	-0.003	89	61719	4.99	
32 Methyl tert-butyl ether	73	3.289	3.286	0.003	89	178410	5.13	
34 trans-1,2-Dichloroethene	96	3.289	3.292	-0.003	65	58304	4.92	
33 Acrylonitrile	53	3.308	3.304	0.004	98	104061	25.6	
39 1,1-Dichloroethane	63	3.636	3.633	0.003	93	102149	4.93	
37 Vinyl acetate	43	3.679	3.675	0.004	97	575190	25.9	
44 2,2-Dichloropropane	77	4.068	4.065	0.003	88	87772	5.13	
45 cis-1,2-Dichloroethene	96	4.086	4.083	0.003	81	66278	4.98	
43 2-Butanone (MEK)	43	4.111	4.101	0.010	95	137286	25.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	93	34193	4.85	
49 Tetrahydrofuran	42	4.305	4.302	0.003	88	91026	25.7	
50 Chloroform	83	4.330	4.332	-0.002	93	99053	4.97	
51 1,1,1-Trichloroethane	97	4.445	4.442	0.003	89	89564	4.96	
52 Cyclohexane	56	4.463	4.466	-0.003	89	97005	5.20	
55 Carbon tetrachloride	117	4.561	4.557	0.004	87	79456	5.02	
54 1,1-Dichloropropene	75	4.567	4.563	0.004	95	79557	5.09	
57 Benzene	78	4.719	4.722	-0.003	96	232455	5.00	
58 1,2-Dichloroethane	62	4.755	4.752	0.003	95	78483	5.04	
62 Trichloroethene	95	5.200	5.196	0.004	94	60156	4.96	
64 Methylcyclohexane	83	5.309	5.312	-0.003	88	98566	5.19	
65 1,2-Dichloropropane	63	5.370	5.367	0.004	94	60161	4.95	
67 Dibromomethane	93	5.473	5.470	0.003	87	37896	4.91	
68 Dichlorobromomethane	83	5.583	5.586	-0.003	98	76237	4.87	
69 2-Chloroethyl vinyl ether	63	5.790	5.786	0.004	93	203799	25.6	
72 cis-1,3-Dichloropropene	75	5.905	5.902	0.003	90	99600	4.89	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.005	0.004	96	290794	25.6	
74 Toluene	92	6.136	6.139	-0.003	95	155098	4.96	
77 trans-1,3-Dichloropropene	75	6.325	6.322	0.003	89	93004	4.86	
75 Ethyl methacrylate	69	6.361	6.364	-0.003	88	80511	4.91	
79 1,1,2-Trichloroethane	83	6.465	6.468	-0.003	85	44445	4.85	
81 Tetrachloroethene	166	6.550	6.553	-0.003	98	72617	5.04	
82 1,3-Dichloropropane	76	6.593	6.589	0.004	89	96136	4.93	
80 2-Hexanone	43	6.635	6.632	0.003	96	205724	25.3	
83 Chlorodibromomethane	129	6.775	6.772	0.003	89	63828	4.67	
84 Ethylene Dibromide	107	6.860	6.857	0.003	98	58903	4.79	
87 Chlorobenzene	112	7.219	7.222	-0.003	88	176041	4.90	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.283	0.003	90	63605	4.88	
88 Ethylbenzene	91	7.292	7.289	0.003	98	285149	4.98	
90 m-Xylene & p-Xylene	106	7.377	7.380	-0.003	97	237715	9.96	
91 o-Xylene	106	7.694	7.696	-0.002	96	116384	4.87	
92 Styrene	104	7.712	7.709	0.003	95	195297	4.83	
95 Bromoform	173	7.888	7.891	-0.003	94	41026	4.56	
94 Isopropylbenzene	105	7.980	7.982	-0.002	95	293461	4.98	
101 Bromobenzene	156	8.247	8.250	-0.003	91	78824	4.95	
97 1,1,2,2-Tetrachloroethane	83	8.253	8.256	-0.003	77	69835	4.88	
100 1,2,3-Trichloropropane	110	8.290	8.287	0.003	70	22531	4.92	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.293	0.003	90	98795	26.1	
99 N-Propylbenzene	91	8.308	8.311	-0.003	98	342617	5.10	
103 2-Chlorotoluene	126	8.393	8.396	-0.003	97	71725	4.93	
102 1,3,5-Trimethylbenzene	105	8.448	8.451	-0.003	84	240309	4.99	
105 4-Chlorotoluene	126	8.485	8.481	0.004	95	76798	5.06	
106 tert-Butylbenzene	134	8.716	8.712	0.004	88	55344	4.95	
107 1,2,4-Trimethylbenzene	105	8.758	8.755	0.003	96	242782	4.94	
109 sec-Butylbenzene	105	8.892	8.889	0.003	92	302104	5.00	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	72	141384	4.94	
110 4-Isopropyltoluene	119	9.008	9.004	0.004	96	261512	5.08	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	94	145977	4.96	
115 n-Butylbenzene	91	9.342	9.345	-0.003	94	219178	5.00	
116 1,2-Dichlorobenzene	146	9.391	9.388	0.003	97	135016	4.87	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.039	0.003	71	11865	4.78	
119 1,2,4-Trichlorobenzene	180	10.711	10.714	-0.003	93	91572	4.86	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.829	0.004	92	37113	5.07	
121 Naphthalene	128	10.912	10.915	-0.003	96	183825	4.73	
122 1,2,3-Trichlorobenzene	180	11.113	11.109	0.004	95	72102	4.91	
S 125 1,2-Dichloroethene, Total	1				0		9.90	
S 126 1,3-Dichloropropene, Total	1				0		9.75	
S 123 Total BTEX	1				0		29.8	
S 124 Xylenes, Total	1				0		14.8	

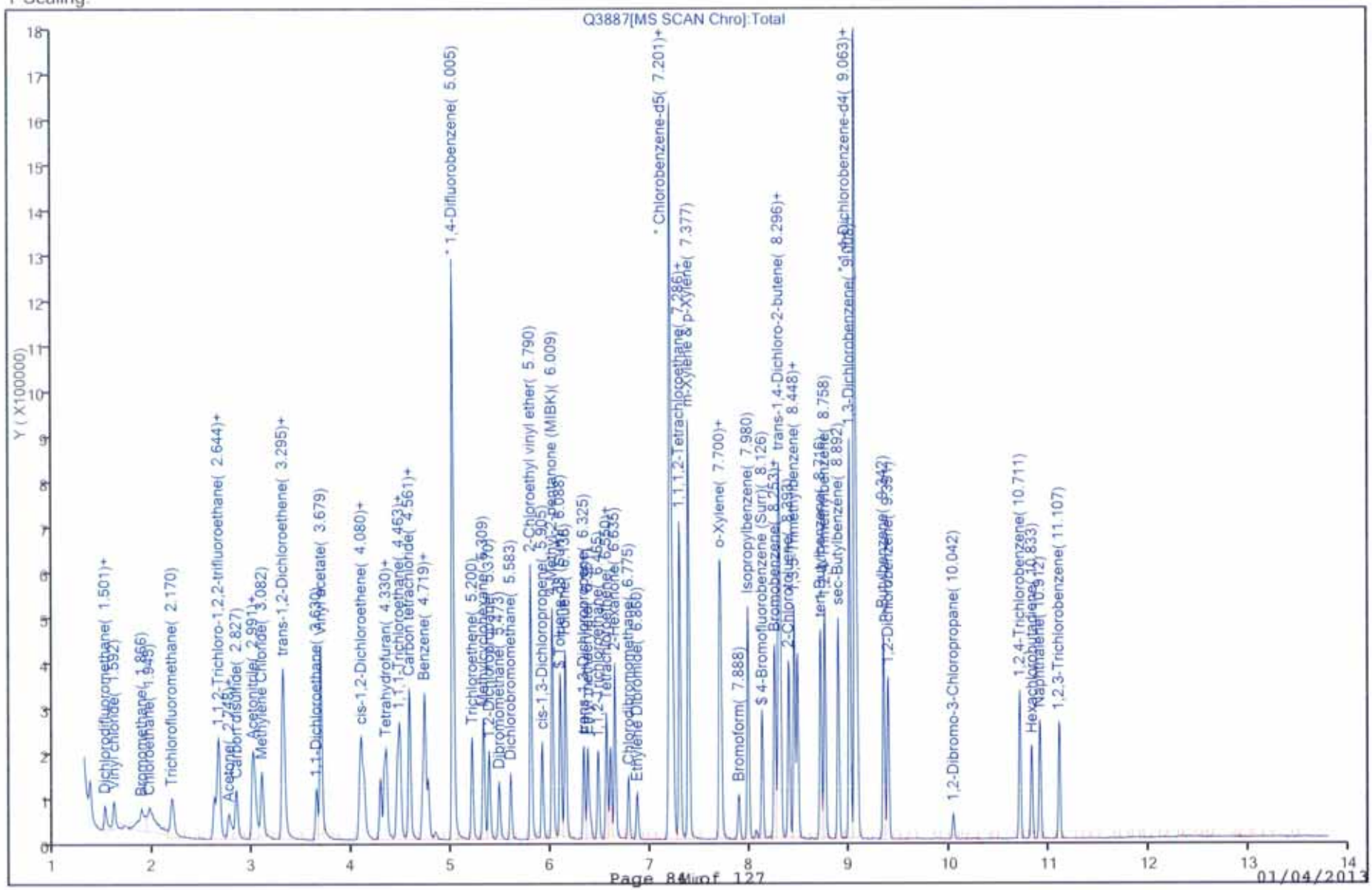
Report Date: 10-Nov-2012 09:41:23 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3887.D

Injection Date:	09-Nov-2012 16:51:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	4
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

Report Date: 10-Nov-2012 09:41:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3888.D		
Lims ID:	IC 3	Client ID:	
Inject. Date:	09-Nov-2012 17:18:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	IC 3		
Misc. Info.:	480-0016505-005		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	89987	Lims Sample ID:	5
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:41:54	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: jonesr Date: 10-Nov-2012 09:41:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.008	-0.003	93	828838	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.198	-0.003	85	390090	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.059	0.004	89	428926	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	89	59230	10.3	
$ 5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	83	417014	10.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	94	146269	10.1	
10 Dichlorodifluoromethane	85	1.343	1.351	-0.008	87	113755	10.4	
12 Chloromethane	50	1.495	1.504	-0.009	89	128018	10.6	
13 Vinyl chloride	62	1.587	1.589	-0.003	97	130989	10.5	
14 Bromomethane	94	1.860	1.862	-0.002	87	36213	11.5	
15 Chloroethane	64	1.939	1.948	-0.009	97	30606	10.4	
17 Trichlorofluoromethane	101	2.164	2.173	-0.009	95	154210	10.5	
20 Acrolein	56	2.596	2.599	-0.003	94	172268	194.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.639	2.641	-0.002	74	97420	10.7	
22 1,1-Dichloroethene	96	2.639	2.647	-0.008	97	97520	10.3	
23 Acetone	43	2.742	2.745	-0.003	99	150002	46.4	
25 Iodomethane	142	2.779	2.781	-0.002	98	73722	10.4	
26 Carbon disulfide	76	2.821	2.824	-0.003	99	308036	10.4	
29 Acetonitrile	40	2.986	2.988	-0.002	99	281319	400.8	
27 Methyl acetate	43	3.004	3.006	-0.002	95	94645	9.68	
30 Methylene Chloride	84	3.083	3.085	-0.002	84	114439	9.97	
32 Methyl tert-butyl ether	73	3.290	3.286	0.004	89	322955	10.0	
34 trans-1,2-Dichloroethene	96	3.290	3.292	-0.002	65	111037	10.1	
33 Acrylonitrile	53	3.302	3.304	-0.002	98	189502	50.2	
39 1,1-Dichloroethane	63	3.631	3.633	-0.002	95	196335	10.2	
37 Vinyl acetate	43	3.673	3.675	-0.002	97	1051183	51.0	
44 2,2-Dichloropropane	77	4.062	4.065	-0.003	89	165797	10.5	
45 cis-1,2-Dichloroethene	96	4.081	4.083	-0.002	68	125299	10.1	
43 2-Butanone (MEK)	43	4.105	4.101	0.004	95	240575	48.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	90	68268	10.4	
49 Tetrahydrofuran	42	4.300	4.302	-0.002	89	162505	49.5	
50 Chloroform	83	4.330	4.332	-0.002	80	187788	10.2	
51 1,1,1-Trichloroethane	97	4.440	4.442	-0.002	92	172071	10.3	
52 Cyclohexane	56	4.464	4.466	-0.002	90	182450	10.5	
55 Carbon tetrachloride	117	4.561	4.557	0.004	88	154008	10.5	
54 1,1-Dichloropropene	75	4.561	4.563	-0.002	94	154254	10.6	
57 Benzene	78	4.719	4.722	-0.003	96	448036	10.4	
58 1,2-Dichloroethane	62	4.750	4.752	-0.002	96	149123	10.3	
62 Trichloroethene	95	5.194	5.196	-0.002	93	114710	10.2	
64 Methylcyclohexane	83	5.310	5.312	-0.002	89	183519	10.4	
65 1,2-Dichloropropane	63	5.370	5.367	0.004	95	115832	10.3	
67 Dibromomethane	93	5.468	5.470	-0.002	89	72453	10.1	
68 Dichlorobromomethane	83	5.583	5.586	-0.003	92	147566	10.2	
69 2-Chloroethyl vinyl ether	63	5.790	5.786	0.004	93	374084	50.7	
72 cis-1,3-Dichloropropene	75	5.906	5.902	0.004	88	196410	10.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.003	6.005	-0.002	96	520557	48.2	
74 Toluene	92	6.137	6.139	-0.002	98	295636	9.97	
77 trans-1,3-Dichloropropene	75	6.326	6.322	0.004	89	178223	9.81	
75 Ethyl methacrylate	69	6.362	6.364	-0.002	88	148996	9.58	
79 1,1,2-Trichloroethane	83	6.465	6.468	-0.003	85	85081	9.77	
81 Tetrachloroethene	166	6.551	6.553	-0.002	98	137910	10.1	
82 1,3-Dichloropropane	76	6.593	6.589	0.004	89	183447	9.91	
80 2-Hexanone	43	6.630	6.632	-0.002	96	372648	48.2	
83 Chlorodibromomethane	129	6.770	6.772	-0.002	86	128929	9.94	
84 Ethylene Dibromide	107	6.855	6.857	-0.002	98	115306	9.88	
87 Chlorobenzene	112	7.220	7.222	-0.002	89	340193	9.97	
89 1,1,1,2-Tetrachloroethane	131	7.287	7.283	0.004	90	124675	10.1	
88 Ethylbenzene	91	7.287	7.289	-0.002	98	553426	10.2	
90 m-Xylene & p-Xylene	106	7.378	7.380	-0.002	97	459660	20.3	
91 o-Xylene	106	7.694	7.696	-0.002	95	229672	10.1	
92 Styrene	104	7.713	7.709	0.004	95	389206	10.1	
95 Bromoform	173	7.889	7.891	-0.002	98	81328	9.53	
94 Isopropylbenzene	105	7.980	7.982	-0.002	95	580153	10.1	
101 Bromobenzene	156	8.248	8.250	-0.002	92	153963	9.88	
97 1,1,2,2-Tetrachloroethane	83	8.254	8.256	-0.002	84	136941	9.78	
100 1,2,3-Trichloropropane	110	8.290	8.287	0.003	72	43183	9.62	
98 trans-1,4-Dichloro-2-butene	53	8.297	8.293	0.004	85	185421	50.0	
99 N-Propylbenzene	91	8.309	8.311	-0.002	93	664511	10.1	
103 2-Chlorotoluene	126	8.394	8.396	-0.002	97	142811	10.0	
102 1,3,5-Trimethylbenzene	105	8.449	8.451	-0.002	74	477475	10.1	
105 4-Chlorotoluene	126	8.485	8.481	0.004	95	152437	10.3	
106 tert-Butylbenzene	134	8.716	8.712	0.004	88	111377	10.2	
107 1,2,4-Trimethylbenzene	105	8.759	8.755	0.004	96	486451	10.1	
109 sec-Butylbenzene	105	8.893	8.889	0.004	93	598550	10.1	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	71	285467	10.2	
110 4-Isopropyltoluene	119	9.008	9.004	0.004	97	514982	10.2	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	96	294001	10.2	
115 n-Butylbenzene	91	9.343	9.345	-0.002	94	437067	10.2	
116 1,2-Dichlorobenzene	146	9.392	9.388	0.004	97	275921	10.2	
117 1,2-Dibromo-3-Chloropropane	75	10.043	10.039	0.004	79	22741	9.35	
119 1,2,4-Trichlorobenzene	180	10.712	10.714	-0.002	93	183108	9.93	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.829	0.004	94	74228	10.4	
121 Naphthalene	128	10.912	10.915	-0.003	96	355011	9.33	
122 1,2,3-Trichlorobenzene	180	11.107	11.109	-0.002	95	138976	9.67	
S 125 1,2-Dichloroethene, Total	1				0		20.2	
S 126 1,3-Dichloropropene, Total	1				0		20.2	
S 123 Total BTEX	1				0		60.9	
S 124 Xylenes, Total	1				0		30.4	

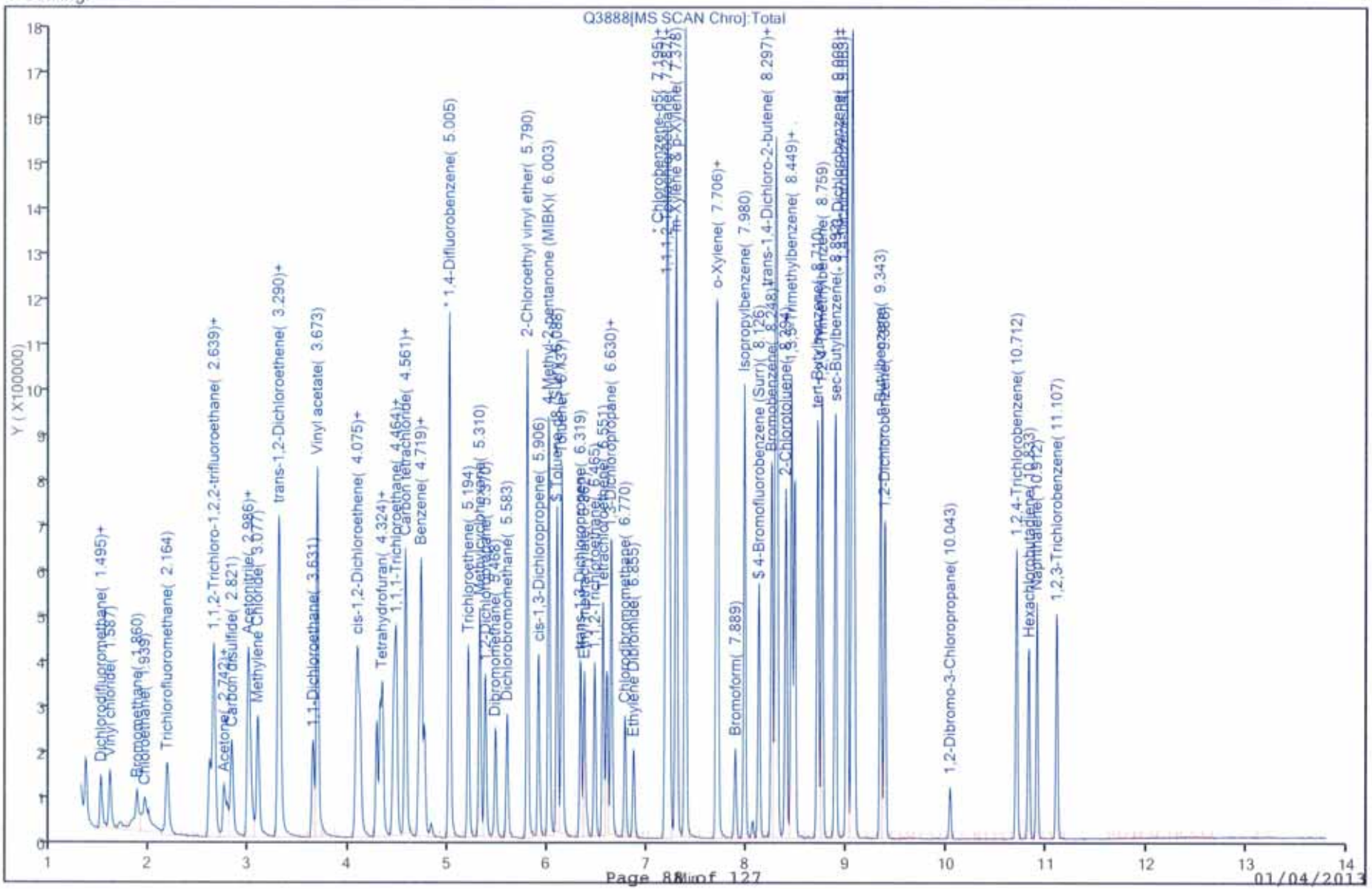
Report Date: 10-Nov-2012 09:41:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3888.D

Injection Date:	09-Nov-2012 17:18:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	5
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3889.D		
Lims ID:	ICIS 4	Client ID:	
Inject. Date:	09-Nov-2012 17:46:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	4
Sample ID:	ICIS 4		
Misc. Info.:	480-0016505-006		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	89987	Lims Sample ID:	6
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:37:03	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: jonesr Date: 10-Nov-2012 09:37:03

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.008	5.008	0.0	93	879190	25.0	
* 2 Chlorobenzene-d5	82	7.198	7.198	0.0	85	399662	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.059	0.0	73	427836	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.697	0.0	97	138859	22.7	
$ 5 Toluene-d8 (Surr)	98	6.090	6.090	0.0	82	986097	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.128	8.128	0.0	96	332316	22.5	
10 Dichlorodifluoromethane	85	1.351	1.351	0.0	99	278420	24.0	
12 Chloromethane	50	1.504	1.504	0.0	100	297451	23.2	
13 Vinyl chloride	62	1.589	1.589	0.0	97	320006	24.3	
14 Bromomethane	94	1.862	1.862	0.0	89	82938	21.5	
15 Chloroethane	64	1.948	1.948	0.0	98	73472	24.3	
17 Trichlorofluoromethane	101	2.173	2.173	0.0	87	387046	24.8	
20 Acrolein	56	2.599	2.599	0.0	96	464657	494.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.641	2.641	0.0	75	236115	24.4	
22 1,1-Dichloroethene	96	2.647	2.647	0.0	93	249490	24.9	
23 Acetone	43	2.745	2.745	0.0	100	422204	123.1	
25 Iodomethane	142	2.781	2.781	0.0	97	207182	21.0	
26 Carbon disulfide	76	2.824	2.824	0.0	99	772167	24.6	
29 Acetonitrile	40	2.988	2.988	0.0	99	747574	1004.0	
27 Methyl acetate	43	3.006	3.006	0.0	96	277234	26.7	
30 Methylene Chloride	84	3.085	3.085	0.0	85	292702	24.1	
32 Methyl tert-butyl ether	73	3.286	3.286	0.0	89	867812	25.4	
34 trans-1,2-Dichloroethene	96	3.292	3.292	0.0	93	285825	24.5	
33 Acrylonitrile	53	3.304	3.304	0.0	98	509339	127.2	
39 1,1-Dichloroethane	63	3.633	3.633	0.0	97	495159	24.3	
37 Vinyl acetate	43	3.675	3.675	0.0	97	2741638	125.5	
44 2,2-Dichloropropane	77	4.065	4.065	0.0	88	404575	24.1	
45 cis-1,2-Dichloroethene	96	4.083	4.083	0.0	68	322112	24.6	
43 2-Butanone (MEK)	43	4.101	4.101	0.0	95	663571	126.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.271	4.271	0.0	92	172346	24.8	
49 Tetrahydrofuran	42	4.302	4.302	0.0	87	443554	127.4	
50 Chloroform	83	4.332	4.332	0.0	80	473766	24.2	
51 1,1,1-Trichloroethane	97	4.442	4.442	0.0	92	425826	24.0	
52 Cyclohexane	56	4.466	4.466	0.0	90	444138	24.2	
55 Carbon tetrachloride	117	4.557	4.557	0.0	88	379244	24.3	
54 1,1-Dichloropropene	75	4.563	4.563	0.0	97	377439	24.5	
57 Benzene	78	4.722	4.722	0.0	96	1121403	24.5	
58 1,2-Dichloroethane	62	4.752	4.752	0.0	91	375093	24.5	
62 Trichloroethene	95	5.196	5.196	0.0	92	291348	24.4	
64 Methylcyclohexane	83	5.312	5.312	0.0	89	459826	24.6	
65 1,2-Dichloropropane	63	5.367	5.367	0.0	94	297470	24.9	
67 Dibromomethane	93	5.470	5.470	0.0	84	183571	24.2	
68 Dichlorobromomethane	83	5.586	5.586	0.0	93	378102	24.6	
69 2-Chloroethyl vinyl ether	63	5.786	5.786	0.0	91	992408	126.8	
72 cis-1,3-Dichloropropene	75	5.902	5.902	0.0	90	495227	24.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.0	96	1436433	129.8	
74 Toluene	92	6.139	6.139	0.0	92	748167	24.6	
77 trans-1,3-Dichloropropene	75	6.322	6.322	0.0	93	463867	24.9	
75 Ethyl methacrylate	69	6.364	6.364	0.0	88	404062	25.4	
79 1,1,2-Trichloroethane	83	6.468	6.468	0.0	91	219210	24.6	
81 Tetrachloroethene	166	6.553	6.553	0.0	97	342094	24.4	
82 1,3-Dichloropropane	76	6.589	6.589	0.0	86	469390	24.8	
80 2-Hexanone	43	6.632	6.632	0.0	96	1012674	127.8	
83 Chlorodibromomethane	129	6.772	6.772	0.0	89	337266	25.4	
84 Ethylene Dibromide	107	6.857	6.857	0.0	98	298682	25.0	
87 Chlorobenzene	112	7.222	7.222	0.0	88	861844	24.7	
89 1,1,1,2-Tetrachloroethane	131	7.283	7.283	0.0	89	312452	24.6	
88 Ethylbenzene	91	7.289	7.289	0.0	98	1358581	24.4	
90 m-Xylene & p-Xylene	106	7.380	7.380	0.0	97	1144644	49.3	
91 o-Xylene	106	7.696	7.696	0.0	94	571884	24.6	
92 Styrene	104	7.709	7.709	0.0	95	976214	24.8	
95 Bromoform	173	7.891	7.891	0.0	97	226245	25.9	
94 Isopropylbenzene	105	7.982	7.982	0.0	95	1436122	24.9	
101 Bromobenzene	156	8.250	8.250	0.0	91	389217	25.0	
97 1,1,2,2-Tetrachloroethane	83	8.256	8.256	0.0	86	356875	25.6	
100 1,2,3-Trichloropropane	110	8.287	8.287	0.0	73	113346	25.3	
98 trans-1,4-Dichloro-2-butene	53	8.293	8.293	0.0	90	476678	129.0	
99 N-Propylbenzene	91	8.311	8.311	0.0	96	1608981	24.5	
103 2-Chlorotoluene	126	8.396	8.396	0.0	98	353997	24.9	
102 1,3,5-Trimethylbenzene	105	8.451	8.451	0.0	75	1165232	24.8	
105 4-Chlorotoluene	126	8.481	8.481	0.0	95	361033	24.4	
106 tert-Butylbenzene	134	8.712	8.712	0.0	89	271151	24.9	
107 1,2,4-Trimethylbenzene	105	8.755	8.755	0.0	96	1179699	24.6	
109 sec-Butylbenzene	105	8.889	8.889	0.0	93	1461102	24.7	
111 1,3-Dichlorobenzene	146	9.004	9.004	0.0	92	693068	24.8	
110 4-Isopropyltoluene	119	9.004	9.004	0.0	96	1241707	24.7	
113 1,4-Dichlorobenzene	146	9.077	9.077	0.0	95	707992	24.6	
115 n-Butylbenzene	91	9.345	9.345	0.0	94	1055560	24.7	
116 1,2-Dichlorobenzene	146	9.388	9.388	0.0	98	676663	25.0	
117 1,2-Dibromo-3-Chloropropane	75	10.039	10.039	0.0	87	61414	25.3	
119 1,2,4-Trichlorobenzene	180	10.714	10.714	0.0	93	456088	24.8	

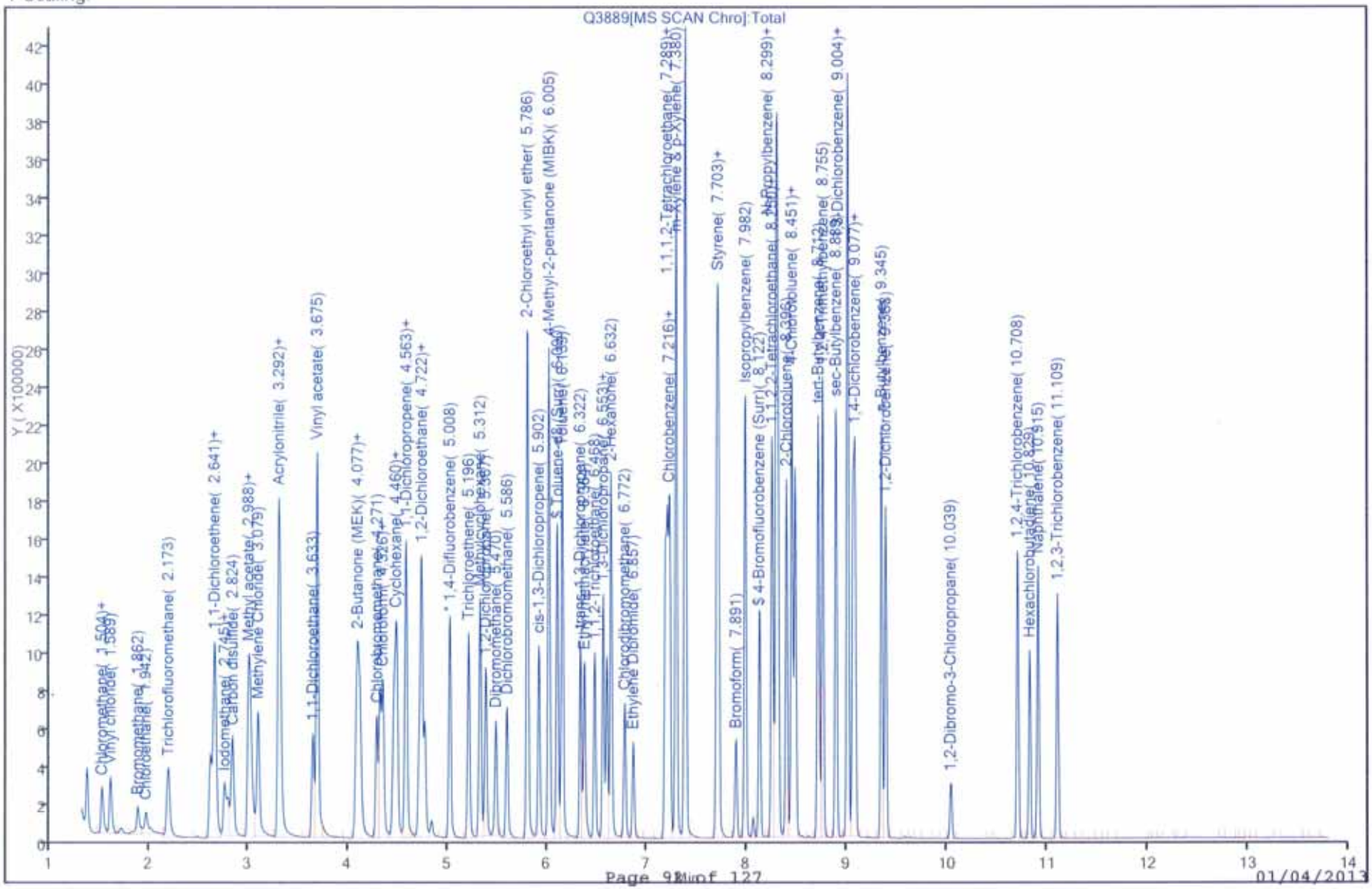
Report Date: 10-Nov-2012 09:37:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3889.D

Injection Date:	09-Nov-2012 17:46:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	6
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.829	10.829	0.0	96	175522	24.6	
121 Naphthalene	128	10.915	10.915	0.0	96	993463	26.2	
122 1,2,3-Trichlorobenzene	180	11.109	11.109	0.0	96	365073	25.5	
S 125 1,2-Dichloroethene, Total	1				0		49.1	
S 126 1,3-Dichloropropene, Total	1				0		49.6	
S 123 Total BTEX	1				0		147.4	
S 124 Xylenes, Total	1				0		73.9	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3890.D		
Lims ID:	IC 5	Client ID:	
Inject. Date:	09-Nov-2012 18:13:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	IC 5		
Misc. Info.:	480-0016505-007		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	89987	Lims Sample ID:	7
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:42:23	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: jonesr Date: 10-Nov-2012 09:42:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.007	5.008	-0.001	93	854320	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.198	-0.001	85	382059	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.059	0.0	65	415950	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.697	0.0	89	272687	45.9	
$ 5 Toluene-d8 (Surr)	98	6.090	6.090	0.0	83	1948327	48.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.128	8.128	0.0	96	675594	47.8	
10 Dichlorodifluoromethane	85	1.351	1.351	0.0	89	565839	50.1	
12 Chloromethane	50	1.497	1.504	-0.007	99	601245	48.2	
13 Vinyl chloride	62	1.588	1.589	-0.001	98	631455	49.3	
14 Bromomethane	94	1.862	1.862	0.0	90	184795	45.4	
15 Chloroethane	64	1.947	1.948	-0.001	99	144289	49.7	
17 Trichlorofluoromethane	101	2.166	2.173	-0.007	98	764704	50.4	
20 Acrolein	56	2.598	2.599	-0.001	97	899907	985.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.641	2.641	0.0	79	462213	49.2	
22 1,1-Dichloroethene	96	2.641	2.647	-0.006	95	478634	49.2	
23 Acetone	43	2.744	2.745	-0.001	100	797662	239.4	
25 Iodomethane	142	2.781	2.781	0.0	98	517190	47.7	
26 Carbon disulfide	76	2.823	2.824	-0.001	99	1498828	49.1	
29 Acetonitrile	40	2.987	2.988	-0.001	99	1423605	1967.7	
27 Methyl acetate	43	3.006	3.006	0.0	96	496257	49.2	
30 Methylene Chloride	84	3.085	3.085	0.0	93	567861	48.0	
32 Methyl tert-butyl ether	73	3.286	3.286	0.0	89	1664208	50.1	
34 trans-1,2-Dichloroethene	96	3.292	3.292	0.0	96	554343	48.9	
33 Acrylonitrile	53	3.304	3.304	0.0	99	960231	246.8	
39 1,1-Dichloroethane	63	3.632	3.633	-0.001	85	975240	49.2	
37 Vinyl acetate	43	3.675	3.675	0.0	97	5259088	247.7	
44 2,2-Dichloropropane	77	4.064	4.065	-0.001	88	783951	48.0	
45 cis-1,2-Dichloroethene	96	4.083	4.083	-0.001	68	628307	49.3	
43 2-Butanone (MEK)	43	4.101	4.101	0.0	95	1253141	245.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.271	4.271	0.0	88	334558	49.6	
49 Tetrahydrofuran	42	4.295	4.302	-0.007	88	829910	245.3	
50 Chloroform	83	4.332	4.332	0.0	83	918463	48.2	
51 1,1,1-Trichloroethane	97	4.441	4.442	-0.001	92	845331	49.0	
52 Cyclohexane	56	4.466	4.466	0.0	89	840588	47.1	
55 Carbon tetrachloride	117	4.557	4.557	0.0	87	752339	49.7	
54 1,1-Dichloropropene	75	4.563	4.563	0.0	97	731495	48.9	
57 Benzene	78	4.721	4.722	-0.001	96	2165620	48.7	
58 1,2-Dichloroethane	62	4.752	4.752	0.0	95	723266	48.6	
62 Trichloroethene	95	5.196	5.196	0.0	96	570376	49.2	
64 Methylcyclohexane	83	5.311	5.312	-0.001	88	881544	48.6	
65 1,2-Dichloropropane	63	5.366	5.367	0.0	94	568093	48.9	
67 Dibromomethane	93	5.470	5.470	0.0	86	361158	48.9	
68 Dichlorobromomethane	83	5.585	5.586	-0.001	99	745873	49.9	
69 2-Chloroethyl vinyl ether	63	5.792	5.786	0.006	91	1872098	246.1	
72 cis-1,3-Dichloropropene	75	5.901	5.902	-0.001	91	960279	49.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.0	96	2677119	253.0	
74 Toluene	92	6.139	6.139	0.0	92	1458733	50.2	
77 trans-1,3-Dichloropropene	75	6.321	6.322	-0.001	93	913509	51.3	
75 Ethyl methacrylate	69	6.364	6.364	0.0	88	778883	51.1	
79 1,1,2-Trichloroethane	83	6.467	6.468	-0.001	85	427607	50.1	
81 Tetrachloroethene	166	6.552	6.553	-0.001	92	669752	50.0	
82 1,3-Dichloropropane	76	6.589	6.589	0.0	87	906690	50.0	
80 2-Hexanone	43	6.631	6.632	-0.001	96	1885536	248.9	
83 Chlorodibromomethane	129	6.771	6.772	-0.001	87	668253	52.6	
84 Ethylene Dibromide	107	6.857	6.857	0.0	99	576289	50.4	
87 Chlorobenzene	112	7.222	7.222	0.0	89	1664135	49.8	
89 1,1,1,2-Tetrachloroethane	131	7.288	7.283	0.005	95	611216	50.4	
88 Ethylbenzene	91	7.288	7.289	-0.001	97	2606715	49.0	
90 m-Xylene & p-Xylene	106	7.380	7.380	0.0	96	2186920	98.5	
91 o-Xylene	106	7.696	7.696	0.0	95	1118730	50.3	
92 Styrene	104	7.714	7.709	0.005	95	1896407	50.4	
95 Bromoform	173	7.891	7.891	0.0	98	454113	54.3	
94 Isopropylbenzene	105	7.982	7.982	0.0	95	2792115	49.9	
101 Bromobenzene	156	8.250	8.250	0.0	89	753303	49.9	
97 1,1,2,2-Tetrachloroethane	83	8.256	8.256	0.0	81	683881	50.4	
100 1,2,3-Trichloropropane	110	8.292	8.287	0.005	74	213816	49.1	
98 trans-1,4-Dichloro-2-butene	53	8.298	8.293	0.005	90	886336	246.6	
99 N-Propylbenzene	91	8.311	8.311	-0.001	93	3070867	48.2	
103 2-Chlorotoluene	126	8.396	8.396	0.0	97	681128	49.3	
102 1,3,5-Trimethylbenzene	105	8.450	8.451	-0.001	74	2244237	49.1	
105 4-Chlorotoluene	126	8.487	8.481	0.006	95	704404	48.9	
106 tert-Butylbenzene	134	8.712	8.712	0.0	85	531499	50.1	
107 1,2,4-Trimethylbenzene	105	8.755	8.755	0.0	95	2300056	49.3	
109 sec-Butylbenzene	105	8.888	8.889	-0.001	93	2865854	49.9	
111 1,3-Dichlorobenzene	146	9.010	9.004	0.006	94	1328571	48.9	
110 4-Isopropyltoluene	119	9.010	9.004	0.006	95	2383374	48.8	
113 1,4-Dichlorobenzene	146	9.083	9.077	0.006	96	1378956	49.3	
115 n-Butylbenzene	91	9.345	9.345	0.0	94	2086149	50.1	
116 1,2-Dichlorobenzene	146	9.387	9.388	-0.001	97	1312987	49.9	
117 1,2-Dibromo-3-Chloropropane	75	10.038	10.039	-0.001	89	124964	53.0	
119 1,2,4-Trichlorobenzene	180	10.713	10.714	-0.001	93	896163	50.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.829	10.829	0.0	97	337169	48.5	
121 Naphthalene	128	10.914	10.915	-0.001	96	1925808	52.2	
122 1,2,3-Trichlorobenzene	180	11.109	11.109	0.0	96	705942	50.6	
S 125 1,2-Dichloroethene, Total	1				0		98.3	
S 126 1,3-Dichloropropene, Total	1				0		100.7	
S 123 Total BTEX	1				0		296.8	
S 124 Xylenes, Total	1				0		148.8	

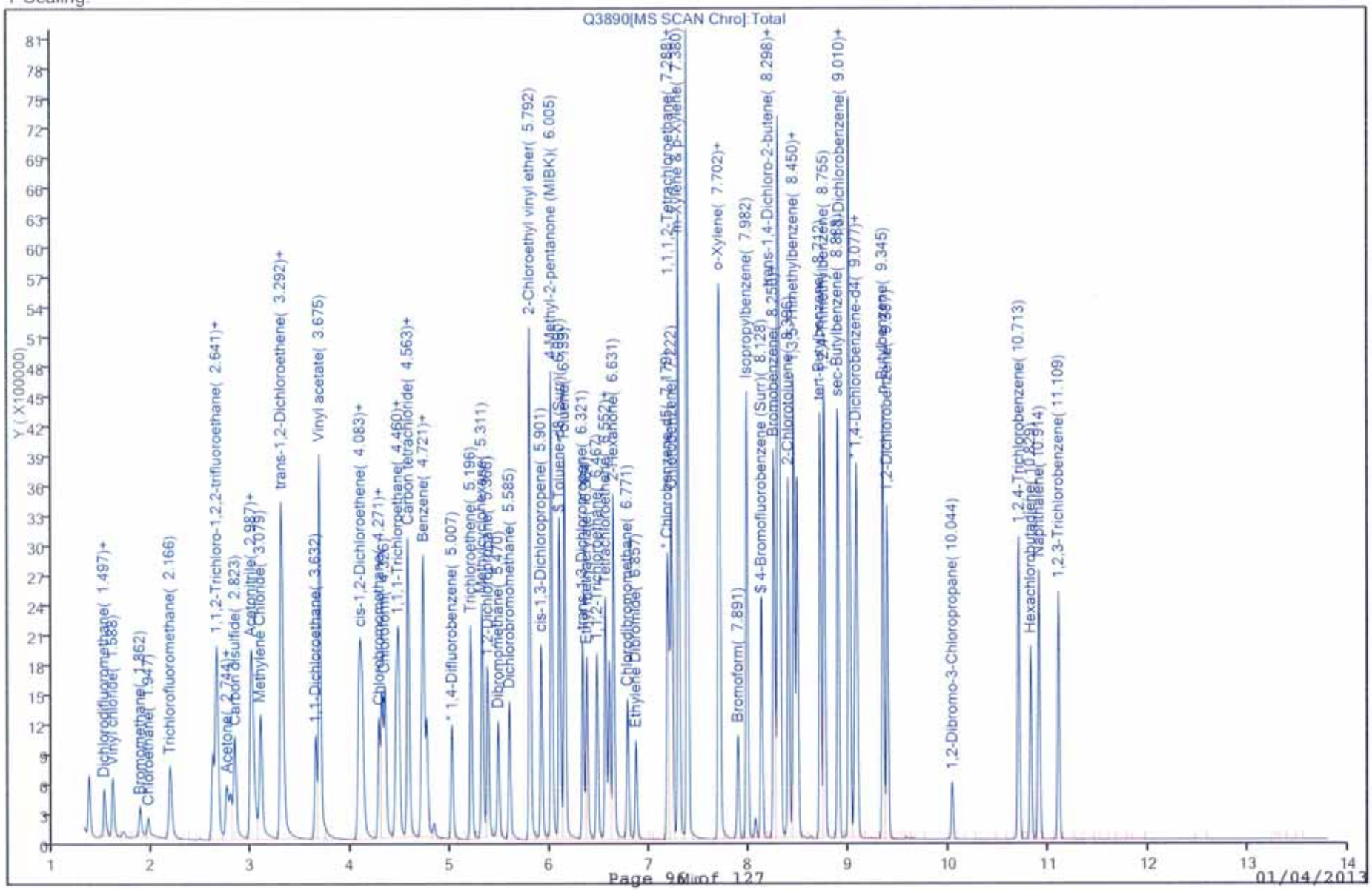
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TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3890.D

Injection Date:	09-Nov-2012 18:13:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	7
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

Report Date: 10-Nov-2012 09:42:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Lims ID:	IC 6	Client ID:	
Inject. Date:	09-Nov-2012 18:41:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	IC 6		
Misc. Info.:	480-0016505-008		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	89987	Lims Sample ID:	8
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	10-Nov-2012 09:42:49	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: jonesr Date: 10-Nov-2012 09:42:49

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
*	1 1,4-Difluorobenzene	114	5.005	5.008	-0.003	93	831061	25.0	
*	2 Chlorobenzene-d5	82	7.202	7.198	0.004	84	364942	25.0	
*	3 1,4-Dichlorobenzene-d4	152	9.063	9.059	0.004	92	400869	25.0	
$	4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	89	546563	94.7	
$	5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	82	3804208	99.2	
$	6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	93	1301077	96.3	
	10 Dichlorodifluoromethane	85	1.349	1.351	-0.002	89	1092998	99.5	
	12 Chloromethane	50	1.501	1.504	-0.003	89	1166667	96.1	
	13 Vinyl chloride	62	1.587	1.589	-0.002	83	1284740	103.1	
	14 Bromomethane	94	1.860	1.862	-0.002	91	424243	103.0	
	15 Chloroethane	64	1.945	1.948	-0.003	99	282464	100.5	
	17 Trichlorofluoromethane	101	2.171	2.173	-0.002	98	1491986	101.0	
	20 Acrolein	56	2.596	2.599	-0.003	98	1769603	1991.4	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.639	2.641	-0.002	82	900029	98.4	
	22 1,1-Dichloroethene	96	2.645	2.647	-0.002	89	925380	97.7	
	23 Acetone	43	2.742	2.745	-0.003	100	1506843	464.8	
	25 Iodomethane	142	2.779	2.781	-0.002	98	1129642	102.1	
	26 Carbon disulfide	76	2.821	2.824	-0.003	98	2941363	99.1	
	29 Acetonitrile	40	2.986	2.988	-0.002	99	2689059	3820.8	
	27 Methyl acetate	43	3.004	3.006	-0.002	95	967051	98.6	
	30 Methylene Chloride	84	3.083	3.085	-0.002	87	1078417	93.7	
	32 Methyl tert-butyl ether	73	3.284	3.286	-0.002	94	3189012	98.6	
	34 trans-1,2-Dichloroethene	96	3.290	3.292	-0.002	95	1052020	95.5	
	33 Acrylonitrile	53	3.308	3.304	0.004	100	1817459	480.2	
	39 1,1-Dichloroethane	63	3.631	3.633	-0.002	85	1892921	98.2	
	37 Vinyl acetate	43	3.673	3.675	-0.002	97	9759390	472.6	
	44 2,2-Dichloropropane	77	4.063	4.065	-0.003	89	1503834	94.6	
	45 cis-1,2-Dichloroethene	96	4.081	4.083	-0.002	81	1193067	96.3	
	43 2-Butanone (MEK)	43	4.099	4.101	-0.002	94	2405640	483.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	91	626346	95.5	
49 Tetrahydrofuran	42	4.294	4.302	-0.008	88	1564922	475.4	
50 Chloroform	83	4.330	4.332	-0.002	83	1743645	94.2	
51 1,1,1-Trichloroethane	97	4.440	4.442	-0.002	92	1638292	97.6	
52 Cyclohexane	56	4.464	4.466	-0.002	89	1640700	94.6	
55 Carbon tetrachloride	117	4.561	4.557	0.004	79	1453807	98.7	
54 1,1-Dichloropropene	75	4.561	4.563	-0.002	96	1393611	95.8	
57 Benzene	78	4.720	4.722	-0.002	96	4118619	95.3	
58 1,2-Dichloroethane	62	4.750	4.752	-0.002	95	1355064	93.5	
62 Trichloroethene	95	5.194	5.196	-0.002	92	1096628	97.2	
64 Methylcyclohexane	83	5.310	5.312	-0.002	88	1724211	97.7	
65 1,2-Dichloropropane	63	5.370	5.367	0.004	96	1070220	94.7	
67 Dibromomethane	93	5.468	5.470	-0.002	89	693410	96.6	
68 Dichlorobromomethane	83	5.583	5.586	-0.003	99	1438130	98.8	
69 2-Chloroethyl vinyl ether	63	5.790	5.786	0.004	91	3523693	476.1	
72 cis-1,3-Dichloropropene	75	5.906	5.902	0.004	90	1842965	97.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.005	0.004	95	4952967	490.1	
74 Toluene	92	6.143	6.139	0.004	93	2783540	100.3	
77 trans-1,3-Dichloropropene	75	6.326	6.322	0.004	88	1748590	102.9	
75 Ethyl methacrylate	69	6.362	6.364	-0.002	89	1481605	101.8	
79 1,1,2-Trichloroethane	83	6.465	6.468	-0.003	91	800974	98.3	
81 Tetrachloroethene	166	6.551	6.553	-0.002	92	1286622	100.5	
82 1,3-Dichloropropane	76	6.593	6.589	0.004	88	1698951	98.1	
80 2-Hexanone	43	6.636	6.632	0.004	95	3509117	485.0	
83 Chlorodibromomethane	129	6.776	6.772	0.004	85	1296587	106.8	
84 Ethylene Dibromide	107	6.861	6.857	0.004	99	1117281	102.4	
87 Chlorobenzene	112	7.220	7.222	-0.002	89	3179181	99.6	
89 1,1,1,2-Tetrachloroethane	131	7.287	7.283	0.004	90	1175288	101.5	
88 Ethylbenzene	91	7.293	7.289	0.004	97	4887865	96.2	
90 m-Xylene & p-Xylene	106	7.384	7.380	0.004	96	4191526	197.7	
91 o-Xylene	106	7.694	7.696	-0.002	95	2127459	100.2	
92 Styrene	104	7.713	7.709	0.004	95	3566334	99.2	
95 Bromoform	173	7.889	7.891	-0.002	96	902871	113.1	
94 Isopropylbenzene	105	7.980	7.982	-0.002	95	5256546	97.5	
101 Bromobenzene	156	8.248	8.250	-0.002	91	1410559	96.9	
97 1,1,2,2-Tetrachloroethane	83	8.260	8.256	0.004	96	1264362	96.6	
100 1,2,3-Trichloropropane	110	8.291	8.287	0.004	73	396935	94.7	
98 trans-1,4-Dichloro-2-butene	53	8.297	8.293	0.004	88	1611143	465.2	
99 N-Propylbenzene	91	8.315	8.311	0.004	94	5770389	93.9	
103 2-Chlorotoluene	126	8.400	8.396	0.004	98	1292505	97.2	
102 1,3,5-Trimethylbenzene	105	8.455	8.451	0.004	68	4222153	95.9	
105 4-Chlorotoluene	126	8.485	8.481	0.004	95	1339099	96.4	
106 tert-Butylbenzene	134	8.716	8.712	0.004	88	1009752	98.8	
107 1,2,4-Trimethylbenzene	105	8.759	8.755	0.004	96	4276769	95.1	
109 sec-Butylbenzene	105	8.893	8.889	0.004	93	5413383	97.8	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	71	2496253	95.3	
110 4-Isopropyltoluene	119	9.008	9.004	0.004	96	4559401	96.9	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	95	2587957	96.1	
115 n-Butylbenzene	91	9.343	9.345	-0.002	94	3942254	98.3	
116 1,2-Dichlorobenzene	146	9.392	9.388	0.004	98	2431107	95.9	
117 1,2-Dibromo-3-Chloropropane	75	10.043	10.039	0.004	90	237812	104.7	
119 1,2,4-Trichlorobenzene	180	10.712	10.714	-0.002	92	1693157	98.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.829	0.004	95	644238	96.2	
121 Naphthalene	128	10.912	10.915	-0.003	96	3625130	101.9	
122 1,2,3-Trichlorobenzene	180	11.113	11.109	0.004	93	1319095	98.2	
S 125 1,2-Dichloroethene, Total	1				0		191.8	
S 126 1,3-Dichloropropene, Total	1				0		200.2	
S 123 Total BTEX	1				0		589.7	
S 124 Xylenes, Total	1				0		297.9	

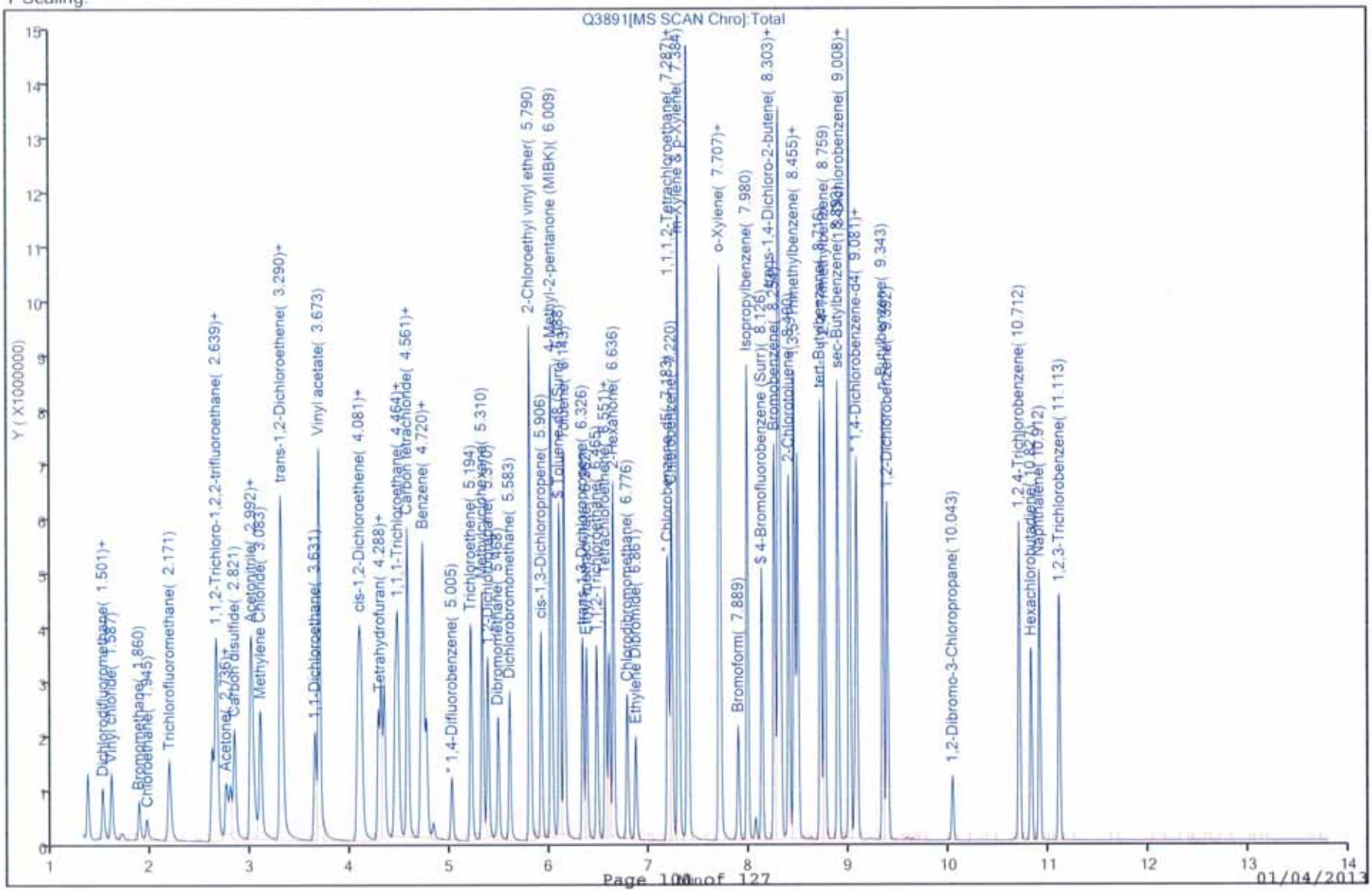
Report Date: 10-Nov-2012 09:42:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D

Injection Date:	09-Nov-2012 18:41:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	8
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Lab Sample ID: CCVIS 480-98090/2 Calibration Date: 01/02/2013 22:16

Instrument ID: HP5973Q Calib Start Date: 11/09/2012 16:23

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/09/2012 18:41

Lab File ID: Q5500.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3303	0.2759		20.9	25.0	-16.5	50.0
Chloromethane	Ave	0.3653	0.3099	0.1000	21.2	25.0	-15.2	50.0
Vinyl chloride	Ave	0.3748	0.3053		20.4	25.0	-18.5	20.0
Bromomethane	Lin		0.0523		13.2	25.0	-47.1	50.0
Chloroethane	Lin1		0.0999		29.2	25.0	16.6	50.0
Trichlorofluoromethane	Ave	0.4442	0.4032		22.7	25.0	-9.2	50.0
Acrolein	Ave	0.0267	0.0324		606	500	21.2	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2752	0.2701		24.5	25.0	-1.8	50.0
1,1-Dichloroethene	Ave	0.2849	0.2743	0.1000	24.1	25.0	-3.7	20.0
Acetone	Ave	0.0975	0.0753		96.5	125	-22.8	50.0
Iodomethane	Lin		0.0999		11.2	25.0	-55.3*	50.0
Carbon disulfide	Ave	0.8930	0.8258		23.1	25.0	-7.5	50.0
Acetonitrile	Ave	0.0212	0.0194		914	1000	-8.6	50.0
Methyl acetate	Ave	0.2950	0.2823		23.9	25.0	-4.3	50.0
Methylene Chloride	Ave	0.3460	0.3336		24.1	25.0	-3.6	50.0
Methyl tert-butyl ether	Ave	0.9730	0.9047		23.2	25.0	-7.0	50.0
trans-1,2-Dichloroethene	Ave	0.3315	0.3254		24.5	25.0	-1.8	50.0
Acrylonitrile	Ave	0.1139	0.1062		117	125	-6.7	50.0
1,1-Dichloroethane	Ave	0.5798	0.5546		23.9	25.0	-4.3	50.0
Vinyl acetate	Ave	0.6212	0.5652		114	125	-9.0	50.0
2,2-Dichloropropane	Ave	0.4783	0.4530		23.7	25.0	-5.3	50.0
cis-1,2-Dichloroethene	Ave	0.3727	0.3612		24.2	25.0	-3.1	50.0
2-Butanone (MEK)	Ave	0.1496	0.1299		108	125	-13.2	50.0
Bromochloromethane	Ave	0.1972	0.1959		24.8	25.0	-0.7	50.0
Tetrahydrofuran	Ave	0.0990	0.0869		110	125	-12.2	50.0
Chloroform	Ave	0.5571	0.5253		23.6	25.0	-5.7	20.0
1,1,1-Trichloroethane	Ave	0.5049	0.4636		23.0	25.0	-8.2	50.0
Cyclohexane	Ave	0.5218	0.5157		24.7	25.0	-1.2	50.0
1,1-Dichloropropene	Ave	0.4374	0.4278		24.4	25.0	-2.2	50.0
Carbon tetrachloride	Ave	0.4433	0.4148		23.4	25.0	-6.4	50.0
Benzene	Ave	1.300	1.268		24.4	25.0	-2.5	50.0
1,2-Dichloroethane	Ave	0.4358	0.3823		21.9	25.0	-12.3	50.0
Trichloroethene	Ave	0.3394	0.3321		24.5	25.0	-2.1	50.0
Methylcyclohexane	Ave	0.5312	0.5377		25.3	25.0	1.2	50.0
1,2-Dichloropropane	Ave	0.3401	0.3250		23.9	25.0	-4.4	20.0
Dibromomethane	Ave	0.2159	0.2033		23.5	25.0	-5.9	50.0
Bromodichloromethane	Ave	0.4377	0.4077		23.3	25.0	-6.8	50.0
2-Chloroethyl vinyl ether	Ave	0.2226	0.2071		116	125	-7.0	50.0
cis-1,3-Dichloropropene	Ave	0.5699	0.5388		23.6	25.0	-5.5	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6923	0.6398		116	125	-7.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Lab Sample ID: CCVIS 480-98090/2 Calibration Date: 01/02/2013 22:16

Instrument ID: HP5973Q Calib Start Date: 11/09/2012 16:23

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/09/2012 18:41

Lab File ID: Q5500.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.901	1.927		25.3	25.0	1.4	20.0
trans-1,3-Dichloropropene	Ave	1.164	1.129		24.2	25.0	-3.0	50.0
Ethyl methacrylate	Ave	0.997	0.9861		24.7	25.0	-1.1	50.0
1,1,2-Trichloroethane	Ave	0.5581	0.5448		24.4	25.0	-2.4	50.0
Tetrachloroethene	Ave	0.8766	0.8902		25.4	25.0	1.5	50.0
1,3-Dichloropropane	Ave	1.186	1.179		24.9	25.0	-0.6	50.0
2-Hexanone	Ave	0.4957	0.4499		113	125	-9.2	50.0
Chlorodibromomethane	Ave	0.8313	0.8253		24.8	25.0	-0.7	50.0
1,2-Dibromoethane (EDB)	Ave	0.7477	0.7328		24.5	25.0	-2.0	50.0
Chlorobenzene	Ave	2.186	2.242	0.3000	25.6	25.0	2.6	50.0
1,1,1,2-Tetrachloroethane	Ave	0.7933	0.7875		24.8	25.0	-0.7	50.0
Ethylbenzene	Ave	3.480	3.519		25.3	25.0	1.1	20.0
m,p-Xylene	Ave	1.453	1.467		50.5	50.0	1.0	50.0
o-Xylene	Ave	1.455	1.444		24.8	25.0	-0.7	50.0
Styrene	Ave	2.462	2.447		24.8	25.0	-0.6	50.0
Bromoform	Ave	0.5470	0.5288	0.1000	24.2	25.0	-3.3	50.0
Isopropylbenzene	Ave	3.364	3.666		27.2	25.0	9.0	50.0
Bromobenzene	Ave	0.9081	0.9716		26.7	25.0	7.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8160	0.8557	0.3000	26.2	25.0	4.9	50.0
1,2,3-Trichloropropane	Ave	0.2615	0.2573		24.6	25.0	-1.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2160	0.1987		115	125	-8.0	50.0
N-Propylbenzene	Ave	3.831	4.100		26.8	25.0	7.0	50.0
2-Chlorotoluene	Ave	0.8296	0.8981		27.1	25.0	8.3	50.0
1,3,5-Trimethylbenzene	Ave	2.747	2.929		26.7	25.0	6.6	50.0
4-Chlorotoluene	Ave	0.8664	0.9260		26.7	25.0	6.9	50.0
tert-Butylbenzene	Ave	0.6375	0.6841		26.8	25.0	7.3	50.0
1,2,4-Trimethylbenzene	Ave	2.805	2.973		26.5	25.0	6.0	50.0
sec-Butylbenzene	Ave	3.450	3.714		26.9	25.0	7.6	50.0
1,3-Dichlorobenzene	Ave	1.633	1.712		26.2	25.0	4.8	50.0
4-Isopropyltoluene	Ave	2.934	3.152		26.9	25.0	7.4	50.0
1,4-Dichlorobenzene	Ave	1.680	1.738		25.9	25.0	3.5	50.0
n-Butylbenzene	Ave	2.501	2.717		27.2	25.0	8.7	50.0
1,2-Dichlorobenzene	Ave	1.580	1.676		26.5	25.0	6.1	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1417	0.1322		23.3	25.0	-6.7	50.0
1,2,4-Trichlorobenzene	Ave	1.075	1.085		25.2	25.0	0.9	50.0
Hexachlorobutadiene	Ave	0.4177	0.4226		25.3	25.0	1.2	50.0
Naphthalene	Ave	2.218	2.321		26.2	25.0	4.7	50.0
1,2,3-Trichlorobenzene	Ave	0.8380	0.7925		23.6	25.0	-5.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1737	0.1465		20.2	25.0	-19.1	50.0
Toluene-d8 (Surr)	Ave	2.627	2.525		24.0	25.0	-3.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9253	0.8170		22.1	25.0	-11.7	50.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5500.D
Lims ID: CCVIS Client ID:
Inject. Date: 02-Jan-2013 22:16:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: CCVIS
Misc. Info.: 480-0017997-002
Operator: CDC Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 98090 Lims Sample ID: 2
Sublist: chrom-Q-8260*sub1
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m
Last Update: 02-Jan-2013 23:34:34 Calib Date: 09-Nov-2012 18:41:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK035

First Level Reviewer: cwiklinc Date: 02-Jan-2013 22:36:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.005	0.0	93	960594	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.201	0.0	83	416831	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	75	419466	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	96	134986	20.2	
$ 5 Toluene-d8 (Surr)	98	6.088	6.088	0.0	82	1052586	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.126	0.0	94	340538	22.1	
10 Dichlorodifluoromethane	85	1.349	1.349	0.0	86	265028	20.9	
12 Chloromethane	50	1.495	1.495	0.0	89	297701	21.2	
13 Vinyl chloride	62	1.592	1.592	0.0	82	293310	20.4	
14 Bromomethane	94	1.866	1.866	0.0	91	50272	13.2	
15 Chloroethane	64	1.945	1.945	0.0	99	95996	29.2	
17 Trichlorofluoromethane	101	2.164	2.164	0.0	85	387280	22.7	
20 Acrolein	56	2.602	2.602	0.0	95	622478	606.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.638	2.638	0.0	87	259491	24.5	
22 1,1-Dichloroethene	96	2.644	2.644	0.0	94	263525	24.1	
23 Acetone	43	2.748	2.748	0.0	99	361641	96.5	
25 Iodomethane	142	2.778	2.778	0.0	97	95922	11.2	
26 Carbon disulfide	76	2.821	2.821	0.0	98	793265	23.1	
29 Acetonitrile	40	2.991	2.991	0.0	98	743529	914.0	
27 Methyl acetate	43	3.009	3.009	0.0	95	271149	23.9	
30 Methylene Chloride	84	3.082	3.082	0.0	88	320403	24.1	
32 Methyl tert-butyl ether	73	3.289	3.289	0.0	87	869065	23.2	
34 trans-1,2-Dichloroethene	96	3.289	3.289	0.0	65	312600	24.5	
33 Acrylonitrile	53	3.307	3.307	0.0	99	510080	116.6	
39 1,1-Dichloroethane	63	3.630	3.630	0.0	96	532745	23.9	
37 Vinyl acetate	43	3.672	3.672	0.0	97	2714653	113.7	
44 2,2-Dichloropropane	77	4.068	4.068	0.0	86	435126	23.7	
45 cis-1,2-Dichloroethene	96	4.086	4.086	0.0	65	346964	24.2	
43 2-Butanone (MEK)	43	4.104	4.104	0.0	94	623652	108.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.269	0.0	92	188155	24.8	
49 Tetrahydrofuran	42	4.299	4.299	0.0	89	417547	109.7	
50 Chloroform	83	4.329	4.329	0.0	79	504601	23.6	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.0	91	445330	23.0	
52 Cyclohexane	56	4.463	4.463	0.0	88	495344	24.7	
55 Carbon tetrachloride	117	4.561	4.561	0.0	84	398407	23.4	
54 1,1-Dichloropropene	75	4.561	4.561	0.0	96	410908	24.4	
57 Benzene	78	4.719	4.719	0.0	95	1218162	24.4	
58 1,2-Dichloroethane	62	4.755	4.755	0.0	95	367246	21.9	
62 Trichloroethene	95	5.199	5.199	0.0	89	319011	24.5	
64 Methylcyclohexane	83	5.315	5.315	0.0	86	516483	25.3	
65 1,2-Dichloropropane	63	5.370	5.370	0.0	95	312179	23.9	
67 Dibromomethane	93	5.473	5.473	0.0	84	195286	23.5	
68 Dichlorobromomethane	83	5.583	5.583	0.0	94	391644	23.3	
69 2-Chloroethyl vinyl ether	63	5.789	5.789	0.0	90	994576	116.3	
72 cis-1,3-Dichloropropene	75	5.905	5.905	0.0	92	517544	23.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.002	6.002	0.0	95	1333534	115.5	
74 Toluene	92	6.136	6.136	0.0	98	803178	25.3	
77 trans-1,3-Dichloropropene	75	6.325	6.325	0.0	90	470543	24.2	
75 Ethyl methacrylate	69	6.361	6.361	0.0	86	411020	24.7	
79 1,1,2-Trichloroethane	83	6.465	6.465	0.0	84	227107	24.4	
81 Tetrachloroethene	166	6.550	6.550	0.0	97	371050	25.4	
82 1,3-Dichloropropane	76	6.593	6.593	0.0	85	491600	24.9	
80 2-Hexanone	43	6.635	6.635	0.0	95	937627	113.4	
83 Chlorodibromomethane	129	6.775	6.775	0.0	87	344019	24.8	
84 Ethylene Dibromide	107	6.860	6.860	0.0	98	305466	24.5	
87 Chlorobenzene	112	7.219	7.219	0.0	95	934455	25.6	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.286	0.0	89	328243	24.8	
88 Ethylbenzene	91	7.292	7.292	0.0	97	1466722	25.3	
90 m-Xylene & p-Xylene	106	7.377	7.377	0.0	96	1223209	50.5	
91 o-Xylene	106	7.700	7.700	0.0	92	601784	24.8	
92 Styrene	104	7.712	7.712	0.0	95	1020015	24.8	
95 Bromoform	173	7.888	7.888	0.0	97	220415	24.2	
94 Isopropylbenzene	105	7.980	7.980	0.0	95	1537564	27.2	
101 Bromobenzene	156	8.247	8.247	0.0	90	407549	26.7	
97 1,1,2,2-Tetrachloroethane	83	8.253	8.253	0.0	80	358922	26.2	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.0	71	107929	24.6	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.296	0.0	87	416796	115.0	
99 N-Propylbenzene	91	8.314	8.314	0.0	98	1719667	26.8	
103 2-Chlorotoluene	126	8.399	8.399	0.0	98	376709	27.1	
102 1,3,5-Trimethylbenzene	105	8.448	8.448	0.0	80	1228674	26.7	
105 4-Chlorotoluene	126	8.484	8.484	0.0	94	388409	26.7	
106 tert-Butylbenzene	134	8.716	8.716	0.0	88	286960	26.8	
107 1,2,4-Trimethylbenzene	105	8.758	8.758	0.0	96	1247036	26.5	
109 sec-Butylbenzene	105	8.892	8.892	0.0	93	1558078	26.9	
111 1,3-Dichlorobenzene	146	9.008	9.008	0.0	71	718014	26.2	
110 4-Isopropyltoluene	119	9.008	9.008	0.0	94	1321994	26.9	
113 1,4-Dichlorobenzene	146	9.081	9.081	0.0	95	729015	25.9	
115 n-Butylbenzene	91	9.342	9.342	0.0	94	1139855	27.2	
116 1,2-Dichlorobenzene	146	9.391	9.391	0.0	98	702944	26.5	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.042	0.0	86	55462	23.3	
119 1,2,4-Trichlorobenzene	180	10.711	10.711	0.0	91	454956	25.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.833	0.0	94	177256	25.3	
121 Naphthalene	128	10.918	10.918	0.0	96	973744	26.2	
122 1,2,3-Trichlorobenzene	180	11.113	11.113	0.0	94	332424	23.6	
S 123 Total BTEX	1				0		150.3	
S 124 Xylenes, Total	1				0		75.3	
S 125 1,2-Dichloroethene, Total	1				0		48.8	
S 126 1,3-Dichloropropene, Total	1				0		47.9	

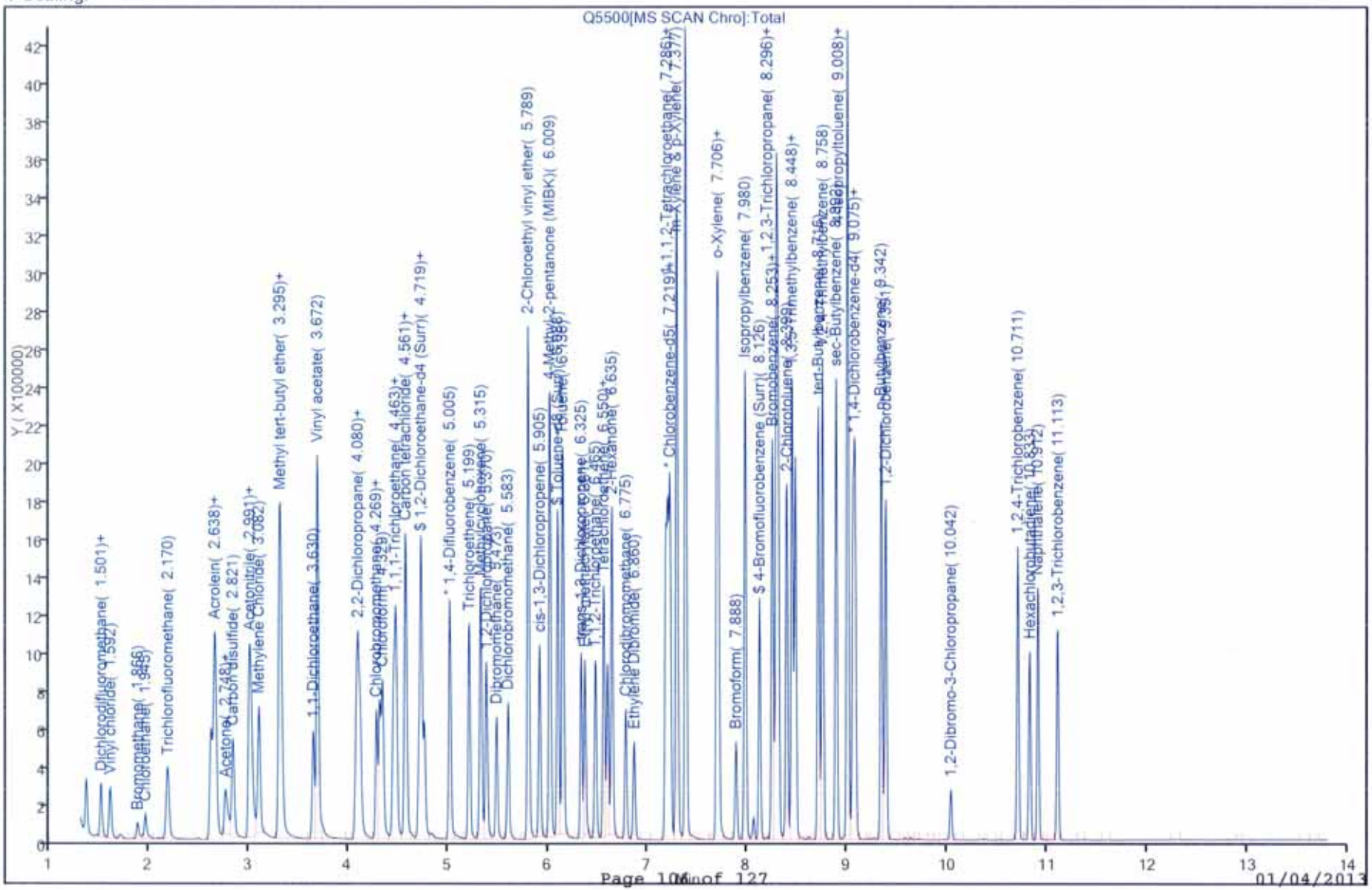
Report Date: 02-Jan-2013 23:34:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5500.D

Injection Date:	02-Jan-2013 22:16:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	2
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



01/04/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3884.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	09-Nov-2012 15:32:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0016505-001		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	89987	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q-8260.m		
Last Update:	09-Nov-2012 15:41:12	Calib Date:	05-Nov-2012 16:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121105-16358.b\Q3783.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK004		
First Level Reviewer: BrandtT		Date:	09-Nov-2012 15:41:12

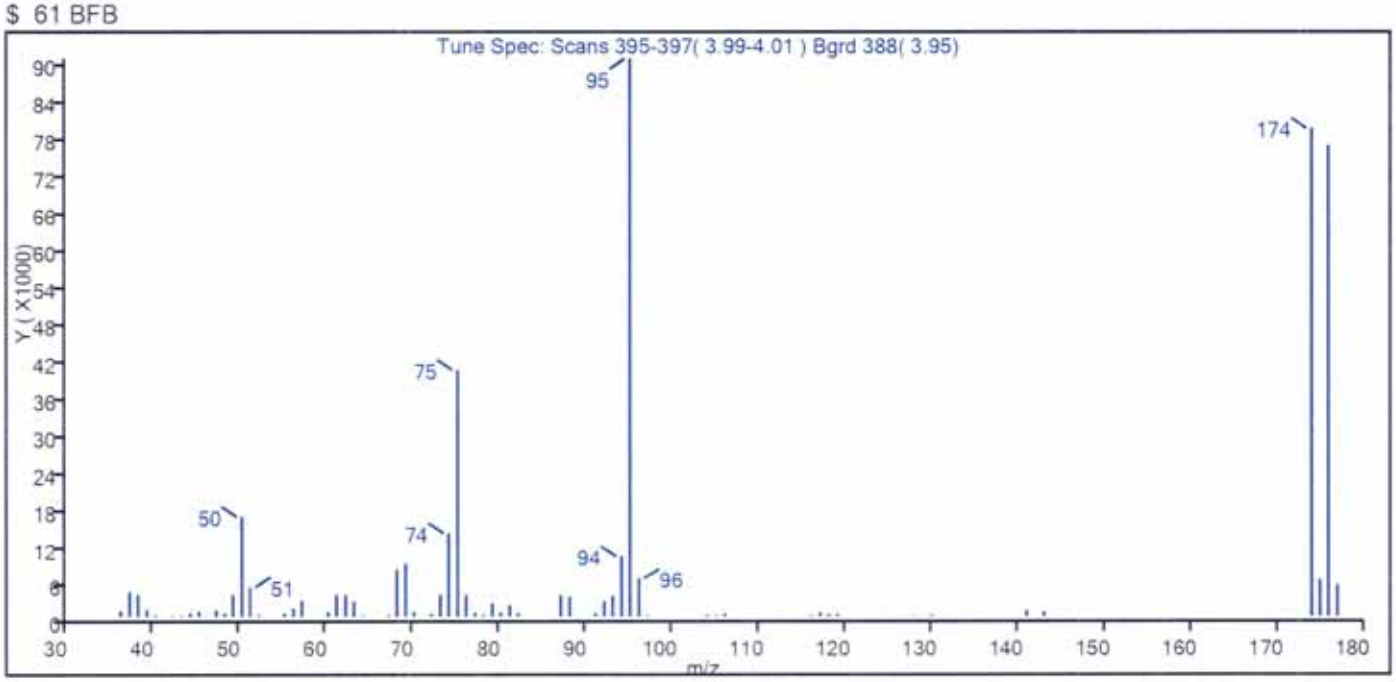
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 61 BFB	95	3.999	3.999	0.0	0	197580	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3884.D		
Injection Date:	09-Nov-2012 15:32:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	89987	Lims Sample ID:	1
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.06
75	30.00 - 60.00% of mass 95	44.27
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.54
175	5.00 - 9.00% of mass 174	6.53 (7.47)
176	95.00 - 101.00% of mass 174	84.43 (96.45)
177	5.00 - 9.00% of mass 176	5.56 (6.58)

Data File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3884.D\Q-8260.rslt\spectra.d
Injection Date: 09-Nov-2012 15:32:30
Spectrum: Tune Spec: Scans 395-397(3.99-4.01) Bgrd 388(3.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	886	56.00	1357	77.00	643	105.00	124
37.00	4027	57.00	2606	78.00	175	106.00	435
38.00	3521	60.00	758	79.00	2172	116.00	131
39.00	1084	61.00	3547	80.00	601	117.00	632
40.00	193	62.00	3562	81.00	1910	118.00	285
42.00	121	63.00	2533	82.00	493	119.00	341
43.00	64	64.00	126	87.00	3445	128.00	142
44.00	545	67.00	185	88.00	3201	130.00	147
45.00	773	68.00	7753	91.00	557	141.00	935
47.00	1031	69.00	8701	92.00	2506	143.00	744
48.00	496	70.00	683	93.00	3267	174.00	79624
49.00	3520	72.00	403	94.00	9925	175.00	5944
50.00	16424	73.00	3486	95.00	90960	176.00	76800
51.00	4806	74.00	13715	96.00	6231	177.00	5054
52.00	152	75.00	40272	97.00	118		
55.00	499	76.00	3481	104.00	149		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5499.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	02-Jan-2013 21:50:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0017997-001		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	98090	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	02-Jan-2013 22:01:16	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK035		

First Level Reviewer: cwiklinc Date: 02-Jan-2013 22:01:15

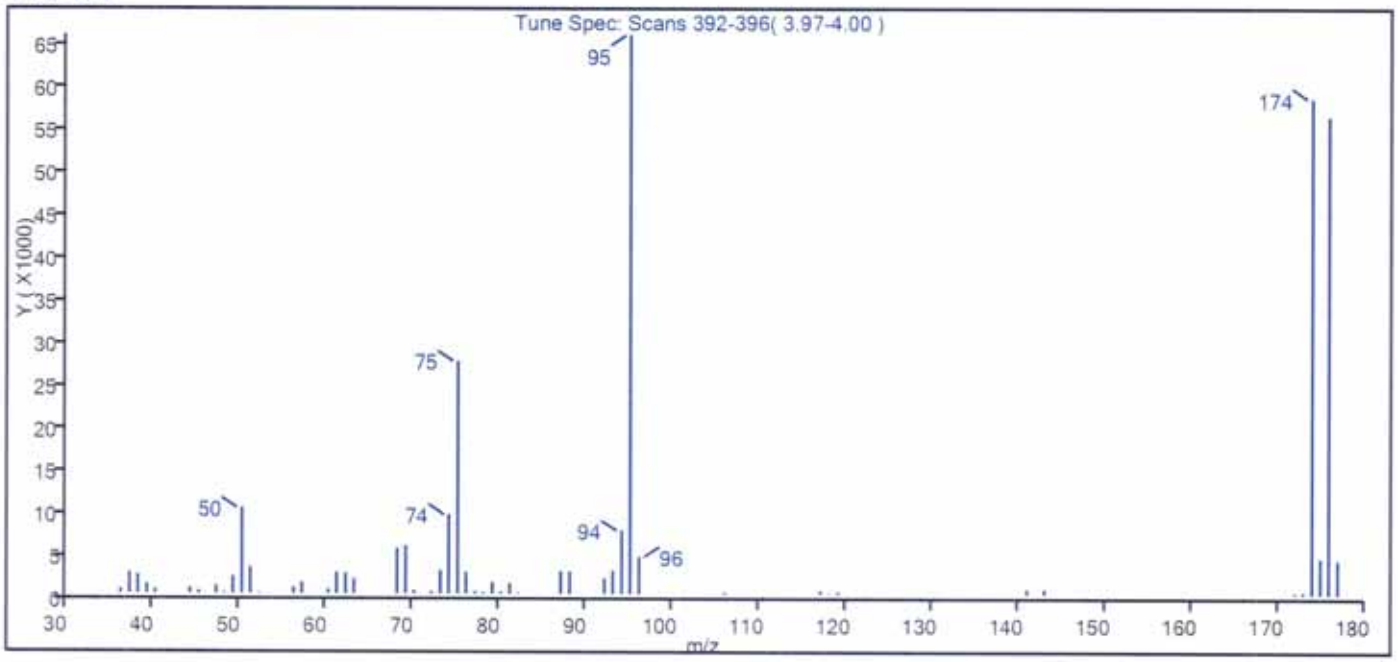
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 61 BFB	95	3.985	3.985	0.0	0	146781	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5499.D		
Injection Date:	02-Jan-2013 21:50:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	1
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.31
75	30.00 - 60.00% of mass 95	41.66
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.35 (0.39)
174	Greater than 50.00% of mass 95	88.75
175	5.00 - 9.00% of mass 174	6.41 (7.22)
176	95.00 - 101.00% of mass 174	85.46 (96.29)
177	5.00 - 9.00% of mass 176	6.01 (7.03)

Report Date: 02-Jan-2013 22:01:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5499.D\Q-8260.rslt\spectra.d
Injection Date: 02-Jan-2013 21:50:30
Spectrum: Tune Spec: Scans 392-396(3.97-4.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	467	56.00	690	76.00	2535	96.00	4292
37.00	2348	57.00	1270	77.00	252	106.00	160
38.00	2162	60.00	432	78.00	163	117.00	370
39.00	999	61.00	2424	79.00	1239	118.00	72
40.00	466	62.00	2399	80.00	203	119.00	191
44.00	576	63.00	1687	81.00	1185	141.00	546
45.00	298	68.00	5287	82.00	80	143.00	524
47.00	858	69.00	5551	87.00	2609	172.00	159
48.00	93	70.00	358	88.00	2580	173.00	225
49.00	1980	72.00	179	92.00	1758	174.00	57816
50.00	9971	73.00	2681	93.00	2703	175.00	4177
51.00	3010	74.00	9229	94.00	7345	176.00	55672
52.00	90	75.00	27136	95.00	65144	177.00	3915

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-98090/4

Matrix: Water Lab File ID: Q5502.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 01/02/2013 23:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98090 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-98090/4

Matrix: Water | Lab File ID: Q5502.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/02/2013 23:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.89
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5502.D		
Lims ID:	MB	Client ID:	
Inject. Date:	02-Jan-2013 23:18:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	480-0017997-004		
Operator:	CDC	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	98090	Lims Sample ID:	4
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m		
Last Update:	02-Jan-2013 23:35:07	Calib Date:	09-Nov-2012 18:41:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK035		
First Level Reviewer: cwiklinc		Date:	02-Jan-2013 23:35:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.010	5.005	0.005	93	944211	25.0	
* 2 Chlorobenzene-d5	82	7.200	7.201	-0.001	81	410598	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	93	423258	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.700	4.694	0.006	89	140555	21.4	
$ 5 Toluene-d8 (Surr)	98	6.087	6.088	-0.001	83	1038515	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.126	-0.001	94	334211	22.0	
10 Dichlorodifluoromethane	85		1.349					
12 Chloromethane	50		1.495					
13 Vinyl chloride	62		1.592					
11 Chlorodifluoromethane	51		1.687					
14 Bromomethane	94		1.866					9
15 Chloroethane	64		1.945					9
17 Trichlorofluoromethane	101		2.164					
16 Dichlorofluoromethane	67		2.431					
18 Ethyl ether	59		2.461					
20 Acrolein	56		2.602					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.638					
22 1,1-Dichloroethene	96		2.644					
19 Propene oxide	58		2.741					
23 Acetone	43		2.748					
25 Iodomethane	142		2.778					9
26 Carbon disulfide	76		2.821					
24 Isopropyl alcohol	45		2.925					
29 Acetonitrile	40		2.991					
27 Methyl acetate	43		3.009					
28 3-Chloro-1-propene	41		3.053					
30 Methylene Chloride	84		3.082					
31 2-Methyl-2-propanol	59		3.283					
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.289					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
33 Acrylonitrile	53		3.307					
35 Hexane	57		3.477					
36 Isopropyl ether	45		3.571					
39 1,1-Dichloroethane	63		3.630					
40 2-Chloro-1,3-butadiene	53		3.638					
37 Vinyl acetate	43		3.672					
38 1,1-Dimethoxyethane	75		3.721					
41 Tert-butyl ethyl ether	59		3.802					
46 Propionitrile	54		4.016					
44 2,2-Dichloropropane	77		4.068					
45 cis-1,2-Dichloroethene	96		4.086					9
42 Ethyl acetate	43		4.104					
43 2-Butanone (MEK)	43		4.104					
47 Methacrylonitrile	41		4.107					
48 Chlorobromomethane	128		4.269					
49 Tetrahydrofuran	42		4.299					
50 Chloroform	83		4.329					9
51 1,1,1-Trichloroethane	97		4.445					
53 Isobutyl alcohol	43		4.463					
52 Cyclohexane	56		4.463					
56 Tert-amyl methyl ether	73		4.546					
55 Carbon tetrachloride	117		4.561					
54 1,1-Dichloropropene	75		4.561					9
59 n-Heptane	43		4.619					
57 Benzene	78		4.719					9
58 1,2-Dichloroethane	62		4.755					
60 n-Butanol	56		4.822					9
66 1,4-Dioxane	88		5.004					9
62 Trichloroethene	95		5.199					
63 Methyl methacrylate	41		5.308					
64 Methylcyclohexane	83		5.315					
65 1,2-Dichloropropane	63		5.370					
70 2-Nitropropane	43		5.430					
67 Dibromomethane	93		5.473					
71 Epichlorohydrin	57		5.534					
68 Dichlorobromomethane	83		5.583					
69 2-Chloroethyl vinyl ether	63		5.789					
72 cis-1,3-Dichloropropene	75		5.905					
76 2-Methylthiophene	97		5.918					
78 3-Methylthiophene	97		5.934					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					9
74 Toluene	92		6.136					
77 trans-1,3-Dichloropropene	75		6.325					
75 Ethyl methacrylate	69		6.361					
79 1,1,2-Trichloroethane	83		6.465					
81 Tetrachloroethene	166		6.550					
82 1,3-Dichloropropane	76		6.593					
80 2-Hexanone	43		6.635					
83 Chlorodibromomethane	129		6.775					
85 3-Chlorobenzotrifluoride	180		6.796					
86 4-Chlorobenzotrifluoride	180		6.838					
84 Ethylene Dibromide	107		6.860					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 Chlorobenzene	112		7.219					9
89 1,1,1,2-Tetrachloroethane	131		7.286					
88 Ethylbenzene	91		7.292					
90 m-Xylene & p-Xylene	106		7.377					
93 2-Chlorobenzotrifluoride	180		7.527					
91 o-Xylene	106		7.700					9
92 Styrene	104		7.712					9
96 Cyclohexanone	55		7.735					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.980					9
104 3-Chlorotoluene	126		8.082					
101 Bromobenzene	156		8.247					
97 1,1,2,2-Tetrachloroethane	83		8.253					
108 Pentachloroethane	167		8.265					
100 1,2,3-Trichloropropane	110		8.290					
98 trans-1,4-Dichloro-2-butene	53		8.296					
99 N-Propylbenzene	91		8.314					
103 2-Chlorotoluene	126		8.399					9
102 1,3,5-Trimethylbenzene	105		8.448					
105 4-Chlorotoluene	126		8.484					9
114 Dicyclopentadiene	66		8.715					
106 tert-Butylbenzene	134		8.716					
107 1,2,4-Trimethylbenzene	105		8.758					
109 sec-Butylbenzene	105		8.892					9
112 1,2,3-Trimethylbenzene	105		9.007					9
111 1,3-Dichlorobenzene	146		9.008					9
110 4-Isopropyltoluene	119		9.008					
113 1,4-Dichlorobenzene	146		9.081					9
115 n-Butylbenzene	91		9.342					9
116 1,2-Dichlorobenzene	146		9.391					
118 1,3,5-Trichlorobenzene	180		9.850					
117 1,2-Dibromo-3-Chloropropane	75		10.042					
119 1,2,4-Trichlorobenzene	180		10.711					9
120 Hexachlorobutadiene	225		10.833					9
121 Naphthalene	128		10.918					9
122 1,2,3-Trichlorobenzene	180		11.113					9
S 123 Total BTEX	1		30.000					7
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
T 127 Ethanol TIC	45		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 7 Ethylene oxide	44		1.872					

QC Flag Legend

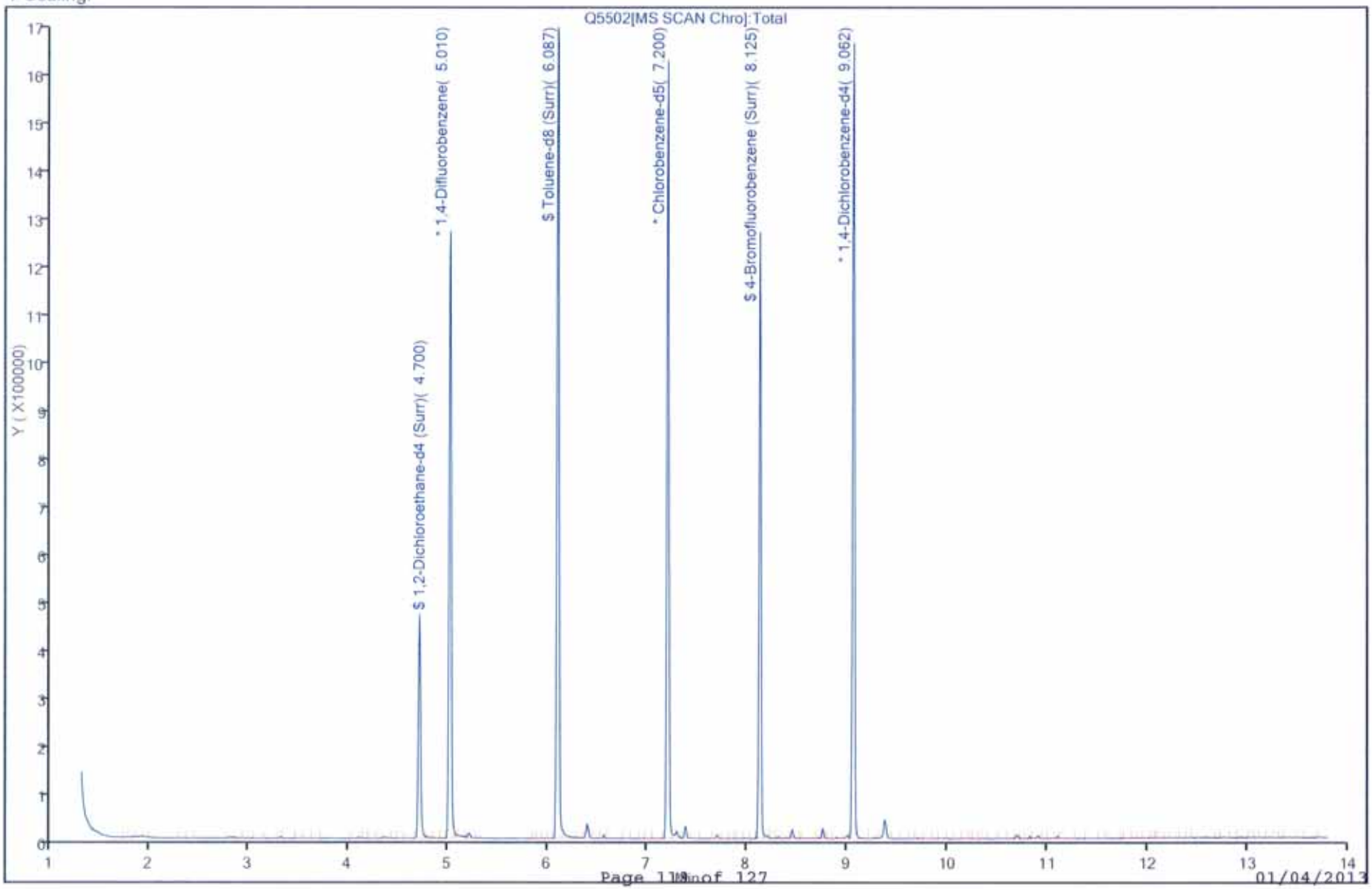
Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 02-Jan-2013 23:35:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5502.D		
Injection Date:	02-Jan-2013 23:18:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	4
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30724-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-98090/3

Matrix: Water | Lab File ID: Q5501.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/02/2013 22:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98090 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	23.9		1.0	0.38
75-35-4	1,1-Dichloroethene	21.6		1.0	0.29
95-50-1	1,2-Dichlorobenzene	27.4		1.0	0.79
107-06-2	1,2-Dichloroethane	23.0		1.0	0.21
540-59-0	1,2-Dichloroethene, Total	49.7		2.0	0.70
71-43-2	Benzene	24.9		1.0	0.41
108-90-7	Chlorobenzene	26.3		1.0	0.75
156-59-2	cis-1,2-Dichloroethene	24.7		1.0	0.81
100-41-4	Ethylbenzene	25.7		1.0	0.74
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
127-18-4	Tetrachloroethene	25.5		1.0	0.36
108-88-3	Toluene	25.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.0		1.0	0.90
79-01-6	Trichloroethene	24.9		1.0	0.46
1330-20-7	Xylenes, Total	74.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5501.D
Lims ID: LCS
Client ID:
Inject. Date: 02-Jan-2013 22:51:30
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.: 480-0017997-003
Operator: CDC
Instrument ID: HP5973Q
Purge Vol: 5.000 mL
ALS Bottle#: 2
Lims Batch ID: 98090
Lims Sample ID: 3
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q-8260.m
Last Update: 02-Jan-2013 23:34:20
Calib Date: 09-Nov-2012 18:41:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20121109-16505.b\Q3891.D
Limit Group: MV - 8260B ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: ZB-624
Column Dia: 0.25 mm
Process Host: XAWRK035

First Level Reviewer: cwiklinc
Date: 02-Jan-2013 23:34:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.008	5.005	0.003	93	952168	25.0	
* 2 Chlorobenzene-d5	82	7.198	7.201	-0.003	82	417207	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.062	-0.003	93	418765	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.698	4.694	0.004	90	138922	21.0	
$ 5 Toluene-d8 (Surr)	98	6.091	6.088	0.003	83	1049989	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.129	8.126	0.003	96	337080	21.8	
22 1,1-Dichloroethene	96	2.653	2.644	0.009	89	234342	21.6	
32 Methyl tert-butyl ether	73	3.292	3.289	0.003	88	870930	23.5	
34 trans-1,2-Dichloroethene	96	3.298	3.289	0.009	94	315675	25.0	
39 1,1-Dichloroethane	63	3.639	3.630	0.009	85	527154	23.9	
45 cis-1,2-Dichloroethene	96	4.089	4.086	0.003	78	350200	24.7	
57 Benzene	78	4.722	4.719	0.003	95	1233652	24.9	
58 1,2-Dichloroethane	62	4.752	4.755	-0.003	88	381507	23.0	
62 Trichloroethene	95	5.196	5.199	-0.003	95	321952	24.9	
74 Toluene	92	6.139	6.136	0.003	93	810623	25.6	
81 Tetrachloroethene	166	6.553	6.550	0.003	92	372914	25.5	
87 Chlorobenzene	112	7.222	7.219	0.003	97	958816	26.3	
88 Ethylbenzene	91	7.289	7.292	-0.003	97	1495424	25.7	
90 m-Xylene & p-Xylene	106	7.380	7.377	0.003	96	1211559	50.0	
91 o-Xylene	106	7.697	7.700	-0.003	95	596874	24.6	
107 1,2,4-Trimethylbenzene	105	8.755	8.758	-0.003	96	1270825	27.0	
116 1,2-Dichlorobenzene	146	9.388	9.391	-0.003	98	724682	27.4	
S 124 Xylenes, Total	1				0		74.6	
S 125 1,2-Dichloroethene, Total	1				0		49.7	

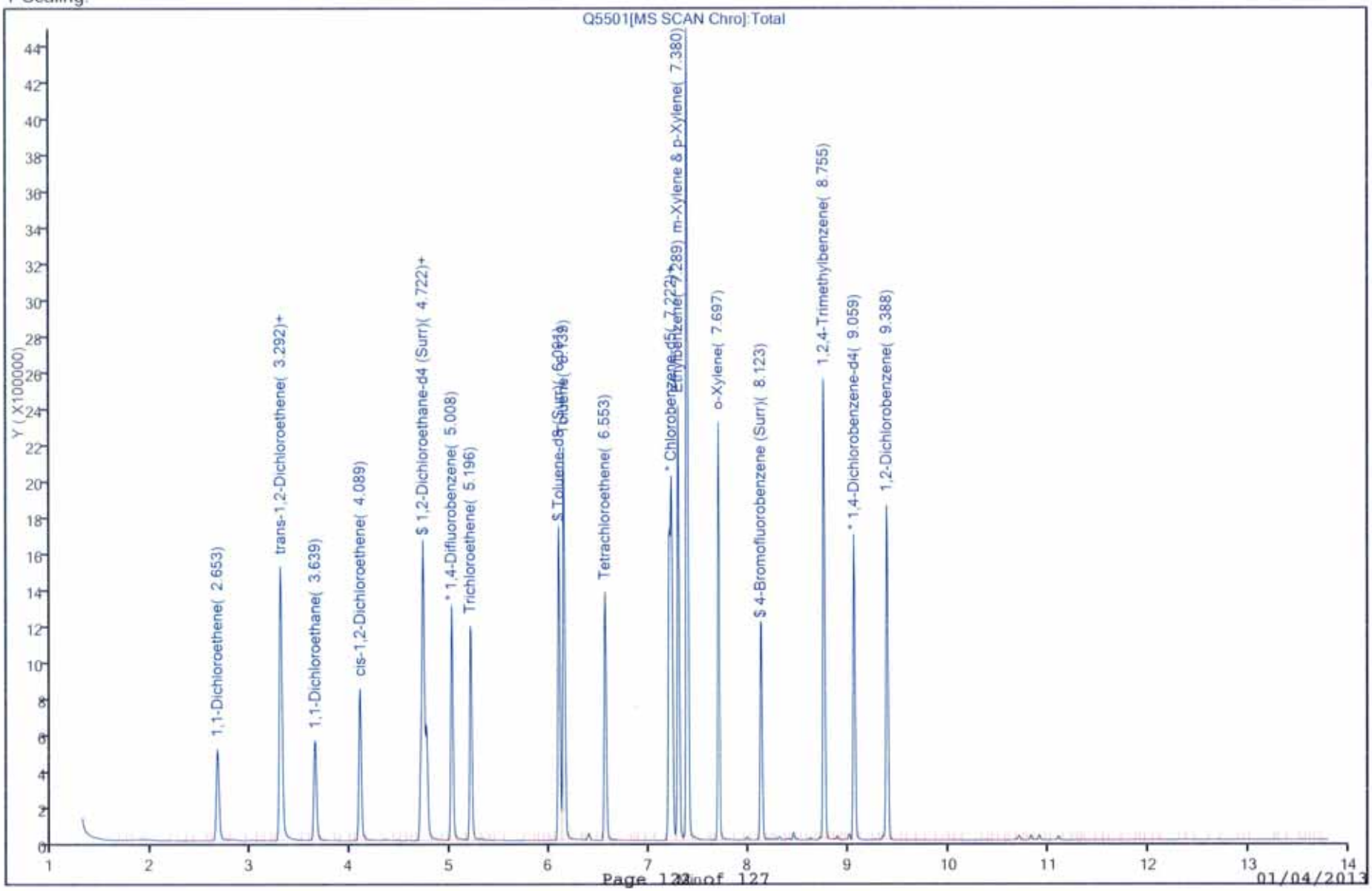
Report Date: 02-Jan-2013 23:34:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130102-17997.b\Q5501.D

Injection Date:	02-Jan-2013 22:51:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	98090	Lims Sample ID:	3
Operator ID:	CDC	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Instrument ID: HP5973Q Start Date: 11/09/2012 15:32

Analysis Batch Number: 89987 End Date: 11/09/2012 20:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-89987/1		11/09/2012 15:32	1	Q3884.D	ZB-624 (60) 0.25(mm)
IC 480-89987/3		11/09/2012 16:23	1	Q3886.D	ZB-624 (60) 0.25(mm)
IC 480-89987/4		11/09/2012 16:51	1	Q3887.D	ZB-624 (60) 0.25(mm)
IC 480-89987/5		11/09/2012 17:18	1	Q3888.D	ZB-624 (60) 0.25(mm)
ICIS 480-89987/6		11/09/2012 17:46	1	Q3889.D	ZB-624 (60) 0.25(mm)
IC 480-89987/7		11/09/2012 18:13	1	Q3890.D	ZB-624 (60) 0.25(mm)
IC 480-89987/8		11/09/2012 18:41	1	Q3891.D	ZB-624 (60) 0.25(mm)
MDLV 480-89987/11		11/09/2012 20:04	1		ZB-624 (60) 0.25(mm)
ICV 480-89987/12		11/09/2012 20:32	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30724-1

SDG No.:

Instrument ID: HP5973Q Start Date: 01/02/2013 21:50

Analysis Batch Number: 98090 End Date: 01/03/2013 08:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-98090/1		01/02/2013 21:50	1	Q5499.D	ZB-624 (60) 0.25(mm)
CCVIS 480-98090/2		01/02/2013 22:16	1	Q5500.D	ZB-624 (60) 0.25(mm)
LCS 480-98090/3		01/02/2013 22:51	1	Q5501.D	ZB-624 (60) 0.25(mm)
MB 480-98090/4		01/02/2013 23:18	1	Q5502.D	ZB-624 (60) 0.25(mm)
480-30724-1	MW-06S-12/12	01/02/2013 23:51	200	Q5503.D	ZB-624 (60) 0.25(mm)
480-30724-2	MW-06D-12/12	01/03/2013 00:19	200	Q5504.D	ZB-624 (60) 0.25(mm)
480-30724-3	MW-07S-12/12	01/03/2013 00:46	1	Q5505.D	ZB-624 (60) 0.25(mm)
480-30724-4	MW-07D-12/12	01/03/2013 01:14	1	Q5506.D	ZB-624 (60) 0.25(mm)
480-30724-5	TRIP BLANK	01/03/2013 01:41	1	Q5507.D	ZB-624 (60) 0.25(mm)
ZZZZZ		01/03/2013 02:09	5		ZB-624 (60) 0.25(mm)
ZZZZZ		01/03/2013 02:36	5		ZB-624 (60) 0.25(mm)
ZZZZZ		01/03/2013 03:04	4		ZB-624 (60) 0.25(mm)
ZZZZZ		01/03/2013 03:31	5		ZB-624 (60) 0.25(mm)
ZZZZZ		01/03/2013 08:54	10		ZB-624 (60) 0.25(mm)

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

URS

PROJECT NO: 11176632.00000 | SITE NAME: Dowell Walden Ave.

SAMPLERS (PRINT/SIGNATURE): John Boyd

LAB: TEST AMERICA | COOLER: 1 of 1 | PAGE: 1 of 1

DELIVERY SERVICE: Drop off | AIRBILL NO.:

TESTS: TCL VOCs

BOTTLE TYPE AND PRESERVATIVE: 40 mL

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. (IRPIMS ONLY)
MW-06S	12/21/12	1125	GRAB	MW-06S-12/12	WG	3	3	N			
MW-06D		1225		MW-06D-12/12		3	3	N			
MW-07S		1335		MW-07S-12/12		3	3	N			
MW-07D		1435		MW-07D-12/12		3	3	N			
		—		TRIP BLANK		1	1	TB			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# TRIP BLANK; ~~SD# MATRIX SPIKE DUPLICATE~~; RB# RINSE BLANK; ~~FR# FIELD REPLICATE~~; N# NORMAL ENVIRONMENTAL SAMPLE; MS# MATRIX SPIKE; (# SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
John Boyd	12/21/12	1653	THB	12/21/12	1653
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				12/21/12	

~~SPECIAL INSTRUCTIONS~~: Standard TAT. Send results to John Boyd, URS Corp. Melissa Deyo LAB PM.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

3/12

Page 126 of 127

01/04/2013

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 480-30724-1

Login Number: 30724

List Number: 1

Creator: Janish, Carl

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	urs
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



April 2013
Groundwater Sampling Report
for the
Former Dowell Facility
3311 Walden Avenue
Depew, New York

prepared for:

Volunteers
Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

May 2013

G3957RS

APRIL 2013 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

VOLUNTEERS
DOWELL, A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
DOWELL SCHLUMBERGER INCORPORATED
THE DOW CHEMICAL COMPANY
(VCA INDEX NO. B9-0586-00-10)

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NEW YORK 14203

May 2013

TABLE OF CONTENTS

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2.0 GROUNDWATER SAMPLING AND ANALYSIS 2-1

2.1 Groundwater Sampling Procedures 2-1
2.2 Analytical Results 2-1
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1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of H_2O_2/$Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the H_2O_2/$Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the H_2O_2/$Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the April 2013 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

As required by the SMP, URS collected groundwater samples from monitoring wells MW-06S, MW-06D, MW-07S and MW-07D on April 9, 2013 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06S: Chloroethane at 460 µg/L, 1,1-DCA at 9,500 µg/L and 1,1,1-TCA at 260 µg/L.
- Three VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-06D: Chloroethane at 600 µg/L, 1,1-DCA at 15,000 µg/L and 1,1,1-TCA at an estimated concentration of 180 µg/L.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07S.
- No VOCs were present at concentrations that exceeded the SCGs at monitoring well MW-07D.

It should be noted that the attached laboratory report in Appendix C shows 2-Butanone (MEK) detected in wells MW-06S and MW-06D, at estimated concentrations of 280 µg/L and 270 µg/L respectively, both exceeding the NYSDEC TOGS SCG of 50 µg/L. 2-Butanone is not a contaminant of concern, as documented in the SMP; however, it is a known lab contaminant. URS looked at supplemental information provided by the laboratory and determined that 2-butanone is not present in the sample, based the identification criteria (spectra). 2-Butanone in samples (MW-06D and MW-06S) did not meet the requirements for a positive identification. Rather than reject or qualify JN (tentative identification), URS qualified the results non-detect (U) at the reporting limit (RL) because the 2-butanone detections for these two (2) samples were barely above the method detection limit (MDL).

2.2.2 Comparison with Previous Results

The results of the URS analysis have been compared with the results from the September 2011 groundwater sampling event. This comparison indicated the following:

- Monitoring Well MW-06S – The concentration of Chloroethane decreased from 720 µg/L in December 2012 to 460 µg/L. The concentration of 1,1-DCA decreased from 13,000 µg/L in December 2012 to 9,500 µg/L. The concentration of 1,1,1-TCA decreased from 300 µg/L in December 2012 to 260 µg/L. These concentrations are

within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA.

- Monitoring Well MW-06D – The concentration of Chloroethane decreased from 750 µg/L in December 2012 to 600 µg/L. The concentration of 1,1-DCA remained constant from 15,000 µg/L in December 2012 to 15,000 to µg/L. The concentration of 1,1,1-TCA decreased from 240 µg/L in December 2012 to 180 µg/L. These concentrations are within the historic range of concentrations observed since March 2005
- Monitoring Well MW-07S - No VOCs were present above detection limits in the groundwater samples collected in April 2013.
- Monitoring Well MW-07D - No VOCs were present above detection limits in the groundwater samples collected in April 2013.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the Site are essentially the same as observed during previous sampling events. Flow is still generally from southeast to northwest and northeast.

- Groundwater elevations throughout the soil removal area are at approximately 100.63 feet. This indicates that the excavation area is still acting as a "bathtub", with groundwater levels at essentially the same elevation throughout.
- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.
- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the Site is still from the southeast.
- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation, groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).
- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

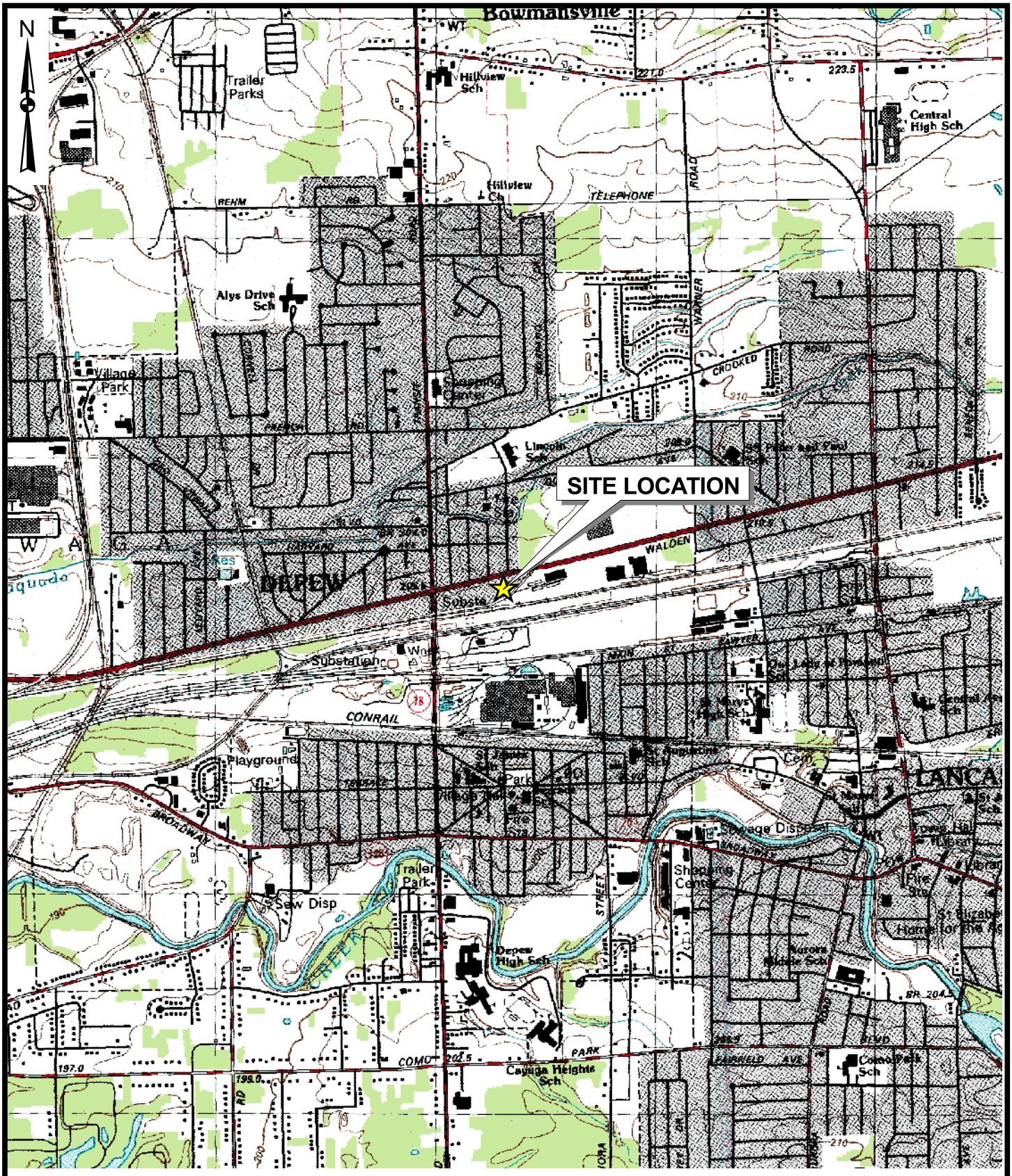
The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to April 2013.

3.2 Recommendations

The April 9, 2013 monitoring event is the fifth quarterly event since the issuance of the Certificate of Completion in December 2011. Based on the above discussions, it is recommended that:

- The SMP states that "beginning after the Certificate of Completion is issued by the NYSDEC, quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for six quarters for MW-6S/D and MW-7S/D. The remaining wells (i.e. MW-01, MW-02 and MW-04) will be sampled annually (spring). The frequency thereafter will be determined in conjunction with the NYSDEC and NYSDOH".

- Quarterly groundwater sampling and site inspections should continue until six quarters of sampling have been conducted. At that time, groundwater sampling frequency and duration will be evaluated and discussed with the NYSDEC.



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

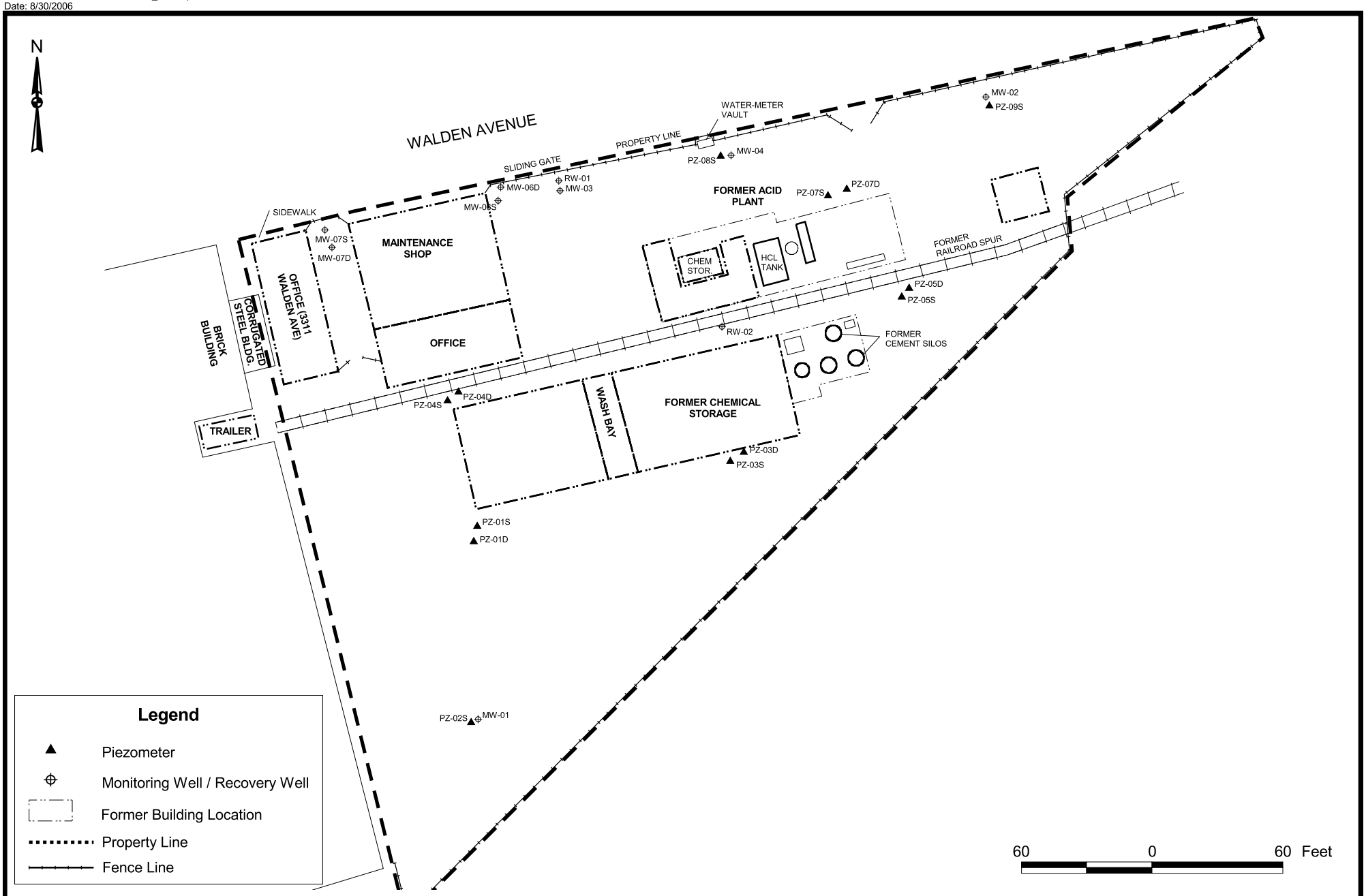
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

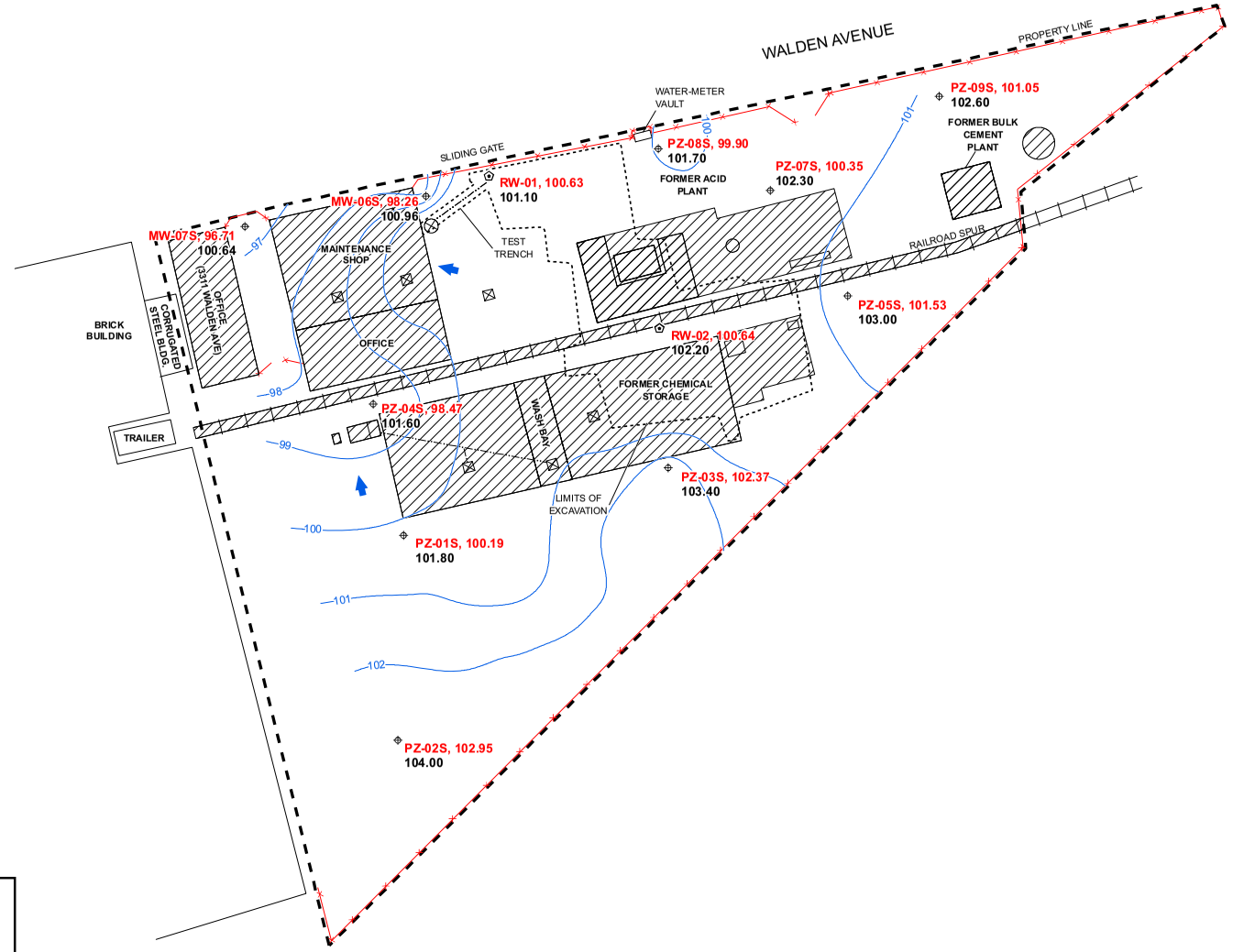
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006



URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2



FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(APRIL 9, 2013)

URS

FIGURE 2-1

N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 040913.mxd 5/14/2013 MDL

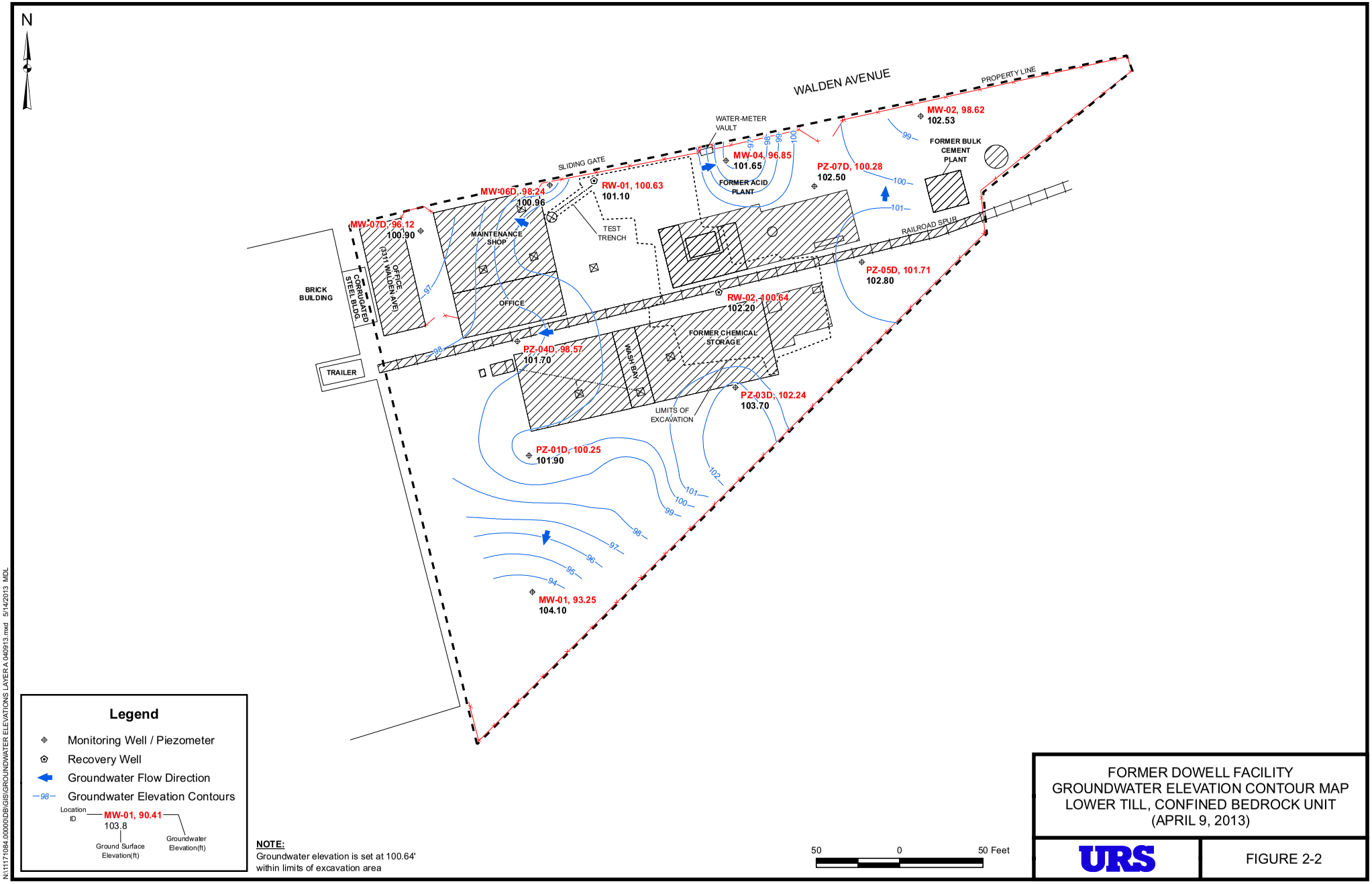

N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
MW-02, 98.62
102.53
MW-04, 96.85
101.65
FORMER BULK CEMENT PLANT
FORMER ACID PLANT
PZ-07D, 100.28
102.50
RW-01, 100.63
101.10
MW-06D, 98.24
100.96
MW-07D, 96.12
100.90
TEST TRENCH
MAINTENANCE SHOP
RAILROAD SPUR
BRICK BUILDING
CORRUGATED STEEL BLDG.
OFFICE (3311 WALDEN AVE)
OFFICE
PZ-05D, 101.71
102.80
RW-02, 100.64
102.20
FORMER CHEMICAL STORAGE
PZ-04D, 98.57
101.70
WASH BAY
TRAILER
PZ-03D, 102.24
103.70
LIMITS OF EXCAVATION
PZ-01D, 100.25
101.90
MW-01, 93.25
104.10
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
Groundwater Elevation Contours
Location ID
MW-01, 90.41
103.8
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 100.64' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(APRIL 9, 2013)
URS
FIGURE 2-2
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 040913.mxd 5/14/2013 MDL

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	NS	NS
Vinyl Chloride	UG/L	NS	NS	NS
Methylene Chloride	UG/L	NS	NS	NS
Acetone	UG/L	NS	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	NS
Total VOCs	UG/L	NS	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Vinyl Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Methylene Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Acetone	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Total VOCs	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	NS	NS
Vinyl Chloride	UG/L	NS	NS	NS
Methylene Chloride	UG/L	NS	NS	NS
Acetone	UG/L	NS	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	NS
Total VOCs	UG/L	NS	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	120 J	150	430	220	720
Vinyl Chloride	UG/L	U	U	U	U	3.1	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79	50 J	100 J	U
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500	12,000	7,900	13,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250	390	390	300
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U	U	U	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979	12,870	8610	14,020

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Apr-13
Chloroethane	UG/L	460
Vinyl Chloride	UG/L	U
Methylene Chloride	UG/L	U
Acetone	UG/L	U
1,1-Dichloroethene	UG/L	U
1,1-Dichloroethane	UG/L	9,500
1,2-Dichloroethene (total)	UG/L	U
1,2-Dichloroethane	UG/L	U
1,1,1-Trichloroethane	UG/L	260
Total VOCs	UG/L	U
Methyl tert-butyl ether	UG/L	U
Total VOCs	UG/L	10,220

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	280	260	450	470	750
Vinyl Chloride	UG/L	U	U	U	U	6	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U	U	U	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000	16,000	18,000	15,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220	300	320	240
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U	U	U	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480	16,750	18,790	15,990

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Apr-13
Chloroethane	UG/L	600
Vinyl Chloride	UG/L	U
Methylene Chloride	UG/L	U
Acetone	UG/L	U
1,1-Dichloroethene	UG/L	U
1,1-Dichloroethane	UG/L	15,000
1,2-Dichloroethene (total)	UG/L	U
1,2-Dichloroethane	UG/L	U
1,1,1-Trichloroethane	UG/L	180 J
Methyl tert-butyl ether	UG/L	U
Total VOCs	UG/L	15,780

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	U	U	U
Vinyl Chloride	UG/L	U	U	U
Methylene Chloride	UG/L	U	U	U
Acetone	UG/L	U	U	U
1,1-Dichloroethene	UG/L	U	U	U
1,1-Dichloroethane	UG/L	1	1.3	1.2
1,2-Dichloroethene (total)	UG/L	U	U	U
1,2-Dichloroethane	UG/L	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U
Total VOCs	UG/L	1	1.3	1.2

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL

NS = not sampled
NI = Not Installed
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U	U	U	U	U
Acetone	UG/L	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U	U	U	U	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	NS	NS
Vinyl Chloride	UG/L	NS	NS	NS
Methylene Chloride	UG/L	NS	NS	NS
Acetone	UG/L	NS	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	NS
Cyclohexane	UG/L	NS	NS	NS
Methylcyclohexane	UG/L	NS	NS	NS
1,2-Dichlorobenzene	UG/L	NS	NS	NS
Total VOCs	UG/L	NS	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
								7/5/2012 0000	12.35	91.45	0.00	91.45	
								9/26/2012 1205	13.28	90.52	0.00	90.52	
								12/20/2012 1538	10.66	93.14	0.00	93.14	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								4/9/2013 0833	10.55	93.25	0.00	93.25	
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1						
								7/16/2001 0000	4.15	98.10	0.00	98.10	
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	
								7/5/2012 0000	5.41	96.84	0.00	96.84	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/26/2012 1129	4.52	97.73	0.00	97.73	
								12/20/2012 1528	3.96	98.29	0.00	98.29	
								4/9/2013 0824	3.63	98.62	0.00	98.62	
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1	7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1	7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	
								9/15/2009 0000	7.19	94.06	0.00	94.06	
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	
								7/5/2012 0000	5.94	95.31	0.00	95.31	
								9/26/2012 1145	5.32	95.93	0.00	95.93	
								12/20/2012 1604	4.74	96.51	0.00	96.51	
								4/9/2013 0812	4.40	96.85	0.00	96.85	
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	
								6/16/2009 0000	5.62	94.76	0.00	94.76	
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	
								7/5/2012 0000	1.54	98.84	0.00	98.84	
								9/26/2012 1243	3.56	96.82	0.00	96.82	
								12/20/2012 1553	1.62	98.76	0.00	98.76	
								4/9/2013 0850	2.14	98.24	0.00	98.24	
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1						
								7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	
								7/5/2012 0000	2.29	98.09	0.00	98.09	
								9/26/2012 1247	3.45	96.93	0.00	96.93	
								12/20/2012 1557	2.52	97.86	0.00	97.86	
								4/9/2013 0852	2.12	98.26	0.00	98.26	
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1						
								11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	
								2/28/2012 0000	9.28	90.99	0.00	90.99	
								7/5/2012 0000	5.61	94.66	0.00	94.66	
								9/26/2012 1233	6.67	93.60	0.00	93.60	
								12/20/2012 1549	4.02	96.25	0.00	96.25	
								4/9/2013 0845	4.15	96.12	0.00	96.12	
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	
								2/28/2012 0000	5.64	94.46	0.00	94.46	
								7/5/2012 0000	4.15	95.95	0.00	95.95	
								9/26/2012 1229	5.92	94.18	0.00	94.18	
								12/20/2012 1547	3.38	96.72	0.00	96.72	
								4/9/2013 0847	3.39	96.71	0.00	96.71	
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1						
								7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1						
								11/3/2005 1117	12.93	92.28	0.00	92.28	
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
								7/5/2012 0000	7.22	97.99	0.00	97.99	
								9/26/2012 1211	6.65	98.56	0.00	98.56	
								12/20/2012 1539	3.85	101.36	0.00	101.36	
								4/9/2013 0837	4.96	100.25	0.00	100.25	
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	
								6/14/2006 0000	4.71	100.26	0.00	100.26	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	
								2/28/2012 0000	3.63	101.34	0.00	101.34	
								7/5/2012 0000	7.02	97.95	0.00	97.95	
								9/26/2012 1213	6.43	98.54	0.00	98.54	
								12/20/2012 1540	3.81	101.16	0.00	101.16	
								4/9/2013 0838	4.78	100.19	0.00	100.19	
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1	11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
								7/5/2012 0000	7.63	100.23	0.00	100.23	
								9/26/2012 1203	7.83	100.03	0.00	100.03	
								12/20/2012 1536	4.34	103.52	0.00	103.52	
								4/9/2013 0835	4.91	102.95	0.00	102.95	
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1	11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
								7/5/2012 0000	5.46	100.27	0.00	100.27	
								9/26/2012 1258	4.85	100.88	0.00	100.88	
								12/20/2012 1534	3.13	102.60	0.00	102.60	
								4/9/2013 0830	3.49	102.24	0.00	102.24	
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1						
								11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	
								7/5/2012 0000	6.11	100.21	0.00	100.21	
								9/26/2012 1256	5.31	101.01	0.00	101.01	
								12/20/2012 1533	3.61	102.71	0.00	102.71	
								4/9/2013 0831	3.95	102.37	0.00	102.37	
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1	11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
								7/5/2012 0000	7.61	97.19	0.00	97.19	
								9/26/2012 1218	8.09	96.71	0.00	96.71	
								12/20/2012 1541	5.71	99.09	0.00	99.09	
								4/9/2013 0840	6.23	98.57	0.00	98.57	
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
								7/5/2012 0000	7.59	97.08	0.00	97.08	
								9/26/2012 1220	8.35	96.32	0.00	96.32	
								12/20/2012 1542	5.74	98.93	0.00	98.93	
								4/9/2013 0842	6.20	98.47	0.00	98.47	
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
								7/5/2012 0000	6.04	100.16	0.00	100.16	
								9/26/2012 1151	6.51	99.69	0.00	99.69	
								12/20/2012 1530	4.28	101.92	0.00	101.92	
								4/9/2013 0827	4.49	101.71	0.00	101.71	
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	
								12/8/2009 0000	3.28	102.15	0.00	102.15	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
								7/5/2012 0000	5.51	99.92	0.00	99.92	
								9/26/2012 1152	5.69	99.74	0.00	99.74	
								12/20/2012 1531	3.41	102.02	0.00	102.02	
								4/9/2013 0828	3.90	101.53	0.00	101.53	
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	4.74	100.36	0.00	100.36	
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
								7/5/2012 0000	5.89	99.21	0.00	99.21	
								9/26/2012 1133	5.34	99.76	0.00	99.76	
								12/20/2012 1514	4.43	100.67	0.00	100.67	
								4/9/2013 0818	4.82	100.28	0.00	100.28	
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	
								2/28/2012 0000	4.41	100.84	0.00	100.84	
								7/5/2012 0000	5.87	99.38	0.00	99.38	
								9/26/2012 1135	5.40	99.85	0.00	99.85	
								12/20/2012 1515	4.49	100.76	0.00	100.76	
								4/9/2013 0817	4.90	100.35	0.00	100.35	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1	11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	
								3/9/2006 0000	3.52	101.56	0.00	101.56	
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	
								7/5/2012 0000	6.27	98.81	0.00	98.81	
								9/26/2012 1139	6.37	98.71	0.00	98.71	
								12/20/2012 1513	5.13	99.95	0.00	99.95	
								4/9/2013 0815	5.18	99.90	0.00	99.90	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1	11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	
								3/13/2007 0000	4.64	101.74	0.00	101.74	
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
								7/5/2012 0000	7.42	98.96	0.00	98.96	
								9/26/2012 1121	7.64	98.74	0.00	98.74	
								12/20/2012 1517	4.91	101.47	0.00	101.47	
								4/9/2013 0826	5.33	101.05	0.00	101.05	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	
								12/11/2007 0000	3.02	100.88	0.00	100.88	
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
								7/5/2012 0000	NM	-	NM	-	Could Not Open

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/26/2012 1250	4.04	99.86	0.00	99.86	
								12/20/2012 1559	2.80	101.10	0.00	101.10	
								4/9/2013 0805	3.27	100.63	0.00	100.63	
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1	11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	
								2/28/2012 0000	3.39	101.33	0.00	101.33	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1253	4.83	99.89	0.00	99.89	
								12/20/2012 1532	3.57	101.15	0.00	101.15	
								4/9/2013 0807	4.08	100.64	0.00	100.64	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site, Walden Ave. **Well I.D.:** MW-06S

Date: 04/09/13 **Sampling Personnel:** Kevin J. McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 7.80 Depth to Well Bottom: 19.80 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 7.40 Estimated Purge Volume (liters): 7.50

Sample ID: MW-06S-04/13 Sample Time: 12:55 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
12:25	7.09	12.39	2.540	5.17	8.50	129	250	8.15
12:30	7.14	11.64	1.820	2.77	1.29	165	250	9.00
12:35	7.14	11.54	1.830	2.59	1.48	180	250	9.50
12:40	7.14	11.74	1.850	2.44	1.24	180	250	10.00
12:45	7.13	11.81	1.870	2.31	1.11	176	250	10.00
12:50	7.12	11.95	1.910	2.25	2.22	179	250	10.00
12:55	7.12	12.10	1.930	2.21	1.93	178	250	10.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 3/4-inch bolts.

NM = Not recorded.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 04/09/13 **Sampling Personnel:** Kevin J. McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 2.00 Depth to Well Bottom: 29.60 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 17.03 Estimated Purge Volume (liters): 9.00

Sample ID: MW-06D-04/13 Sample Time: 12:14 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:29	7.16	11.52	2.510	9.50	14.80	275	225	2.65
11:34	7.08	10.15	2.700	8.54	13.30	271	225	3.65
11:39	7.08	9.76	2.730	7.46	13.40	264	225	4.53
11:44	7.08	10.08	2.750	6.34	13.70	256	225	5.40
11:49	7.08	10.25	2.740	5.28	14.90	238	225	6.35
11:54	7.07	10.51	2.770	4.40	14.90	180	225	7.20
11:59	7.07	10.60	2.770	4.01	13.10	159	225	7.61
12:04	7.07	10.61	2.760	3.76	12.00	140	225	8.10
12:09	7.07	10.87	2.770	3.60	11.20	135	225	8.70
12:14	7.06	11.18	2.780	3.49	10.20	132	225	9.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 9/16-inch bolts. Both are stripped.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site, Walden Ave. **Well I.D.:** MW-07S

Date: 04/09/13 **Sampling Personnel:** Kevin J. McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.35 Depth to Well Bottom: 14.80 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 7.06 Estimated Purge Volume (liters): 8.50

Sample ID: MW-07S-04/13 Sample Time: 11:05 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
10:15	7.42	9.79	0.709	8.65	7.82	191	250	4.55
10:20	7.37	9.55	0.730	7.62	8.93	227	250	6.05
10:25	7.37	9.51	0.728	6.80	8.90	247	150	7.25
10:30	7.37	9.61	0.727	6.10	7.25	260	150	8.95
10:35	7.37	9.68	0.725	5.72	6.41	265	150	9.01
10:40	7.37	9.68	0.726	5.46	6.19	270	150	NM
10:45	7.37	9.73	0.725	5.07	5.66	274	150	NM
10:50	7.37	9.79	0.723	5.05	5.11	275	150	NM
10:55	7.38	9.83	0.725	4.39	5.00	281	150	NM
11:00	7.38	9.91	0.725	4.21	4.11	283	150	NM
11:05	7.39	9.85	0.725	4.15	4.01	285	150	NM
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07D.
3. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site, Walden Ave. **Well I.D.:** MW-07D

Date: 04/09/13 **Sampling Personnel:** Kevin J. McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 4.15 Depth to Well Bottom: 30.10 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing (liters): 16.01 Estimated Purge Volume (liters): 12.00

Sample ID: MW-07D-04/13 Sample Time: 9:59 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
9:19	6.81	10.61	0.622	5.43	NM	247	600	5.30
9:24	7.59	10.40	0.619	3.64	NM	181	600	10.30
9:29	7.68	9.90	0.615	3.13	NM	168	200	11.20
9:34	7.68	9.23	0.613	2.96	4.66	177	200	12.20
9:39	7.69	9.92	0.608	2.78	4.66	173	200	13.15
9:44	7.69	9.95	0.603	2.68	4.66	171	200	13.90
9:49	7.70	10.14	0.597	2.52	4.66	149	200	13.90
9:54	7.70	10.18	0.595	2.46	4.66	145	200	13.90
9:59	7.70	10.27	0.593	2.37	4.66	143	200	13.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

APPENDIX B

FIELD NOTES

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PROJECT Dowell - Walden Ave

Notebook No. _____
Continued From Page _____

4/9/13 TUESDAY
WEATHER CLOUDY, 45°F, THREAT OF RAIN
BREEZY & COOL

0730 KEVIN McGOVERN & BOB ITENSCHEL ARRIVE ONSITE
LOOK SITE TO CHECK LOCATION OF MWs & PZ

TIME	WELL	DTW	TD DEPTH	COMMENTS
0805	RW-01	3.27	17.5'	V FINE SAND IN BOTTOM ~2-3"
0807	RW-02	4.08	15.75'	THIRD, CLEAN BOTTOM
0838	PZ-01S	4.78	15'	~2" SAND FINE PZ GOOD SHAPE
0837	PZ-01D	4.96	27'	1" FINE SAND PZ GOOD SHAPE
0835	PZ-02S	4.91	16.5'	1-2" FINE SAND PZ GOOD SHAPE
0831	PZ-03S	3.95'	15'	NO CLEAN BOT - PZ IN GOOD SHAPE
0830	PZ-03D	3.49	27'	SOME FINE SAND ~1" PZ IN GOOD SHAPE
0842	PZ-04S	6.20	15.1'	NO CLEAN BT - PZ GOOD SHAPE
0840	PZ-04D	6.23	27.1'	CLEAN NO BOT PZ GOOD SHAPE
0828	PZ-05S	3.90'	15'	NO CLEAN BOT PZ GOOD SHAPE
0827	PZ-05D	4.49'	26.7'	NO CLEAN BOT - PZ GOOD SHAPE
0817	PZ-07S	4.90	14.8'	NO CLEAN BOT PZ - GOOD SHAPE
0818	PZ-07D	4.82	27.0'	" " " " " "
0815	PZ-08S	5.18'	15'	NO CLEAN BOT. PZ IN GOOD SHAPE
0826	PZ-09S	5.33'	15'	" " " " " "
0833	MW-01	10.55	28.75	NO CLEAN BOT BOX IS DRY
0824	MW-02	3.63'	26.6	NO CLEAN BOT BOX FULL OF GRAVEL
0812	MW-04	4.40	27.5'	NO CLEAN BOTTOM - WELL BOX FULL OF GRAVEL
0852 *	MW-06S	2.12' #	19.8'	NO CLEAN BOT - BOX DRY
0850	MW-06D	2.14'	~~27.8~~ 29.6	1-2" FINE SAND BOX WET
0847	MW-07S	3.39	18.9	BOX DRY NO CLEAN BOT
0845	MW-07D	4.15	30.1	BOX DRY NO CLEAN BOT

BEST SIZE
3/4" 7/8" 9/16" NONE 3/4 3/4" 1 3/4 3/4"

* GATE LOCK IS RUSTED BUT OPERABLE
* BRING SPONGE & TURKEY BASTER NEXT TIME TO BAIL OUT WELL BOXES

Continued on Page

Read and Understood By

Signed _____ Date 4/9/13 Signed _____ Date _____

COMPLETED FIELD READOUT WATER LEVEL READINGS AND INSPECTION OF WELL PAD.

SET-UP FOR WELL SAMPLING. CALIBRATED METERS (BRAND NEW EQUIPMENT FROM ECO-TECH SOLUTIONS IN ROCHESTER)

0920 / INITIATED PURGING OF MW-07D, INITIAL DTW = 4.15' SEE SAMPLING LOG

10:00 - FINISHED SAMPLING MW-07D, BEGAN SAMPLING MW-07S, SEE SAMPLING LOG

11:15 - FINISHED SAMPLING MW-07S, BEGAN SAMPLING MW-06D, SEE SAMPLE LOG

12:20 - FINISHED SAMPLING MW-06D, BEGAN SAMPLING MW-06S, (#1) PLEASE NOTE INITIAL DTW = 7.80' @ 12:15 5' LOWER THAN ITS 08:52 MEASUREMENT OF 2.12'. SEE SAMPLE LOG

12:55 - FINISHED SAMPLING MW-06S, BEGAN CLEANUP

13:20 - BEGAN SITE INSPECTION

13:55 - FINISHED INSPECTION KEVIN OFF SITE

Continued on Page

Read and Understood By

Signed Date Signed Date

APPENDIX C

ANALYTICAL DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-35891-1

Job Description: URS-Dowell Facility

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: Mr. George Kisluk

Melissa Deyo

Approved for release
Melissa L Deyo
Project Manager I
4/17/2013 11:09 AM

Melissa L Deyo
Project Manager I
melissa.deyo@testamericainc.com
04/17/2013

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-35891-1

Receipt
The samples were received on 4/9/2013 2:28 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06S-04/13 (480-35891-1) and MW-06D-04/13 (480-35891-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-35891-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-35891-1	MW-06S-04/13	Water	04/09/2013 1255	04/09/2013 1428
480-35891-2	MW-06D-04/13	Water	04/09/2013 1214	04/09/2013 1428
480-35891-3	MW-07S-04/13	Water	04/09/2013 1105	04/09/2013 1428
480-35891-4	MW-07D-04/13	Water	04/09/2013 0959	04/09/2013 1428
480-35891-5	TRIP BLANK	Water	04/09/2013 0000	04/09/2013 1428

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-35891-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-35891-1	**MW-06S-04/13**					
1,1,1-Trichloroethane		260		200	ug/L	8260B
1,1-Dichloroethane		9500		200	ug/L	8260B
~~2-Butanone (MEK)~~		~~280~~	~~J~~	~~2000~~	~~ug/L~~	~~8260B~~
Chloroethane		460		200	ug/L	8260B
480-35891-2	**MW-06D-04/13**					
1,1,1-Trichloroethane		180	J	200	ug/L	8260B
1,1-Dichloroethane		15000		200	ug/L	8260B
~~2-Butanone (MEK)~~		~~270~~	~~J~~	~~2000~~	~~ug/L~~	~~8260B~~
Chloroethane		600		200	ug/L	8260B
480-35891-3	**MW-07S-04/13**					
1,1-Dichloroethane		1.2		1.0	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-35891-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-35891-1

Method	Analyst	Analyst ID
SW846 8260B	Quirk, Patrick J	PJQ

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-06S-04/13**

Lab Sample ID: 480-35891-1
Client Matrix: Water

Date Sampled: 04/09/2013 1255
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7124.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1615			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	260		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	9500		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND ~~280~~	J	260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	460		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-06S-04/13**

Lab Sample ID: 480-35891-1
Client Matrix: Water

Date Sampled: 04/09/2013 1255
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7124.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1615			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	95		73 - 120

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-06D-04/13**

Lab Sample ID: 480-35891-2
Client Matrix: Water

Date Sampled: 04/09/2013 1214
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7125.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1643			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	180	J	160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	15000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND 270	J	260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND		52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	600		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-06D-04/13**

Lab Sample ID: 480-35891-2
Client Matrix: Water

Date Sampled: 04/09/2013 1214
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7125.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1643			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-07S-04/13**

Lab Sample ID: 480-35891-3
Client Matrix: Water

Date Sampled: 04/09/2013 1105
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7126.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1710			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1710				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1.2		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-07S-04/13**

Lab Sample ID: 480-35891-3
Client Matrix: Water

Date Sampled: 04/09/2013 1105
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7126.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1710			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1710				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	93		73 - 120

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-07D-04/13**

Lab Sample ID: 480-35891-4
Client Matrix: Water

Date Sampled: 04/09/2013 0959
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7127.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1738			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1738				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **MW-07D-04/13**

Lab Sample ID: 480-35891-4
Client Matrix: Water

Date Sampled: 04/09/2013 0959
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7127.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1738			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1738				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	95		73 - 120

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-35891-5
Client Matrix: Water

Date Sampled: 04/09/2013 0000
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7128.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1805			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-35891-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-35891-5
Client Matrix: Water

Date Sampled: 04/09/2013 0000
Date Received: 04/09/2013 1428

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q7128.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1805			Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	95		73 - 120

Client: URS Corporation

Job Number: 480-35891-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-35891-1	MW-06S-04/13	107	97	95
480-35891-2	MW-06D-04/13	106	96	98
480-35891-3	MW-07S-04/13	106	96	93
480-35891-4	MW-07D-04/13	104	97	95
480-35891-5	TRIP BLANK	107	98	95
MB 480-112867/4		106	98	97
LCS 480-112867/3		104	97	94

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: URS Corporation

Job Number: 480-35891-1

Method Blank - Batch: 480-112867

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-112867/4	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q7112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1026	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-35891-1

Method Blank - Batch: 480-112867

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-112867/4	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q7112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 1026	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 1026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	66 - 137
Toluene-d8 (Surr)	98	71 - 126
4-Bromofluorobenzene (Surr)	97	73 - 120

Lab Control Sample - Batch: 480-112867

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-112867/3	Analysis Batch:	480-112867	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q7111.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/15/2013 0959	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/15/2013 0959				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	26.1	104	71 - 129	
1,1-Dichloroethene	25.0	22.5	90	58 - 121	
1,2-Dichlorobenzene	25.0	25.9	103	80 - 124	
1,2-Dichloroethane	25.0	26.8	107	75 - 127	
Benzene	25.0	27.1	109	71 - 124	
Chlorobenzene	25.0	26.0	104	72 - 120	
cis-1,2-Dichloroethene	25.0	25.3	101	74 - 124	
Ethylbenzene	25.0	25.7	103	77 - 123	
Methyl tert-butyl ether	25.0	27.3	109	64 - 127	
Tetrachloroethene	25.0	24.8	99	74 - 122	
Toluene	25.0	25.2	101	80 - 122	
trans-1,2-Dichloroethene	25.0	26.9	108	73 - 127	
Trichloroethene	25.0	25.3	101	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	66 - 137
Toluene-d8 (Surr)	97	71 - 126
4-Bromofluorobenzene (Surr)	94	73 - 120

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 480-35891-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: URS Corporation

Job Number: 480-35891-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-112867					
LCS 480-112867/3	Lab Control Sample	T	Water	8260B	
MB 480-112867/4	Method Blank	T	Water	8260B	
480-35891-1	MW-06S-04/13	T	Water	8260B	
480-35891-2	MW-06D-04/13	T	Water	8260B	
480-35891-3	MW-07S-04/13	T	Water	8260B	
480-35891-4	MW-07D-04/13	T	Water	8260B	
480-35891-5	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: URS Corporation

Job Number: 480-35891-1

Laboratory Chronicle

Lab ID: 480-35891-1 **Client ID:** MW-06S-04/13

Sample Date/Time: 04/09/2013 12:55 Received Date/Time: 04/09/2013 14:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-35891-A-1		480-112867		04/15/2013 16:15	200	TAL BUF	PJQ
A:8260B	480-35891-A-1		480-112867		04/15/2013 16:15	200	TAL BUF	PJQ

Lab ID: 480-35891-2 **Client ID:** MW-06D-04/13

Sample Date/Time: 04/09/2013 12:14 Received Date/Time: 04/09/2013 14:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-35891-A-2		480-112867		04/15/2013 16:43	200	TAL BUF	PJQ
A:8260B	480-35891-A-2		480-112867		04/15/2013 16:43	200	TAL BUF	PJQ

Lab ID: 480-35891-3 **Client ID:** MW-07S-04/13

Sample Date/Time: 04/09/2013 11:05 Received Date/Time: 04/09/2013 14:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-35891-A-3		480-112867		04/15/2013 17:10	1	TAL BUF	PJQ
A:8260B	480-35891-A-3		480-112867		04/15/2013 17:10	1	TAL BUF	PJQ

Lab ID: 480-35891-4 **Client ID:** MW-07D-04/13

Sample Date/Time: 04/09/2013 09:59 Received Date/Time: 04/09/2013 14:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-35891-A-4		480-112867		04/15/2013 17:38	1	TAL BUF	PJQ
A:8260B	480-35891-A-4		480-112867		04/15/2013 17:38	1	TAL BUF	PJQ

Lab ID: 480-35891-5 **Client ID:** TRIP BLANK

Sample Date/Time: 04/09/2013 00:00 Received Date/Time: 04/09/2013 14:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-35891-A-5		480-112867		04/15/2013 18:05	1	TAL BUF	PJQ
A:8260B	480-35891-A-5		480-112867		04/15/2013 18:05	1	TAL BUF	PJQ

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-112867/4		480-112867		04/15/2013 10:26	1	TAL BUF	PJQ
A:8260B	MB 480-112867/4		480-112867		04/15/2013 10:26	1	TAL BUF	PJQ

Client: URS Corporation

Job Number: 480-35891-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-112867/3		480-112867		04/15/2013 09:59	1	TAL BUF	PJQ
A:8260B	LCS 480-112867/3		480-112867		04/15/2013 09:59	1	TAL BUF	PJQ

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: URS Corporation
Project/Site: URS-Dowell Facility

TestAmerica Job ID: 480-35891-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-06S-04/13	480-35891-1	107	97	95
MW-06D-04/13	480-35891-2	106	96	98
MW-07S-04/13	480-35891-3	106	96	93
MW-07D-04/13	480-35891-4	104	97	95
TRIP BLANK	480-35891-5	107	98	95
	MB 480-112867/4	106	98	97
	LCS 480-112867/3	104	97	94

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q7111.D

Lab ID: LCS 480-112867/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	26.1	104	71-129	
1,1-Dichloroethene	25.0	22.5	90	58-121	
1,2-Dichlorobenzene	25.0	25.9	103	80-124	
1,2-Dichloroethane	25.0	26.8	107	75-127	
Benzene	25.0	27.1	109	71-124	
Chlorobenzene	25.0	26.0	104	72-120	
cis-1,2-Dichloroethene	25.0	25.3	101	74-124	
Ethylbenzene	25.0	25.7	103	77-123	
Methyl tert-butyl ether	25.0	27.3	109	64-127	
Tetrachloroethene	25.0	24.8	99	74-122	
Toluene	25.0	25.2	101	80-122	
trans-1,2-Dichloroethene	25.0	26.9	108	73-127	
Trichloroethene	25.0	25.3	101	74-123	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Lab File ID: Q7112.D Lab Sample ID: MB 480-112867/4

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973Q Date Analyzed: 04/15/2013 10:26

GC Column: ZB-624 (60) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-112867/3	Q7111.D	04/15/2013 09:59
MW-06S-04/13	480-35891-1	Q7124.D	04/15/2013 16:15
MW-06D-04/13	480-35891-2	Q7125.D	04/15/2013 16:43
MW-07S-04/13	480-35891-3	Q7126.D	04/15/2013 17:10
MW-07D-04/13	480-35891-4	Q7127.D	04/15/2013 17:38
TRIP BLANK	480-35891-5	Q7128.D	04/15/2013 18:05

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Lab File ID: Q6992.D BFB Injection Date: 04/11/2013

Instrument ID: HP5973Q BFB Injection Time: 11:23

Analysis Batch No.: 112223

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	42.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	85.4	
175	5.0 - 9.0 % of mass 174	6.2	(7.3)1
176	95.0 - 101.0 % of mass 174	84.9	(99.4)1
177	5.0 - 9.0 % of mass 176	5.3	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-112223/2	Q6993.D	04/11/2013	11:47
	IC 480-112223/3	Q6994.D	04/11/2013	12:14
	IC 480-112223/4	Q6995.D	04/11/2013	13:18
	ICIS 480-112223/5	Q6996.D	04/11/2013	13:45
	IC 480-112223/6	Q6997.D	04/11/2013	14:13
	IC 480-112223/7	Q6998.D	04/11/2013	14:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Lab File ID: Q7109.D BFB Injection Date: 04/15/2013

Instrument ID: HP5973Q BFB Injection Time: 08:55

Analysis Batch No.: 112867

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.8	
75	30.0 - 60.0 % of mass 95	44.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	87.6	
175	5.0 - 9.0 % of mass 174	6.9	(7.8)1
176	95.0 - 101.0 % of mass 174	87.1	(99.4)1
177	5.0 - 9.0 % of mass 176	5.5	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-112867/2	Q7110.D	04/15/2013	09:26
	LCS 480-112867/3	Q7111.D	04/15/2013	09:59
	MB 480-112867/4	Q7112.D	04/15/2013	10:26
MW-06S-04/13	480-35891-1	Q7124.D	04/15/2013	16:15
MW-06D-04/13	480-35891-2	Q7125.D	04/15/2013	16:43
MW-07S-04/13	480-35891-3	Q7126.D	04/15/2013	17:10
MW-07D-04/13	480-35891-4	Q7127.D	04/15/2013	17:38
TRIP BLANK	480-35891-5	Q7128.D	04/15/2013	18:05

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Sample No.: ICIS 480-112223/5 Date Analyzed: 04/11/2013 13:45

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q6996.D Heated Purge: (Y/N) N

Calibration ID: 13093

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		695703	5.01	304148	7.20	313380	9.06
UPPER LIMIT		1391406	5.51	608296	7.70	626760	9.56
LOWER LIMIT		347852	4.51	152074	6.70	156690	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-112867/2		596734	5.01	269266	7.20	267861	9.06

DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Sample No.: CCVIS 480-112867/2 Date Analyzed: 04/15/2013 09:26

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q7110.D Heated Purge: (Y/N) N

Calibration ID: 13093

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		596734	5.01	269266	7.20	267861	9.06
UPPER LIMIT		1193468	5.51	538532	7.70	535722	9.56
LOWER LIMIT		298367	4.51	134633	6.70	133931	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-112867/3		563032	5.01	259445	7.20	259465	9.07
MB 480-112867/4		546844	5.01	253451	7.20	255375	9.07
480-35891-1	MW-06S-04/13	506421	5.01	235309	7.20	240454	9.06
480-35891-2	MW-06D-04/13	487666	5.01	229069	7.20	237071	9.07
480-35891-3	MW-07S-04/13	493897	5.01	235328	7.20	234950	9.07
480-35891-4	MW-07D-04/13	517041	5.01	233615	7.20	231407	9.06
480-35891-5	TRIP BLANK	507985	5.01	234072	7.20	237306	9.06

DFB = 1,4-Difluorobenzene

DFB = 1,4-Difluorobenzene

CBZ = Chlorobenzene-d5

CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

DCB = 1,4-Dichlorobenzene-d4

RT Limit = ± 0.5 minutes of internal standard RT

DCB = 1,4-Dichlorobenzene-d4

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-06S-04/13 | Lab Sample ID: 480-35891-1

Matrix: Water | Lab File ID: Q7124.D

Analysis Method: 8260B | Date Collected: 04/09/2013 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 16:15

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	260		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		200	62
75-34-3	1,1-Dichloroethane	9500		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
106-93-4	1,2-Dibromoethane (EDB)	ND		200	150
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
591-78-6	2-Hexanone	ND		1000	250
78-93-3	2-Butanone (MEK)	ND ~~280~~	~~J~~	2000	260
540-59-0	1,2-Dichloroethene, Total	ND		400	140
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Chlorodibromomethane	ND		200	64
75-00-3	Chloroethane	460		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	ND		200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-06S-04/13 | Lab Sample ID: 480-35891-1

Matrix: Water | Lab File ID: Q7124.D

Analysis Method: 8260B | Date Collected: 04/09/2013 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 16:15

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		200	100
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	ND		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	ND		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		66-137
2037-26-5	Toluene-d8 (Surr)	97		71-126
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D		
Lims ID:	480-35891-A-1	Client ID:	MW-06S-04/13
Inject. Date:	15-Apr-2013 16:15:30	Dil. Factor:	200.0000
Sample Type:	Client		
Sample ID:	480-35891-A-1		
Misc. Info.:	480-0020599-016		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	16
Lims Batch ID:	112867	Lims Sample ID:	16
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 14:58:29	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK009		
First Level Reviewer: BrandtT		Date:	15-Apr-2013 16:58:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.010	5.012	-0.002	94	506421	25.0	
* 2 Chlorobenzene-d5	82	7.200	7.202	-0.002	85	235309	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.063	-0.001	94	240454	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.700	4.702	-0.002	86	79298	26.7	
$ 5 Toluene-d8 (Surr)	98	6.093	6.095	-0.002	94	556937	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.131	8.133	-0.002	92	176899	23.8	
10 Dichlorodifluoromethane	85		1.362					
12 Chloromethane	50		1.508					
13 Vinyl chloride	62		1.599					
14 Bromomethane	94		1.879					
15 Chloroethane	64	1.974	1.958	0.016	41	4780	2.29	
17 Trichlorofluoromethane	101		2.189					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
22 1,1-Dichloroethene	96		2.657					
23 Acetone	43		2.749					
26 Carbon disulfide	76		2.834					
27 Methyl acetate	43		3.010					
30 Methylene Chloride	84		3.095					
32 Methyl tert-butyl ether	73		3.296					
34 trans-1,2-Dichloroethene	96		3.302					
39 1,1-Dichloroethane	63	3.641	3.643	-0.002	97	587180	47.7	
45 cis-1,2-Dichloroethene	96		4.093					9
43 2-Butanone (MEK)	43	4.128	4.111	0.017	66	5582	1.42	
50 Chloroform	83		4.337					
51 1,1,1-Trichloroethane	97	4.444	4.452	-0.008	81	11030	1.28	
52 Cyclohexane	56		4.470					
55 Carbon tetrachloride	117		4.568					9
57 Benzene	78		4.726					
58 1,2-Dichloroethane	62		4.756					
62 Trichloroethene	95		5.200					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
68 Dichlorobromomethane	83		5.590					
72 cis-1,3-Dichloropropene	75		5.906					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					
77 trans-1,3-Dichloropropene	75		6.326					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
84 Ethylene Dibromide	107		6.861					
87 Chlorobenzene	112		7.226					
88 Ethylbenzene	91		7.293					
90 m-Xylene & p-Xylene	106		7.384					
91 o-Xylene	106		7.701					
92 Styrene	104		7.719					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					
97 1,1,2,2-Tetrachloroethane	83		8.260					
111 1,3-Dichlorobenzene	146		9.009					
113 1,4-Dichlorobenzene	146		9.082					
116 1,2-Dichlorobenzene	146		9.392					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

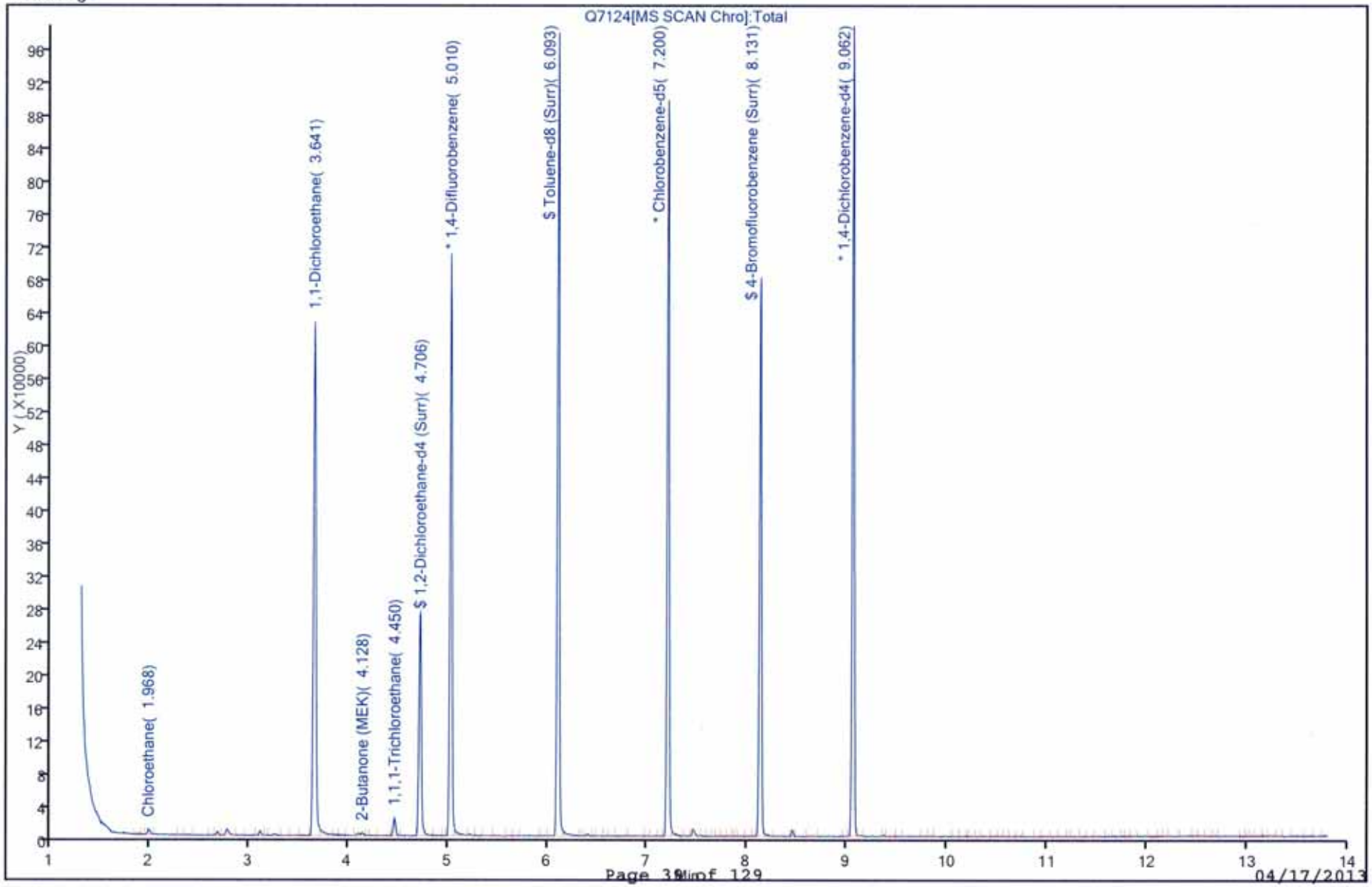
Report Date: 15-Apr-2013 16:58:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D

Injection Date:	15-Apr-2013 16:15:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	16
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

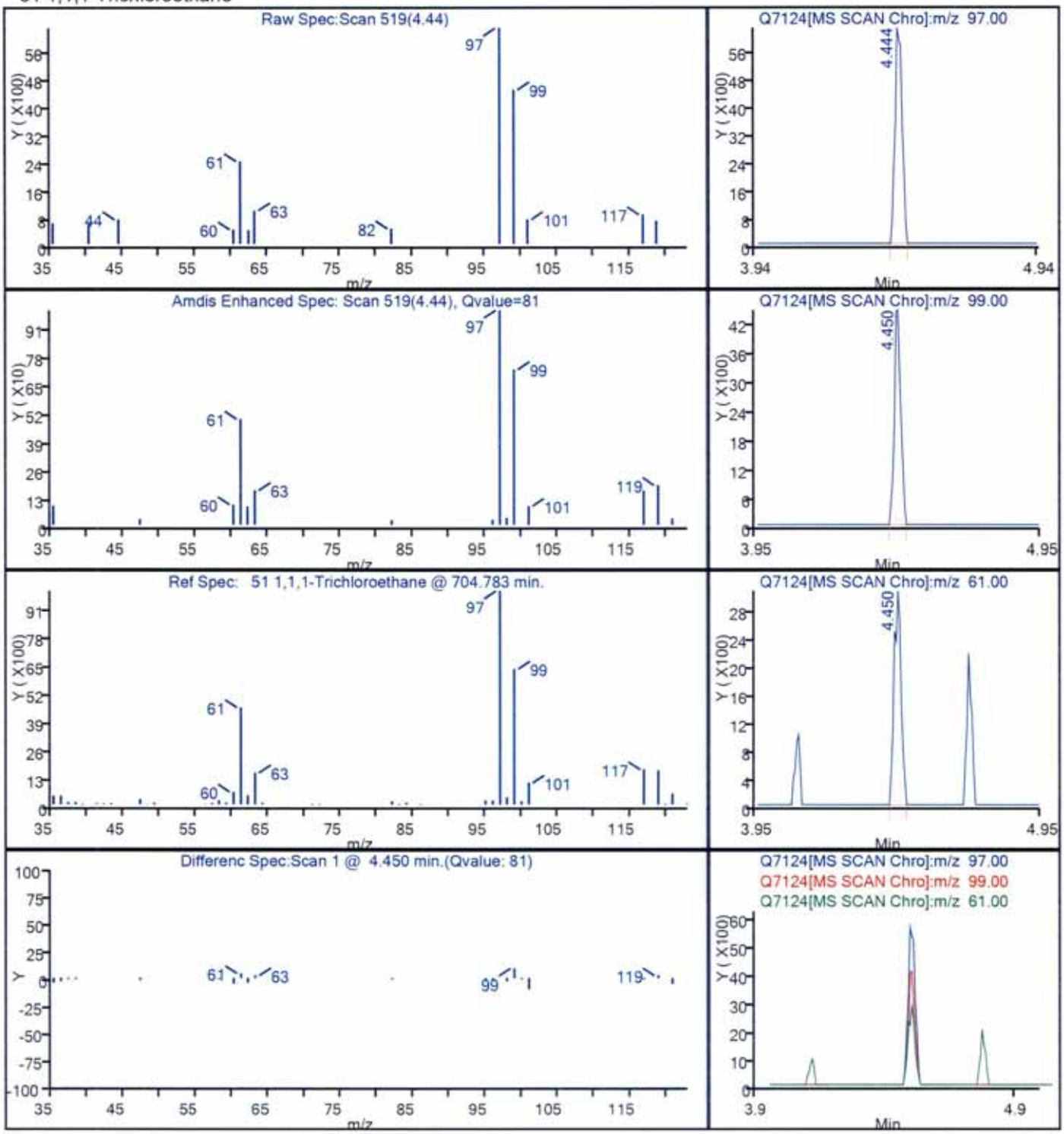
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TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D

Injection Date:	15-Apr-2013 16:15:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	16
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

51 1,1,1-Trichloroethane



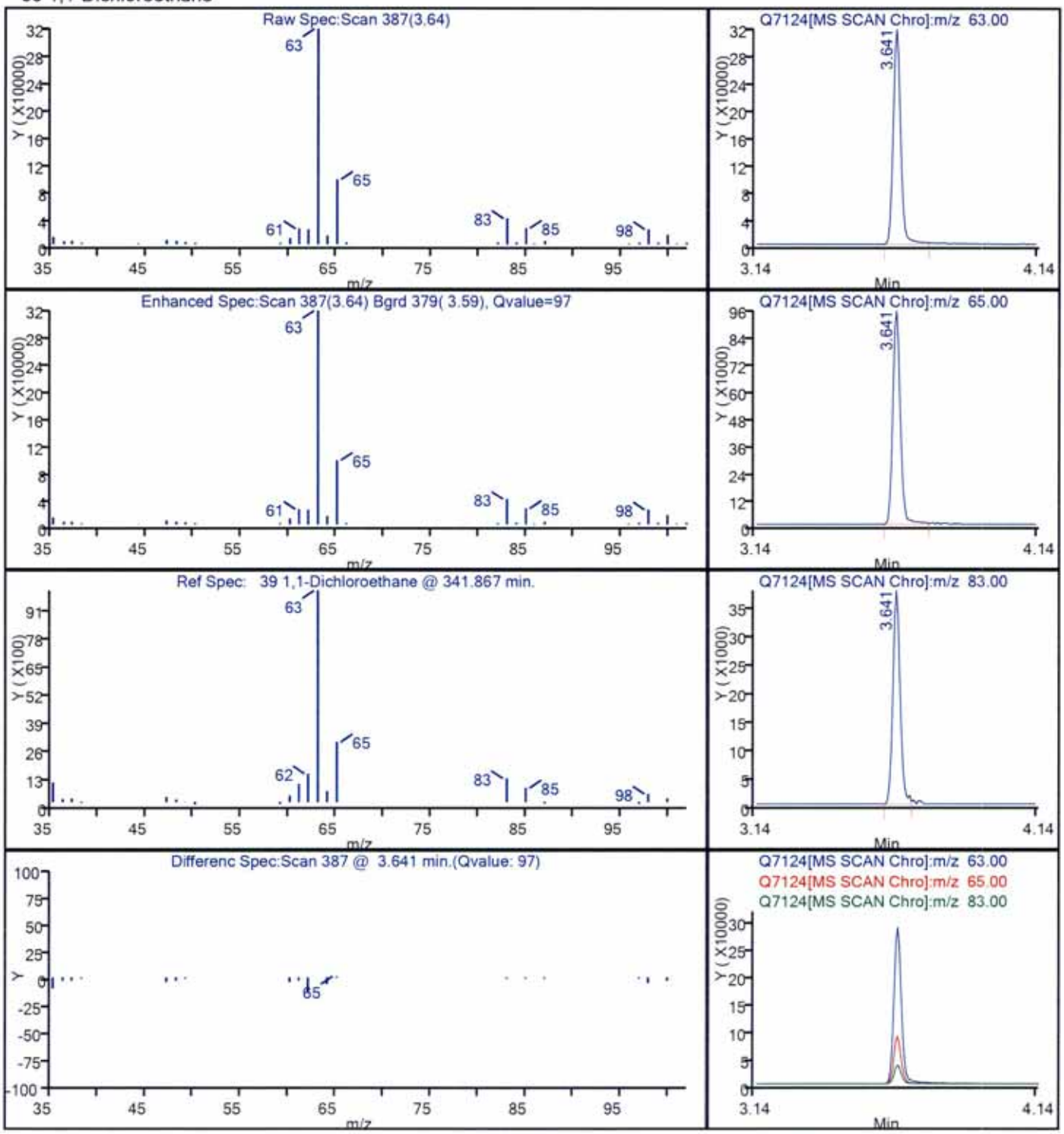
Report Date: 15-Apr-2013 16:58:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D

Injection Date:	15-Apr-2013 16:15:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	16
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



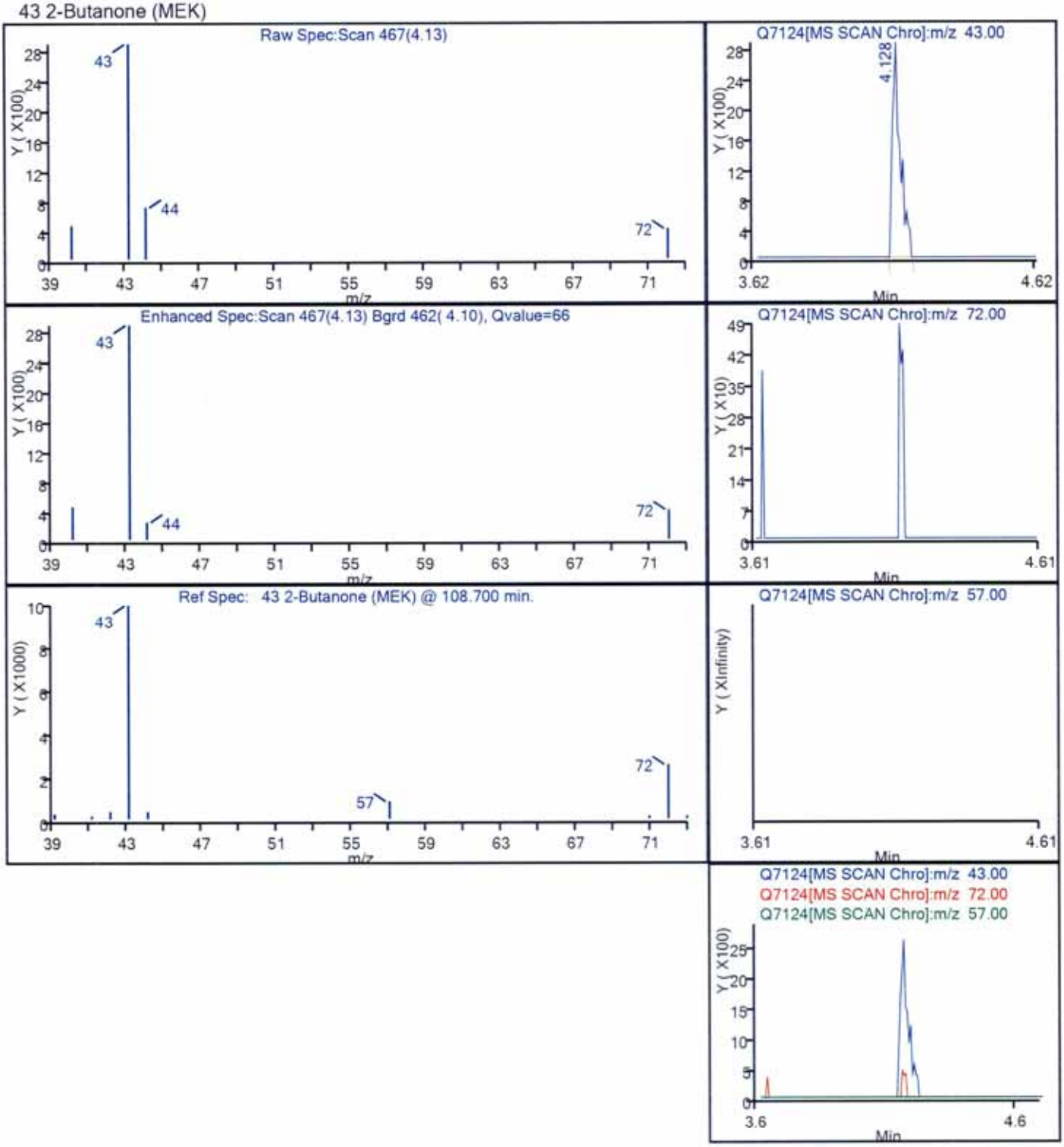
Report Date: 15-Apr-2013 16:58:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D

Injection Date:	15-Apr-2013 16:15:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	16
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)



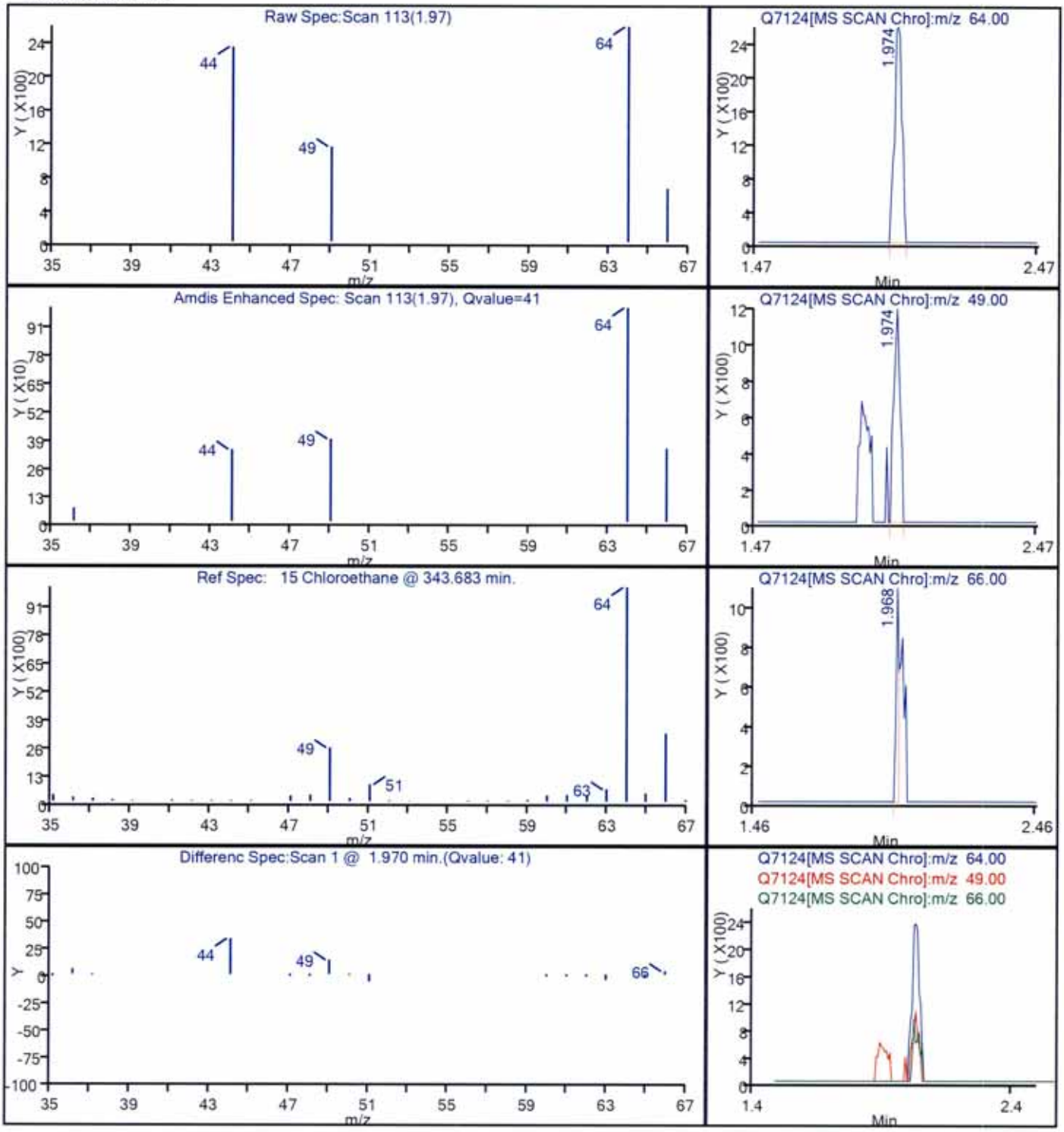
Report Date: 15-Apr-2013 16:58:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7124.D

Injection Date:	15-Apr-2013 16:15:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	16
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

15 Chloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-06D-04/13 Lab Sample ID: 480-35891-2

Matrix: Water Lab File ID: Q7125.D

Analysis Method: 8260B Date Collected: 04/09/2013 12:14

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 16:43

Soil Aliquot Vol: Dilution Factor: 200

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	180	J	200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		200	62
75-34-3	1,1-Dichloroethane	15000		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
106-93-4	1,2-Dibromoethane (EDB)	ND		200	150
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
591-78-6	2-Hexanone	ND		1000	250
78-93-3	2-Butanone (MEK)	ND ~~210~~	J	2000	260
540-59-0	1,2-Dichloroethene, Total	ND		400	140
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Chlorodibromomethane	ND		200	64
75-00-3	Chloroethane	600		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	ND		200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-06D-04/13 Lab Sample ID: 480-35891-2

Matrix: Water Lab File ID: Q7125.D

Analysis Method: 8260B Date Collected: 04/09/2013 12:14

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 16:43

Soil Aliquot Vol: Dilution Factor: 200

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		200	100
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	ND		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	ND		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D		
Lims ID:	480-35891-A-2	Client ID:	MW-06D-04/13
Inject. Date:	15-Apr-2013 16:43:30	Dil. Factor:	200.0000
Sample Type:	Client		
Sample ID:	480-35891-A-2		
Misc. Info.:	480-0020599-017		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	17
Lims Batch ID:	112867	Lims Sample ID:	17
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 14:58:29	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK009		
First Level Reviewer: BrandtT		Date:	15-Apr-2013 17:07:00

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.013	5.012	0.001	94	487666	25.0	
* 2 Chlorobenzene-d5	82	7.203	7.202	0.001	84	229069	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.065	9.063	0.002	94	237071	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.703	4.702	0.001	94	76026	26.6	
$ 5 Toluene-d8 (Surr)	98	6.096	6.095	0.001	93	540517	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.128	8.133	-0.005	92	178021	24.6	
10 Dichlorodifluoromethane	85		1.362					
12 Chloromethane	50		1.508					
13 Vinyl chloride	62		1.599					
14 Bromomethane	94		1.879					
15 Chloroethane	64	1.971	1.958	0.013	51	6057	3.01	
17 Trichlorofluoromethane	101		2.189					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
22 1,1-Dichloroethene	96		2.657					
23 Acetone	43		2.749					
26 Carbon disulfide	76		2.834					
27 Methyl acetate	43		3.010					
30 Methylene Chloride	84		3.095					
32 Methyl tert-butyl ether	73		3.296					
34 trans-1,2-Dichloroethene	96		3.302					
39 1,1-Dichloroethane	63	3.638	3.643	-0.005	96	906486	76.5	
45 cis-1,2-Dichloroethene	96		4.093					9
43 2-Butanone (MEK)	43	4.125	4.111	0.014	63	5033	1.33	
50 Chloroform	83		4.337					
51 1,1,1-Trichloroethane	97	4.453	4.452	0.001	67	7477	0.9004	
52 Cyclohexane	56		4.470					
55 Carbon tetrachloride	117		4.568					9
57 Benzene	78		4.726					
58 1,2-Dichloroethane	62		4.756					
62 Trichloroethene	95		5.200					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
68 Dichlorobromomethane	83		5.590					
72 cis-1,3-Dichloropropene	75		5.906					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					
77 trans-1,3-Dichloropropene	75		6.326					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
84 Ethylene Dibromide	107		6.861					
87 Chlorobenzene	112		7.226					
88 Ethylbenzene	91		7.293					
90 m-Xylene & p-Xylene	106		7.384					
91 o-Xylene	106		7.701					
92 Styrene	104		7.719					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					
97 1,1,2,2-Tetrachloroethane	83		8.260					
111 1,3-Dichlorobenzene	146		9.009					
113 1,4-Dichlorobenzene	146		9.082					
116 1,2-Dichlorobenzene	146		9.392					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

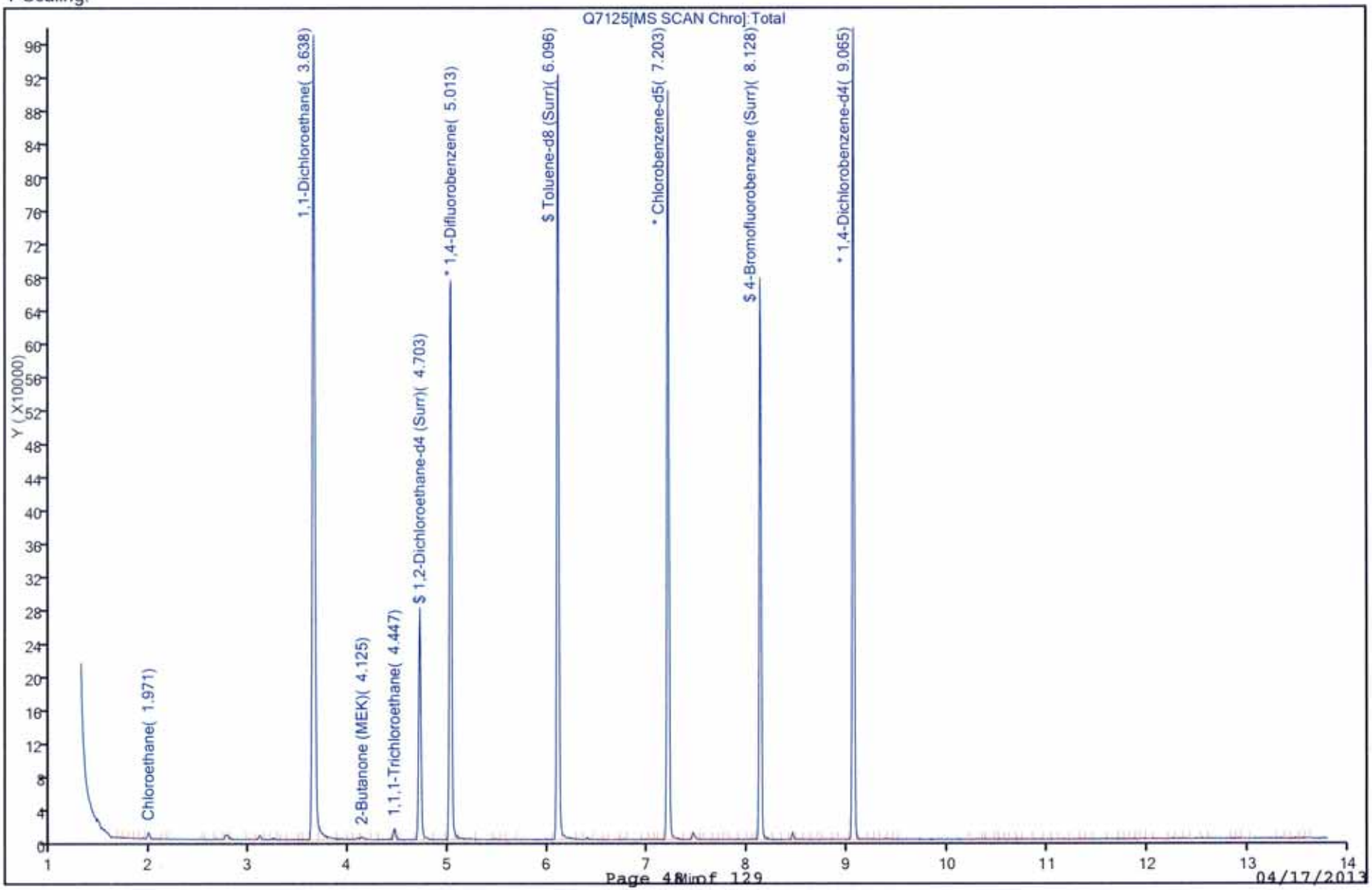
Report Date: 15-Apr-2013 17:07:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D

Injection Date:	15-Apr-2013 16:43:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	17
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

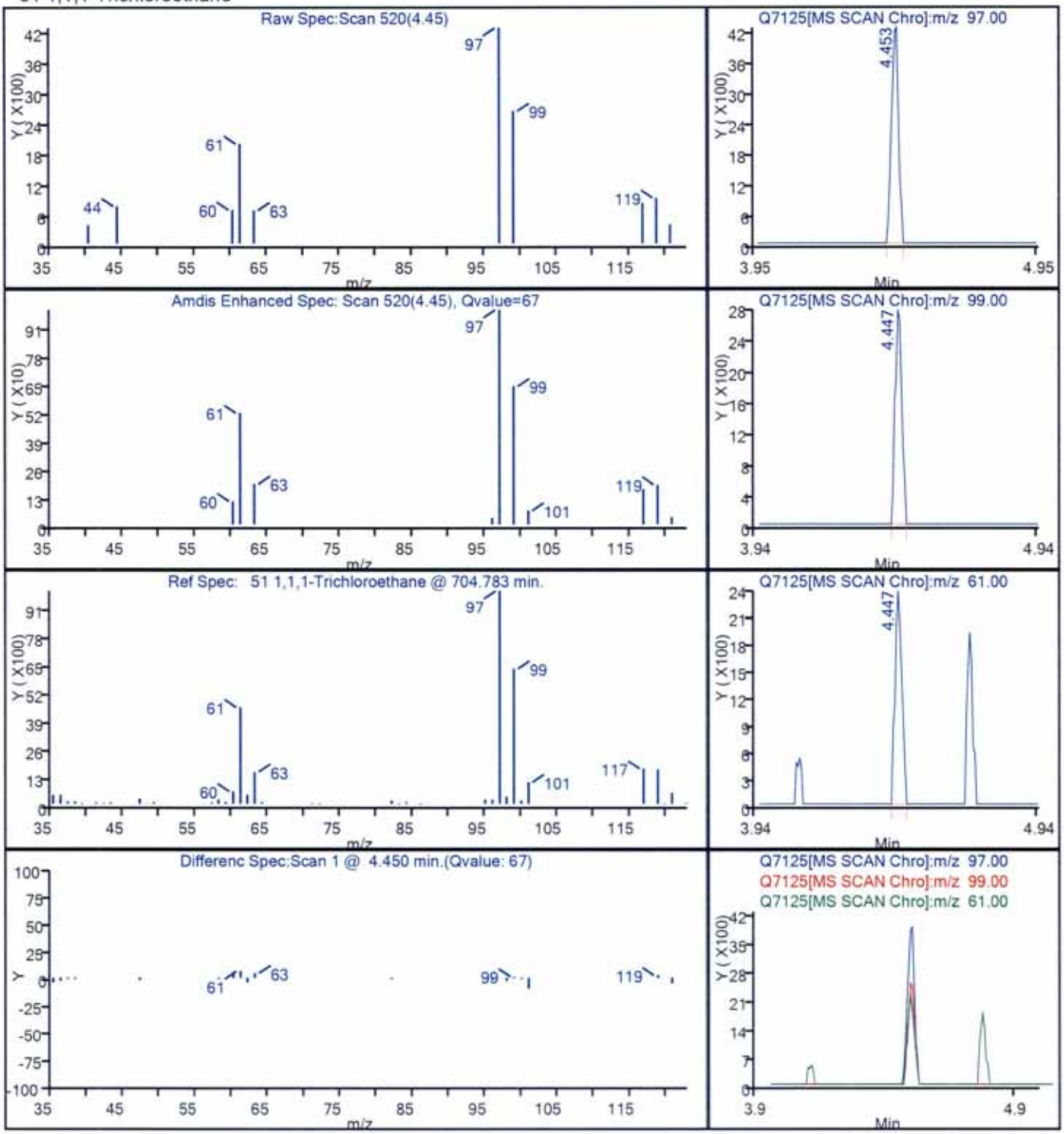
Report Date: 15-Apr-2013 17:07:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D

Injection Date:	15-Apr-2013 16:43:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	17
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

51 1,1,1-Trichloroethane



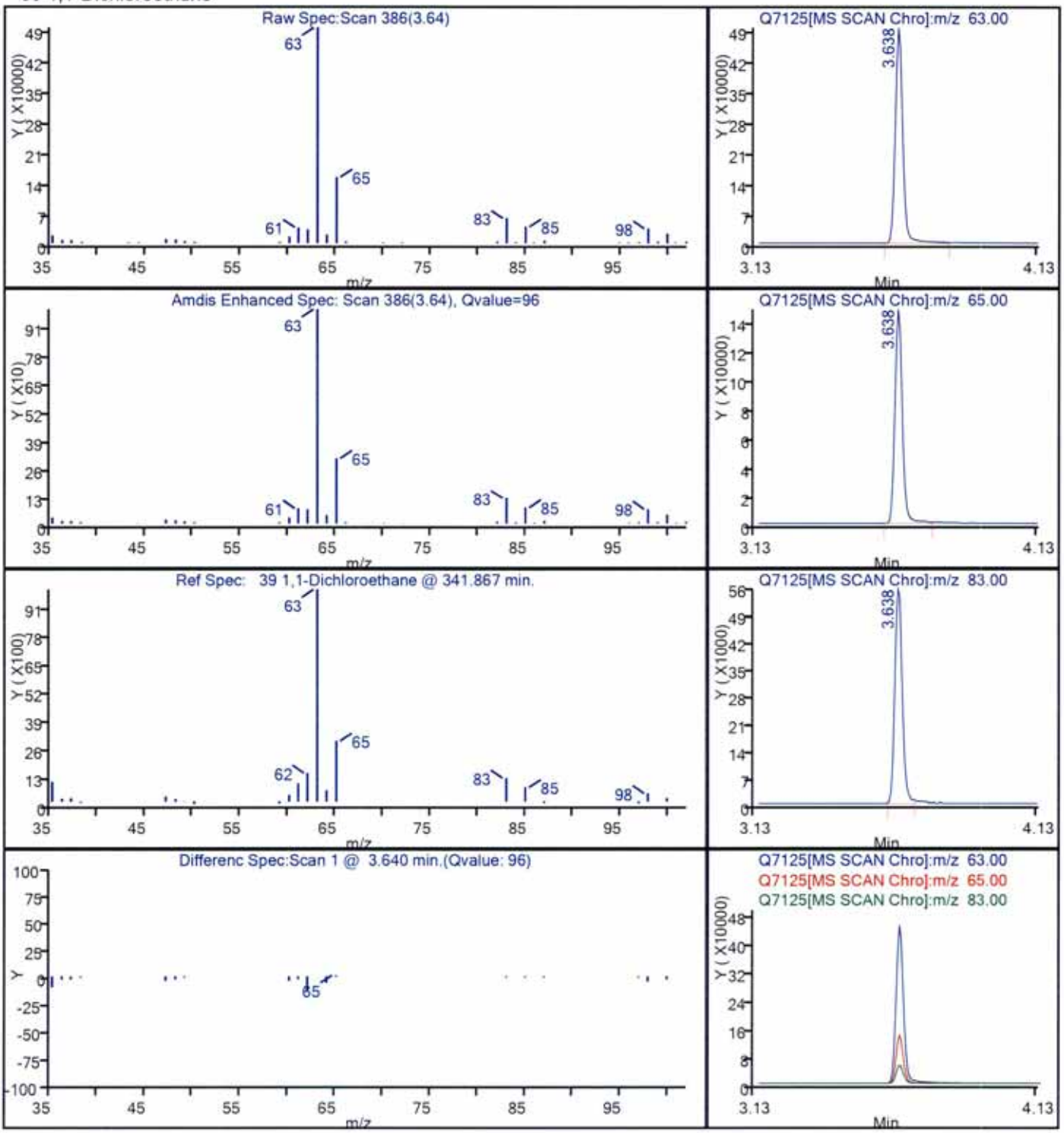
Report Date: 15-Apr-2013 17:07:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D

Injection Date:	15-Apr-2013 16:43:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	17
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



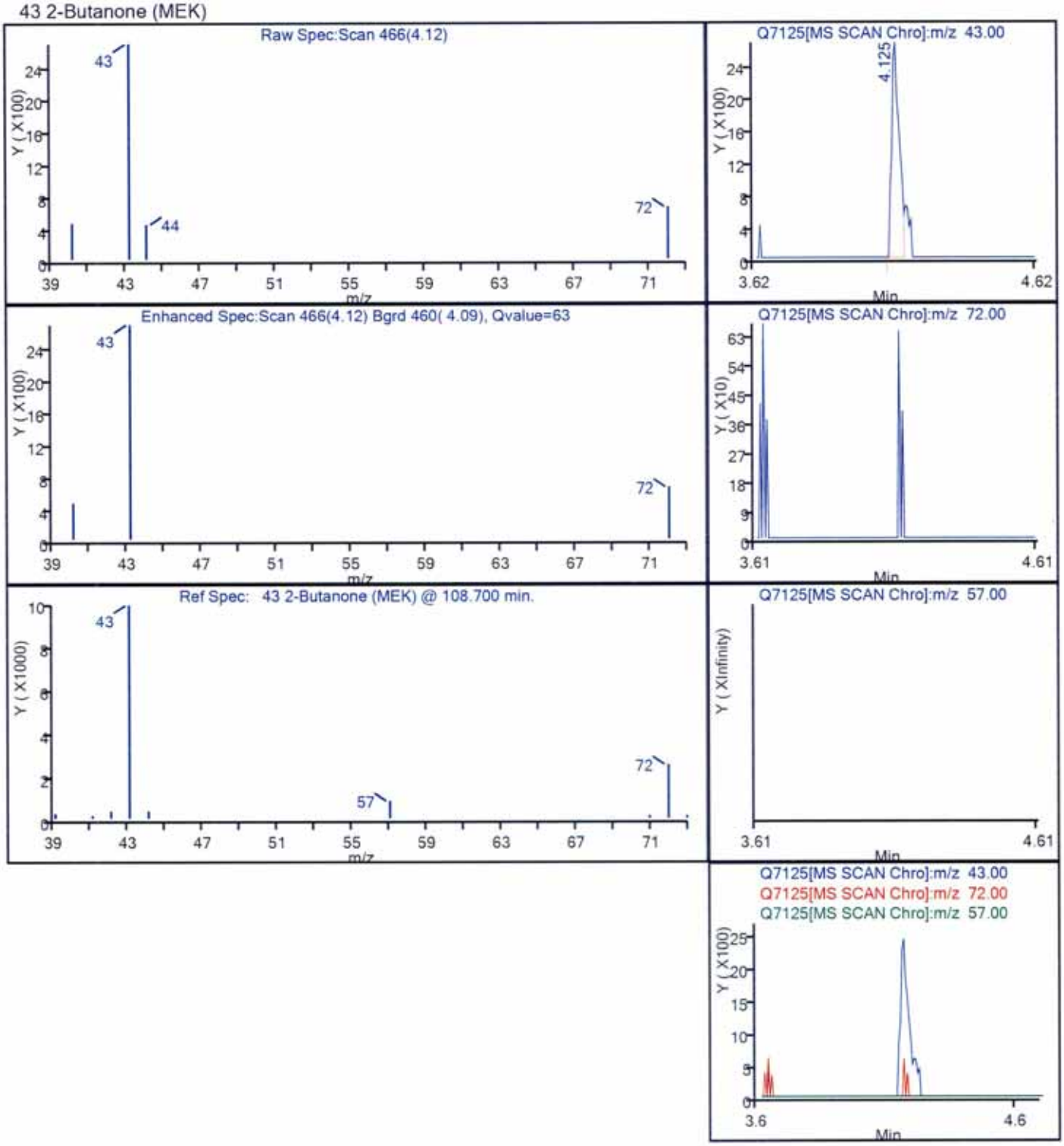
Report Date: 15-Apr-2013 17:07:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D

Injection Date:	15-Apr-2013 16:43:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	17
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)



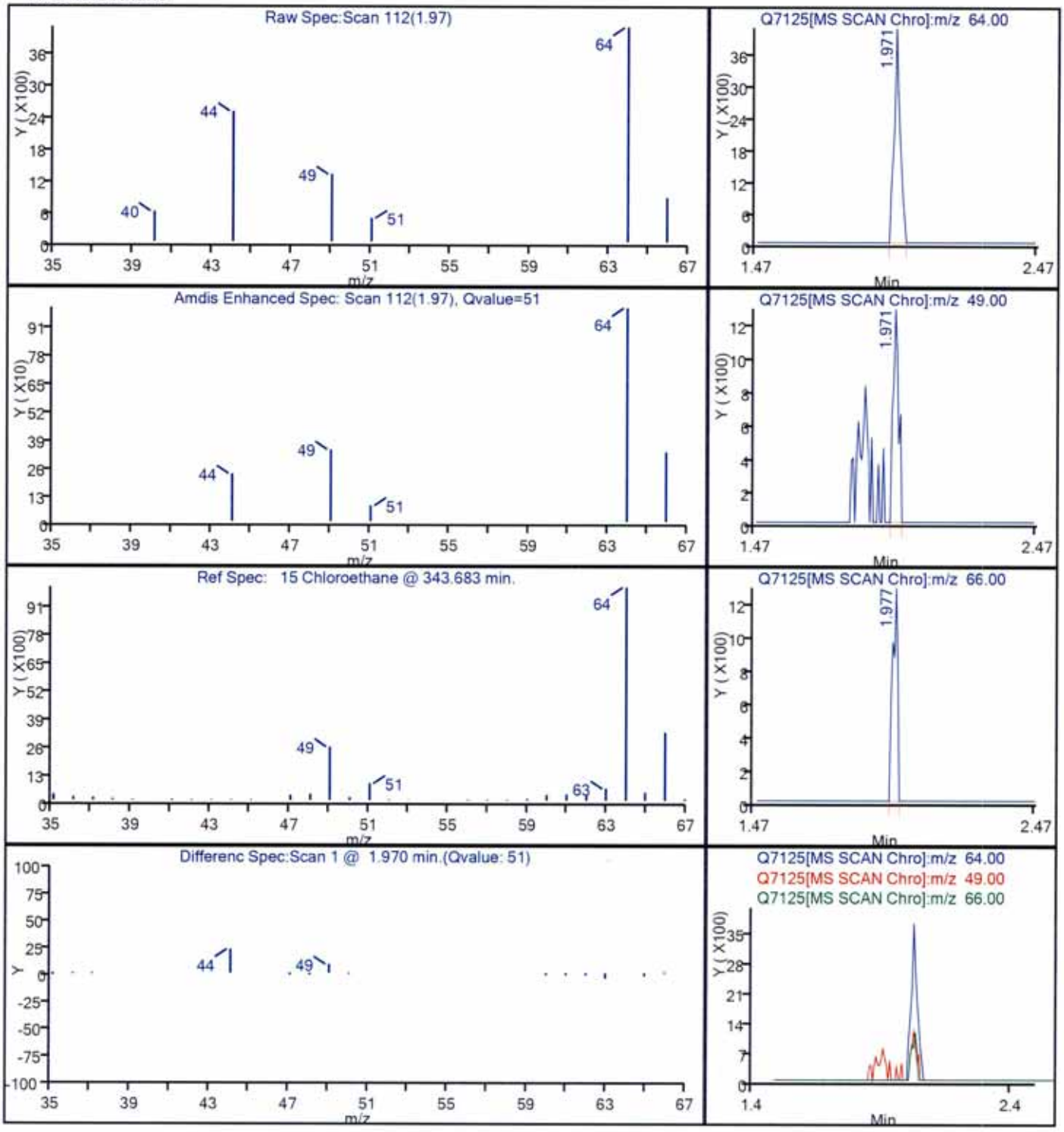
Report Date: 15-Apr-2013 17:07:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7125.D

Injection Date:	15-Apr-2013 16:43:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-06D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	17
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

15 Chloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-07S-04/13 | Lab Sample ID: 480-35891-3

Matrix: Water | Lab File ID: Q7126.D

Analysis Method: 8260B | Date Collected: 04/09/2013 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 17:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	1.2		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-07S-04/13 Lab Sample ID: 480-35891-3

Matrix: Water Lab File ID: Q7126.D

Analysis Method: 8260B Date Collected: 04/09/2013 11:05

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7126.D		
Lims ID:	480-35891-A-3	Client ID:	MW-07S-04/13
Inject. Date:	15-Apr-2013 17:10:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-35891-A-3		
Misc. Info.:	480-0020599-018		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	18
Lims Batch ID:	112867	Lims Sample ID:	18
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 18:11:57	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK022		
First Level Reviewer: cwiklinc		Date:	15-Apr-2013 20:38:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.014	5.012	0.002	94	493897	25.0	
* 2 Chlorobenzene-d5	82	7.204	7.202	0.002	84	235328	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.066	9.063	0.003	94	234950	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.704	4.702	0.002	86	76875	26.6	
$ 5 Toluene-d8 (Surr)	98	6.091	6.095	-0.004	93	549754	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.129	8.133	-0.004	92	173743	23.3	
10 Dichlorodifluoromethane	85		1.362					
12 Chloromethane	50		1.508					9
13 Vinyl chloride	62		1.599					
14 Bromomethane	94		1.879					
15 Chloroethane	64		1.958					
17 Trichlorofluoromethane	101		2.189					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
22 1,1-Dichloroethene	96		2.657					
23 Acetone	43		2.749					
26 Carbon disulfide	76		2.834					
27 Methyl acetate	43		3.010					
30 Methylene Chloride	84		3.095					
32 Methyl tert-butyl ether	73		3.296					
34 trans-1,2-Dichloroethene	96		3.302					
39 1,1-Dichloroethane	63	3.639	3.643	-0.004	39	13858	1.15	
45 cis-1,2-Dichloroethene	96		4.093					9
43 2-Butanone (MEK)	43		4.111					
50 Chloroform	83		4.337					
51 1,1,1-Trichloroethane	97		4.452					
52 Cyclohexane	56		4.470					
55 Carbon tetrachloride	117		4.568					
57 Benzene	78		4.726					
58 1,2-Dichloroethane	62		4.756					
62 Trichloroethene	95		5.200					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
68 Dichlorobromomethane	83		5.590					
72 cis-1,3-Dichloropropene	75		5.906					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					
77 trans-1,3-Dichloropropene	75		6.326					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
84 Ethylene Dibromide	107		6.861					
87 Chlorobenzene	112		7.226					
88 Ethylbenzene	91		7.293					
90 m-Xylene & p-Xylene	106		7.384					
91 o-Xylene	106		7.701					
92 Styrene	104		7.719					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					
97 1,1,2,2-Tetrachloroethane	83		8.260					
111 1,3-Dichlorobenzene	146		9.009					
113 1,4-Dichlorobenzene	146		9.082					
116 1,2-Dichlorobenzene	146		9.392					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

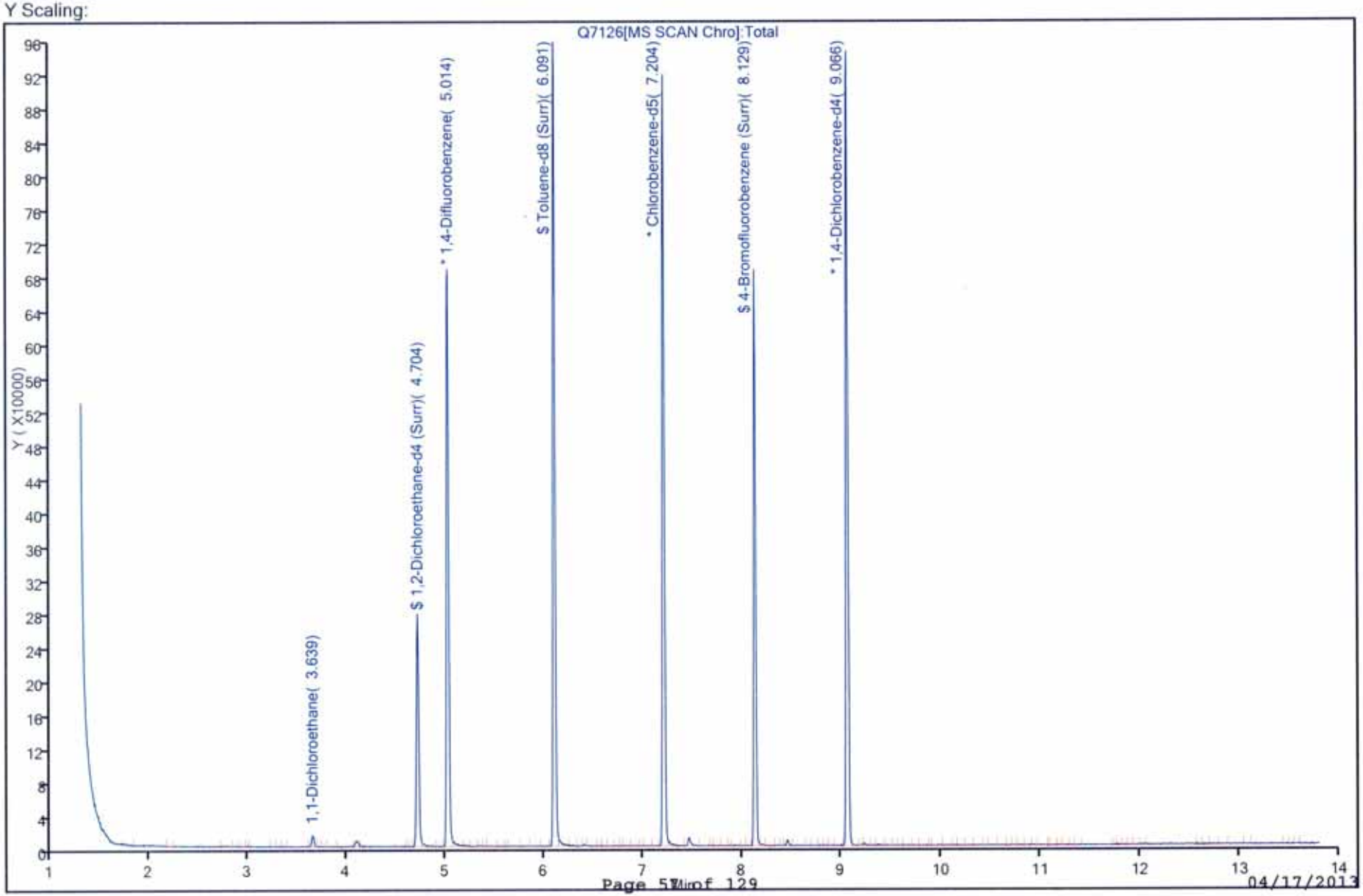
Report Date: 15-Apr-2013 20:38:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7126.D

Injection Date:	15-Apr-2013 17:10:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	18
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

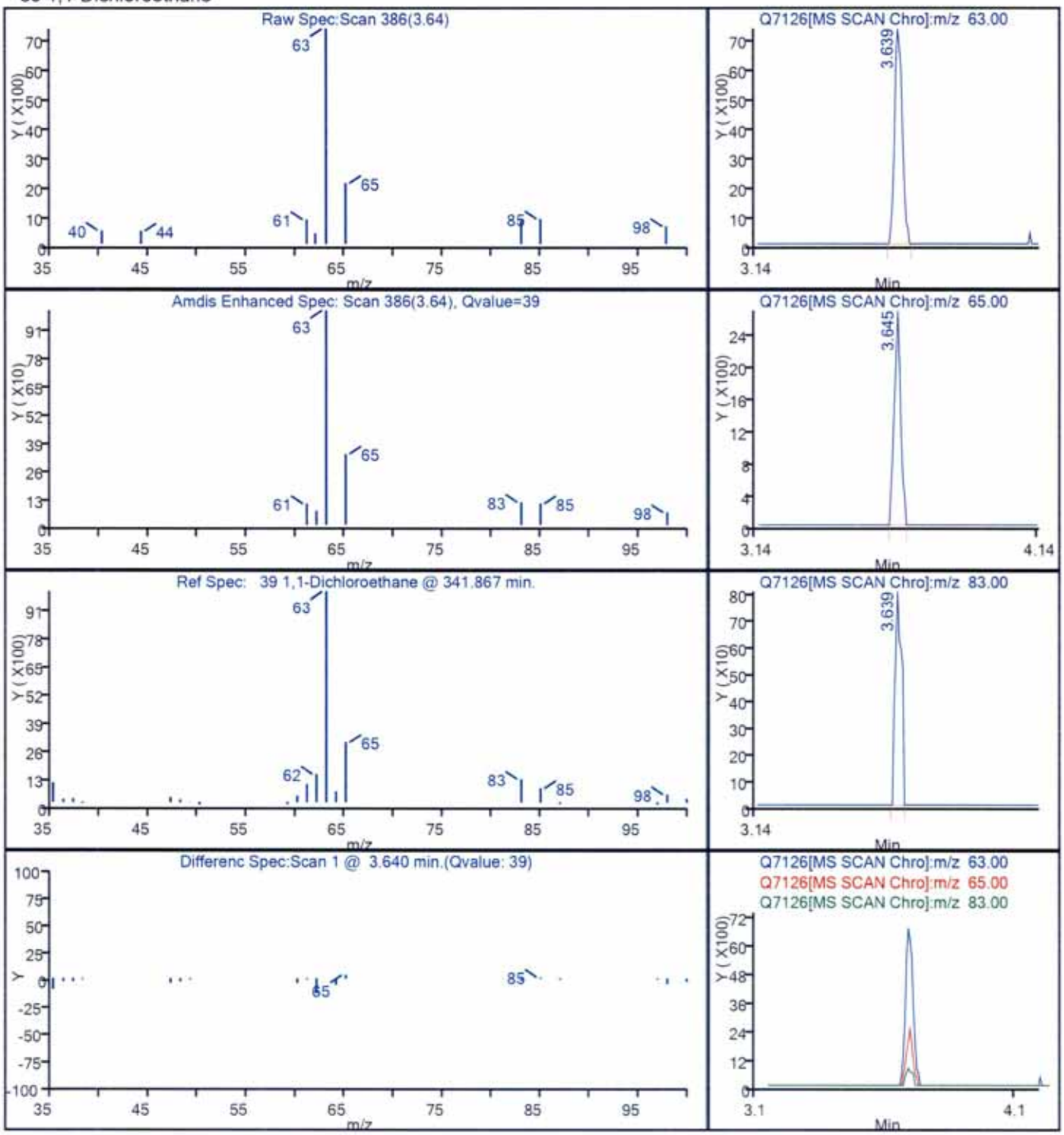
Report Date: 15-Apr-2013 20:38:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7126.D

Injection Date:	15-Apr-2013 17:10:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07S-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	18
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

39 1,1-Dichloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-07D-04/13 | Lab Sample ID: 480-35891-4

Matrix: Water | Lab File ID: Q7127.D

Analysis Method: 8260B | Date Collected: 04/09/2013 09:59

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 17:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: MW-07D-04/13 Lab Sample ID: 480-35891-4

Matrix: Water Lab File ID: Q7127.D

Analysis Method: 8260B Date Collected: 04/09/2013 09:59

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 17:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
2037-26-5	Toluene-d8 (Surr)	97		71-126
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120

Report Date: 16-Apr-2013 01:00:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7127.D		
Lims ID:	480-35891-A-4	Client ID:	MW-07D-04/13
Inject. Date:	15-Apr-2013 17:38:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-35891-A-4		
Misc. Info.:	480-0020599-019		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	19
Lims Batch ID:	112867	Lims Sample ID:	19
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 19:07:03	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: quirkp Date: 16-Apr-2013 01:00:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.011	5.012	-0.001	94	517041	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.202	-0.001	84	233615	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.063	0.0	95	231407	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.702	0.005	94	78473	25.9	
$ 5 Toluene-d8 (Surr)	98	6.094	6.095	-0.001	94	553939	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.132	8.133	-0.001	94	175667	23.8	
10 Dichlorodifluoromethane	85		1.362					
12 Chloromethane	50		1.508					
13 Vinyl chloride	62		1.599					
14 Bromomethane	94		1.879					
15 Chloroethane	64		1.958					
17 Trichlorofluoromethane	101		2.189					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
22 1,1-Dichloroethene	96		2.657					
23 Acetone	43		2.749					
26 Carbon disulfide	76		2.834					
27 Methyl acetate	43		3.010					
30 Methylene Chloride	84		3.095					
32 Methyl tert-butyl ether	73		3.296					
34 trans-1,2-Dichloroethene	96		3.302					
39 1,1-Dichloroethane	63		3.643					
45 cis-1,2-Dichloroethene	96		4.093					
43 2-Butanone (MEK)	43		4.111					9
50 Chloroform	83		4.337					
51 1,1,1-Trichloroethane	97		4.452					
52 Cyclohexane	56		4.470					
55 Carbon tetrachloride	117		4.568					
57 Benzene	78		4.726					
58 1,2-Dichloroethane	62		4.756					
62 Trichloroethene	95		5.200					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
68 Dichlorobromomethane	83		5.590					
72 cis-1,3-Dichloropropene	75		5.906					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					
77 trans-1,3-Dichloropropene	75		6.326					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
84 Ethylene Dibromide	107		6.861					
87 Chlorobenzene	112		7.226					
88 Ethylbenzene	91		7.293					
90 m-Xylene & p-Xylene	106		7.384					
91 o-Xylene	106		7.701					
92 Styrene	104		7.719					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					
97 1,1,2,2-Tetrachloroethane	83		8.260					
111 1,3-Dichlorobenzene	146		9.009					
113 1,4-Dichlorobenzene	146		9.082					
116 1,2-Dichlorobenzene	146		9.392					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

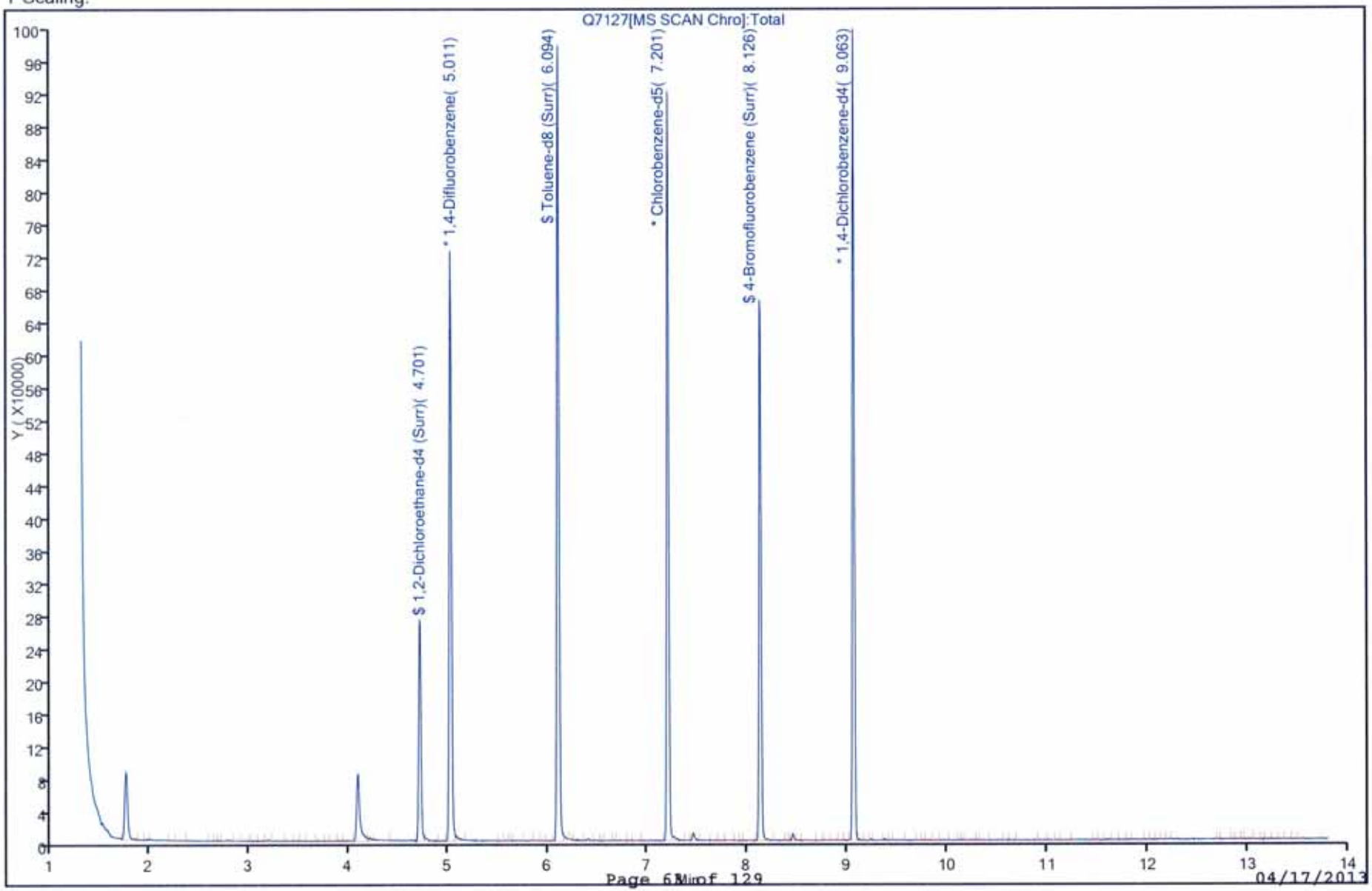
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 16-Apr-2013 01:00:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7127.D		
Injection Date:	15-Apr-2013 17:38:30	Limit Group:	MV - 8260B ICAL
Client ID:	MW-07D-04/13	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	19
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-35891-5

Matrix: Water Lab File ID: Q7128.D

Analysis Method: 8260B Date Collected: 04/09/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 18:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-35891-5

Matrix: Water Lab File ID: Q7128.D

Analysis Method: 8260B Date Collected: 04/09/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/15/2013 18:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 112867 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		66-137
2037-26-5	Toluene-d8 (Surr)	98		71-126
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7128.D		
Lims ID:	480-35891-A-5	Client ID:	TRIP BLANK
Inject. Date:	15-Apr-2013 18:05:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-35891-A-5		
Misc. Info.:	480-0020599-020		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	20
Lims Batch ID:	112867	Lims Sample ID:	20
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 19:07:03	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		
First Level Reviewer: quirkp		Date:	16-Apr-2013 01:01:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.012	5.012	0.0	94	507985	25.0	
* 2 Chlorobenzene-d5	82	7.202	7.202	0.0	86	234072	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.064	9.063	0.001	94	237306	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.702	4.702	0.0	87	79558	26.7	
$ 5 Toluene-d8 (Surr)	98	6.095	6.095	0.0	93	558624	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.127	8.133	-0.006	91	176160	23.8	
10 Dichlorodifluoromethane	85		1.362					
12 Chloromethane	50		1.508					
13 Vinyl chloride	62		1.599					
14 Bromomethane	94		1.879					
15 Chloroethane	64		1.958					
17 Trichlorofluoromethane	101		2.189					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
22 1,1-Dichloroethene	96		2.657					
23 Acetone	43		2.749					
26 Carbon disulfide	76		2.834					
27 Methyl acetate	43		3.010					
30 Methylene Chloride	84		3.095					9
32 Methyl tert-butyl ether	73		3.296					
34 trans-1,2-Dichloroethene	96		3.302					
39 1,1-Dichloroethane	63		3.643					
45 cis-1,2-Dichloroethene	96		4.093					
43 2-Butanone (MEK)	43		4.111					9
50 Chloroform	83		4.337					
51 1,1,1-Trichloroethane	97		4.452					
52 Cyclohexane	56		4.470					
55 Carbon tetrachloride	117		4.568					
57 Benzene	78		4.726					
58 1,2-Dichloroethane	62		4.756					
62 Trichloroethene	95		5.200					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
68 Dichlorobromomethane	83		5.590					
72 cis-1,3-Dichloropropene	75		5.906					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					
77 trans-1,3-Dichloropropene	75		6.326					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
84 Ethylene Dibromide	107		6.861					
87 Chlorobenzene	112		7.226					
88 Ethylbenzene	91		7.293					
90 m-Xylene & p-Xylene	106		7.384					
91 o-Xylene	106		7.701					
92 Styrene	104		7.719					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					
97 1,1,2,2-Tetrachloroethane	83		8.260					
111 1,3-Dichlorobenzene	146		9.009					
113 1,4-Dichlorobenzene	146		9.082					
116 1,2-Dichlorobenzene	146		9.392					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

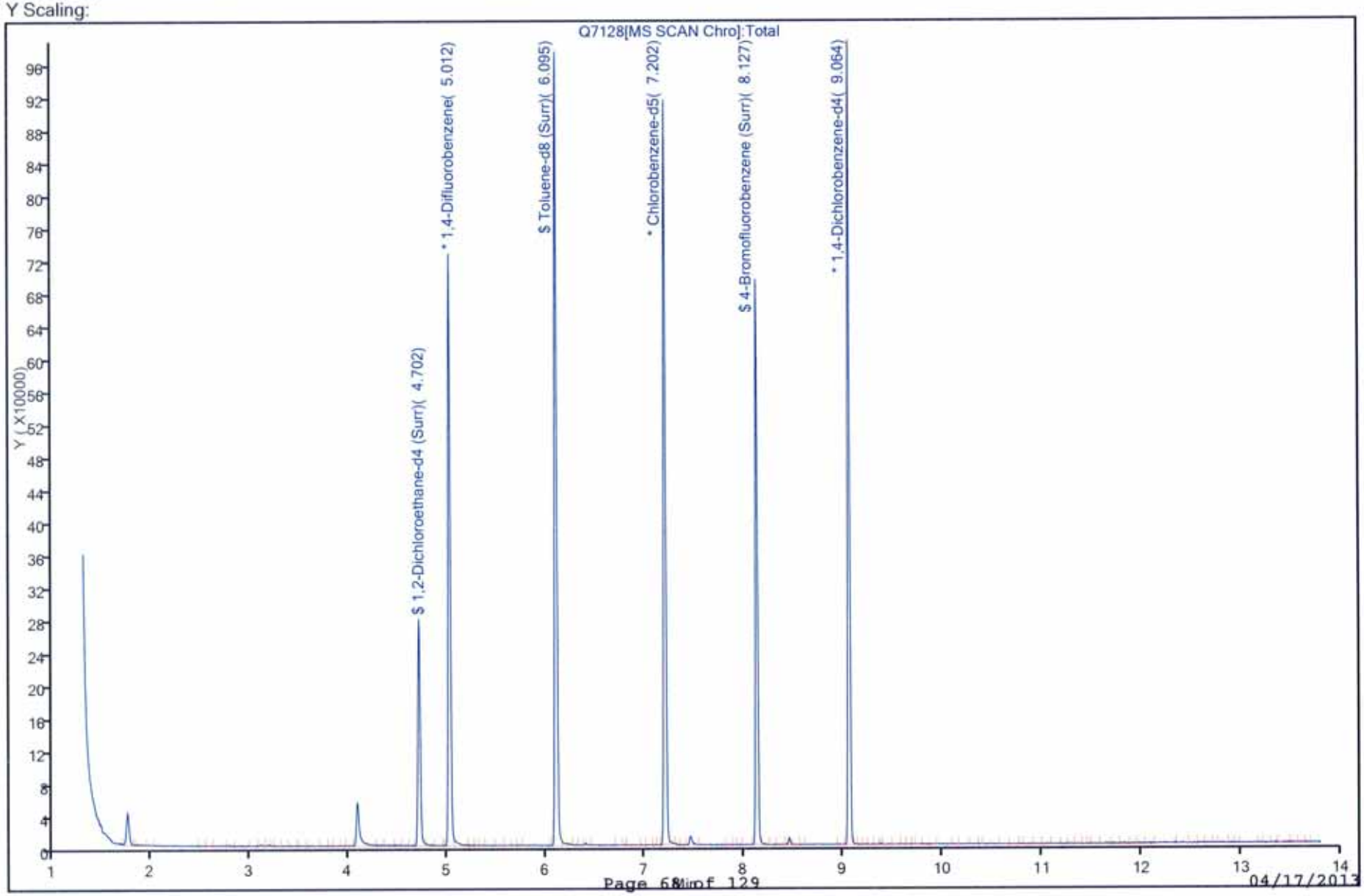
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 16-Apr-2013 01:01:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7128.D		
Injection Date:	15-Apr-2013 18:05:30	Limit Group:	MV - 8260B ICAL
Client ID:	TRIP BLANK	Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	20
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-112223/2	Q6993.D
Level 2	IC 480-112223/3	Q6994.D
Level 3	IC 480-112223/4	Q6995.D
Level 4	ICIS 480-112223/5	Q6996.D
Level 5	IC 480-112223/6	Q6997.D
Level 6	IC 480-112223/7	Q6998.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3260 0.3521	0.2988	0.3426	0.3215	0.3535	Ave		0.3324				6.4		15.0			
Chloromethane	0.5110 0.5033	0.4464	0.4754	0.4964	0.4963	Ave		0.4881			0.1000	4.8		15.0			
Vinyl chloride	0.2851 0.3049	0.2715	0.2978	0.2935	0.3107	Ave		0.2939				4.8		30.0			
Bromomethane	0.0506 0.1054	0.0531	0.0716	0.0794	0.0900	Lin	-0.375	0.1063							0.9940		0.9900
Chloroethane	0.0892 0.1187	0.0955	0.0977	0.1022	0.1151	Ave		0.1031				11.0		15.0			
Trichlorofluoromethane	0.3911 0.4484	0.3850	0.3842	0.4149	0.4424	Ave		0.4110				7.0		15.0			
Acrolein	0.0582 0.0605	0.0537	0.0589	0.0595	0.0624	Ave		0.0589				5.0		15.0			
1,1,2-Trichlorotrifluoroethane	0.2778 0.2673	0.2236	0.2700	0.2691	0.2775	Ave		0.2642				7.7		15.0			
1,1-Dichloroethene	0.2896 0.2849	0.2703	0.3017	0.2847	0.2907	Ave		0.2870				3.6		30.0			
Acetone	0.2900 0.1176	0.1300	0.1322	0.1190	0.1199	Lin1	0.7892	0.1154							0.9990		0.9900
Iodomethane	0.1360 0.3880	0.1967	0.2529	0.3113	0.3670	Lin1	-0.425	0.3725							0.9900		0.9900
Carbon disulfide	0.8898 0.9047	0.7568	0.8615	0.8780	0.9253	Ave		0.8693				6.8		15.0			
Acetonitrile	0.0292 0.0274	0.0274	0.0288	0.0287	0.0284	Ave		0.0283				2.7		15.0			
Methyl acetate	0.5101 0.4807	0.4938	0.4846	0.4920	0.4895	Ave		0.4918				2.1		15.0			
Methylene Chloride	0.4778 0.3450	0.3466	0.3729	0.3421	0.3559	Ave		0.3734				14.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl tert-butyl ether	0.8693 0.9504	0.8535	0.9379	0.9404	0.9718	Ave		0.9205				5.2		15.0			
trans-1,2-Dichloroethene	0.3383 0.3020	0.3128	0.3398	0.3208	0.3218	Ave		0.3226				4.5		15.0			
Acrylonitrile	0.1481 0.1419	0.1410	0.1557	0.1535	0.1512	Ave		0.1486				4.1		15.0			
1,1-Dichloroethane	0.6178 0.6265	0.5578	0.6227	0.6047	0.6171	Ave		0.6078			0.1000	4.2		15.0			
Vinyl acetate	0.5611 0.6322	0.5650	0.6554	0.6449	0.6628	Ave		0.6202				7.3		15.0			
2,2-Dichloropropane	0.3086 0.4247	0.3094	0.3634	0.3796	0.4118	Ave		0.3662				14.0		15.0			
cis-1,2-Dichloroethene	0.4091 0.3573	0.3384	0.3719	0.3649	0.3699	Ave		0.3686				6.3		15.0			
2-Butanone (MEK)	0.2076 0.1868	0.1751	0.1928	0.1999	0.1991	Ave		0.1935				5.9		15.0			
Bromochloromethane	0.1905 0.1947	0.1803	0.1961	0.1941	0.1970	Ave		0.1921				3.2		15.0			
Tetrahydrofuran	0.1297 0.1252	0.1176	0.1283	0.1314	0.1303	Ave		0.1271				4.0		15.0			
Chloroform	0.5896 0.5328	0.5126	0.5464	0.5349	0.5346	Ave		0.5418				4.8		30.0			
1,1,1-Trichloroethane	0.4056 0.4561	0.3756	0.4310	0.4297	0.4562	Ave		0.4257				7.3		15.0			
Cyclohexane	0.5683 0.5645	0.4976	0.5712	0.5850	0.5990	Ave		0.5643				6.2		15.0			
Carbon tetrachloride	0.3270 0.4058	0.3142	0.3698	0.3672	0.4021	Ave		0.3644				10.0		15.0			
1,1-Dichloropropene	0.4573 0.4243	0.4143	0.4567	0.4456	0.4497	Ave		0.4413				4.1		15.0			
Benzene	1.4112 1.2641	1.2628	1.3416	1.3123	1.3122	Ave		1.3174				4.2		15.0			
1,2-Dichloroethane	0.4591 0.4244	0.4108	0.4396	0.4183	0.4259	Ave		0.4297				4.0		15.0			
Trichloroethene	0.3415 0.3330	0.3073	0.3318	0.3347	0.3386	Ave		0.3311				3.7		15.0			
Methylcyclohexane	0.4767 0.4958	0.4220	0.4730	0.5049	0.5207	Ave		0.4822				7.1		15.0			
1,2-Dichloropropane	0.3734 0.3569	0.3576	0.3781	0.3656	0.3648	Ave		0.3661				2.3		30.0			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	0.2246 0.2117	0.1972	0.2185	0.2106	0.2135	Ave		0.2127				4.3		15.0			
Bromodichloromethane	0.3764 0.4403	0.3777	0.4117	0.4194	0.4381	Ave		0.4106				6.9		15.0			
2-Chloroethyl vinyl ether	0.2473 0.2209	0.2351	0.2633	0.2609	0.2493	Ave		0.2461				6.5		15.0			
cis-1,3-Dichloropropene	0.5122 0.5591	0.4794	0.5405	0.5492	0.5564	Ave		0.5328				5.8		15.0			
4-Methyl-2-pentanone (MIBK)	0.8431 0.8845	0.8722	0.9128	0.9480	0.9374	Ave		0.8997				4.5		15.0			
Toluene	1.9910 1.8713	1.7384	1.8698	1.8786	1.9035	Ave		1.8754				4.3		30.0			
trans-1,3-Dichloropropene	0.7748 1.2376	0.8799	1.0199	1.1283	1.1846	Lin1	-0.755	1.2100							0.9980		0.9900
Ethyl methacrylate	0.8928 1.1324	0.9310	1.0170	1.1075	1.1495	Ave		1.0384				10.0		15.0			
1,1,2-Trichloroethane	0.5654 0.6102	0.5706	0.5848	0.5966	0.6077	Ave		0.5892				3.2		15.0			
Tetrachloroethene	0.7387 0.8710	0.7799	0.8084	0.8253	0.8678	Ave		0.8152				6.3		15.0			
1,3-Dichloropropane	1.2471 1.2789	1.2046	1.2883	1.2896	1.2730	Ave		1.2636				2.6		15.0			
2-Hexanone	0.5786 0.6311	0.5890	0.6498	0.6859	0.6607	Ave		0.6325				6.6		15.0			
Chlorodibromomethane	0.6406 0.9231	0.6729	0.7820	0.8304	0.8932	Ave		0.7904				15.0		15.0			
1,2-Dibromoethane (EDB)	0.7240 0.8585	0.7336	0.7806	0.8344	0.8418	Ave		0.7955				7.3		15.0			
Chlorobenzene	2.1960 2.2254	2.0587	2.2255	2.2266	2.2289	Ave		2.1935			0.3000	3.1		15.0			
1,1,1,2-Tetrachloroethane	0.6465 0.7683	0.6391	0.7000	0.7520	0.7603	Ave		0.7110				8.2		15.0			
Ethylbenzene	3.6747 3.1851	3.2150	3.4551	3.4314	3.3908	Ave		3.3920				5.3		30.0			
m,p-Xylene	1.4444 1.2992	1.3582	1.4429	1.4143	1.3843	Ave		1.3906				4.0		15.0			
o-Xylene	1.4325 1.3822	1.3095	1.4241	1.4435	1.4373	Ave		1.4048				3.7		15.0			
Styrene	2.2040 2.3165	2.2272	2.4248	2.4298	2.4247	Ave		2.3513				3.7		15.0			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.4053 0.6456	0.4454	0.5007	0.5559	0.5994	Lin1	-0.418	0.6208			0.1000				0.9950		0.9900
Isopropylbenzene	3.4790 3.4250	3.2800	3.4080	3.4362	3.5199	Ave		3.4247				2.4		15.0			
Bromobenzene	0.9787 0.9287	0.8740	0.9264	0.9197	0.9331	Ave		0.9268				3.6		15.0			
1,1,2,2-Tetrachloroethane	0.9331 0.9037	0.9383	0.9678	0.9704	0.9665	Ave		0.9466			0.3000	2.8		15.0			
1,2,3-Trichloropropane	0.3024 0.2767	0.2754	0.3017	0.2942	0.2914	Ave		0.2903				4.1		15.0			
trans-1,4-Dichloro-2-butene	0.2142 0.2278	0.2153	0.2367	0.2496	0.2453	Ave		0.2315				6.5		15.0			
N-Propylbenzene	4.0575 3.4777	3.7177	3.9760	3.8517	3.8152	Ave		3.8160				5.4		15.0			
2-Chlorotoluene	0.8628 0.8063	0.7826	0.8316	0.8236	0.8366	Ave		0.8239				3.3		15.0			
1,3,5-Trimethylbenzene	2.8324 2.6403	2.5668	2.7545	2.7420	2.7525	Ave		2.7147				3.5		15.0			
4-Chlorotoluene	0.8438 0.8236	0.8272	0.8596	0.8601	0.8529	Ave		0.8445				1.9		15.0			
tert-Butylbenzene	0.6561 0.6361	0.5929	0.6287	0.6436	0.6545	Ave		0.6353				3.7		15.0			
1,2,4-Trimethylbenzene	2.8365 2.6810	2.6170	2.8264	2.7372	2.7703	Ave		2.7447				3.1		15.0			
sec-Butylbenzene	3.4093 3.2990	3.1459	3.3845	3.3520	3.3999	Ave		3.3318				3.0		15.0			
1,3-Dichlorobenzene	1.8027 1.5427	1.5688	1.7282	1.6516	1.6242	Ave		1.6530				5.9		15.0			
4-Isopropyltoluene	2.8062 2.5516	2.6456	2.7970	2.7362	2.7282	Ave		2.7108				3.6		15.0			
1,4-Dichlorobenzene	1.7818 1.6937	1.6313	1.7165	1.6867	1.7152	Ave		1.7042				2.9		15.0			
n-Butylbenzene	2.2019 2.2638	2.0980	2.2673	2.2498	2.3275	Ave		2.2347				3.5		15.0			
1,2-Dichlorobenzene	1.7125 1.6282	1.5407	1.6721	1.6315	1.6406	Ave		1.6376				3.5		15.0			
1,2-Dibromo-3-Chloropropane	0.1389 0.1665	0.1219	0.1455	0.1528	0.1629	Ave		0.1481				11.0		15.0			
1,2,4-Trichlorobenzene	0.9183 0.9909	0.8394	1.0351	0.9354	0.9711	Ave		0.9484				7.1		15.0			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2674 0.3424	0.2988	0.3379	0.3011	0.3367	Ave		0.3141				9.5		15.0			
Naphthalene	1.9899 2.3201	1.9147	2.4795	2.1421	2.2853	Ave		2.1886				9.8		15.0			
1,2,3-Trichlorobenzene	0.6082 0.7503	0.6140	0.9252	0.7108	0.7296	Lin1	-0.109	0.7480							0.9950		0.9900
1,2-Dichloroethane-d4 (Surr)	0.1515 0.1459	0.1434	0.1496	0.1417	0.1471	Ave		0.1465				2.5		15.0			
Toluene-d8 (Surr)	2.4208 2.5058	2.4359	2.4290	2.4168	2.4640	Ave		2.4454				1.4		15.0			
4-Bromofluorobenzene (Surr)	0.7531 0.8462	0.7593	0.7892	0.7929	0.8042	Ave		0.7908				4.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-112223/2	Q6993.D
Level 2	IC 480-112223/3	Q6994.D
Level 3	IC 480-112223/4	Q6995.D
Level 4	ICIS 480-112223/5	Q6996.D
Level 5	IC 480-112223/6	Q6997.D
Level 6	IC 480-112223/7	Q6998.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFB	Ave	9850 903996	43841	94749	223689	478991	1.00 100	5.00	10.0	25.0	50.0
Chloromethane	DFB	Ave	15438 1292024	65509	131494	345376	672414	1.00 100	5.00	10.0	25.0	50.0
Vinyl chloride	DFB	Ave	8614 782882	39842	82378	204178	420890	1.00 100	5.00	10.0	25.0	50.0
Bromomethane	DFB	Lin	1530 270652	7796	19794	55218	121973	1.00 100	5.00	10.0	25.0	50.0
Chloroethane	DFB	Ave	2695 304770	14010	27010	71131	156006	1.00 100	5.00	10.0	25.0	50.0
Trichlorofluoromethane	DFB	Ave	11817 1151261	56494	106256	288642	599415	1.00 100	5.00	10.0	25.0	50.0
Acrolein	DFB	Ave	35164 3105352	157522	326072	828111	1690275	20.0 2000	100	200	500	1000
1,1,2-Trichlorotrifluoroethane	DFB	Ave	8394 686217	32807	74682	187248	375950	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloroethene	DFB	Ave	8748 731363	39664	83433	198048	393853	1.00 100	5.00	10.0	25.0	50.0
Acetone	DFB	Lin1	43811 1509635	95417	182831	413799	812201	5.00 500	25.0	50.0	125	250
Iodomethane	DFB	Lin1	4110 996203	28859	69939	216599	497247	1.00 100	5.00	10.0	25.0	50.0
Carbon disulfide	DFB	Ave	26882 2322641	111055	238279	610807	1253620	1.00 100	5.00	10.0	25.0	50.0
Acetonitrile	DFB	Ave	35240 2811517	160558	318691	798403	1540985	40.0 4000	200	400	1000	2000
Methyl acetate	DFB	Ave	15410 1234185	72459	134018	342263	663273	1.00 100	5.00	10.0	25.0	50.0
Methylene Chloride	DFB	Ave	14436 885690	50866	103126	237994	482179	1.00 100	5.00	10.0	25.0	50.0
Methyl tert-butyl ether	DFB	Ave	26263 2439934	125246	259390	654214	1316652	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	DFB	Ave	10219 775420	45904	93988	223187	435982	1.00 100	5.00	10.0	25.0	50.0
Acrylonitrile	DFB	Ave	22367 1821053	103454	215331	533858	1024616	5.00 500	25.0	50.0	125	250
1,1-Dichloroethane	DFB	Ave	18663 1608459	81851	172224	420674	836121	1.00 100	5.00	10.0	25.0	50.0
Vinyl acetate	DFB	Ave	84762 8115478	414560	906301	2243274	4490275	5.00 500	25.0	50.0	125	250
2,2-Dichloropropane	DFB	Ave	9323 1090331	45397	100502	264072	557873	1.00 100	5.00	10.0	25.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	12360 917164	49656	102858	253833	501146	1.00 100	5.00	10.0	25.0	50.0
2-Butanone (MEK)	DFB	Ave	31358 2398128	128492	266573	695218	1348696	5.00 500	25.0	50.0	125	250
Bromochloromethane	DFB	Ave	5755 499780	26458	54234	135004	266913	1.00 100	5.00	10.0	25.0	50.0
Tetrahydrofuran	DFB	Ave	19598 1606917	86283	177441	457104	882950	5.00 500	25.0	50.0	125	250
Chloroform	DFB	Ave	17812 1367813	75228	151119	372112	724304	1.00 100	5.00	10.0	25.0	50.0
1,1,1-Trichloroethane	DFB	Ave	12254 1170860	55118	119211	298975	618124	1.00 100	5.00	10.0	25.0	50.0
Cyclohexane	DFB	Ave	17170 1449261	73024	157981	406970	811573	1.00 100	5.00	10.0	25.0	50.0
Carbon tetrachloride	DFB	Ave	9880 1041815	46110	102287	255446	544792	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloropropene	DFB	Ave	13817 1089200	60803	126304	309971	609223	1.00 100	5.00	10.0	25.0	50.0
Benzene	DFB	Ave	42633 3245194	185306	371058	912997	1777853	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane	DFB	Ave	13871 1089624	60289	121583	291001	577081	1.00 100	5.00	10.0	25.0	50.0
Trichloroethene	DFB	Ave	10317 854879	45090	91773	232828	458775	1.00 100	5.00	10.0	25.0	50.0
Methylcyclohexane	DFB	Ave	14403 1272835	61931	130811	351249	705531	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloropropane	DFB	Ave	11282 916185	52482	104564	254351	494242	1.00 100	5.00	10.0	25.0	50.0
Dibromomethane	DFB	Ave	6784 543466	28941	60428	146533	289263	1.00 100	5.00	10.0	25.0	50.0
Bromodichloromethane	DFB	Ave	11372 1130359	55421	113875	291804	593625	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	DFB	Ave	37356 2835586	172532	364136	907559	1688735	5.00 500	25.0	50.0	125	250
cis-1,3-Dichloropropene	DFB	Ave	15475 1435296	70354	149490	382096	753891	1.00 100	5.00	10.0	25.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	58670 4772760	288676	575419	1441645	2748220	5.00 500	25.0	50.0	125	250
Toluene	CBZ	Ave	27710 2019557	115079	235752	571382	1116087	1.00 100	5.00	10.0	25.0	50.0
trans-1,3-Dichloropropene	CBZ	Lin1	10783 1335657	58246	128590	343176	694571	1.00 100	5.00	10.0	25.0	50.0
Ethyl methacrylate	CBZ	Ave	12426 1222077	61633	128220	336844	674029	1.00 100	5.00	10.0	25.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	7869 658582	37772	73731	181465	356316	1.00 100	5.00	10.0	25.0	50.0
Tetrachloroethene	CBZ	Ave	10281 939994	51627	101930	251002	508821	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichloropropane	CBZ	Ave	17357 1380175	79739	162425	392226	746426	1.00 100	5.00	10.0	25.0	50.0
2-Hexanone	CBZ	Ave	40266 3405524	194938	409664	1043021	1936923	5.00 500	25.0	50.0	125	250
Chlorodibromomethane	CBZ	Ave	8916 996266	44542	98591	252567	523720	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromoethane (EDB)	CBZ	Ave	10076 926503	48564	98419	253795	493604	1.00 100	5.00	10.0	25.0	50.0
Chlorobenzene	CBZ	Ave	30562 2401666	136282	280598	677202	1306905	1.00 100	5.00	10.0	25.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	8998 829146	42305	88252	228708	445801	1.00 100	5.00	10.0	25.0	50.0
Ethylbenzene	CBZ	Ave	51142 3437412	212823	435622	1043659	1988210	1.00 100	5.00	10.0	25.0	50.0
m,p-Xylene	CBZ	Ave	40204 2804360	179825	363844	860318	1623413	2.00 200	10.0	20.0	50.0	100
o-Xylene	CBZ	Ave	19937 1491709	86685	179557	439026	842742	1.00 100	5.00	10.0	25.0	50.0
Styrene	CBZ	Ave	31798 2500059	147434	305718	739010	1421712	1.00 100	5.00	10.0	25.0	50.0
Bromoform	CBZ	Lin1	5641 696704	29487	63134	169072	351429	1.00 100	5.00	10.0	25.0	50.0
Isopropylbenzene	DCB	Ave	48396 3853807	220526	443134	1076825	2123248	1.00 100	5.00	10.0	25.0	50.0
Bromobenzene	DCB	Ave	13615 1045014	58761	120452	288224	562878	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	12980 1016796	63082	125841	304091	583016	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichloropropane	DCB	Ave	4207 311349	18514	39234	92207	175793	1.00 100	5.00	10.0	25.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	14900 1281682	72360	153876	391093	739843	5.00 500	25.0	50.0	125	250
N-Propylbenzene	DCB	Ave	56443 3913109	249953	516985	1207048	2301386	1.00 100	5.00	10.0	25.0	50.0
2-Chlorotoluene	DCB	Ave	12002 907256	52616	108136	258114	504669	1.00 100	5.00	10.0	25.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	39401 2970867	172572	358152	859279	1660348	1.00 100	5.00	10.0	25.0	50.0
4-Chlorotoluene	DCB	Ave	11738 926734	55615	111770	269539	514510	1.00 100	5.00	10.0	25.0	50.0
tert-Butylbenzene	DCB	Ave	9127 715706	39863	81745	201700	394810	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	39458 3016644	175950	367508	857789	1671086	1.00 100	5.00	10.0	25.0	50.0
sec-Butylbenzene	DCB	Ave	47426 3711981	211512	440069	1050442	2050899	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichlorobenzene	DCB	Ave	25077 1735852	105474	224709	517582	979771	1.00 100	5.00	10.0	25.0	50.0
4-Isopropyltoluene	DCB	Ave	39036 2871065	177874	363688	857458	1645664	1.00 100	5.00	10.0	25.0	50.0
1,4-Dichlorobenzene	DCB	Ave	24786 1905731	109675	223187	528581	1034614	1.00 100	5.00	10.0	25.0	50.0
n-Butylbenzene	DCB	Ave	30630 2547148	141056	294803	705057	1404010	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene	DCB	Ave	23823 1832047	103586	217417	511295	989666	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1932 187353	8195	18924	47886	98251	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	12775 1114993	56438	134594	293142	585775	1.00 100	5.00	10.0	25.0	50.0
Hexachlorobutadiene	DCB	Ave	3720 385224	20091	43938	94359	203129	1.00 100	5.00	10.0	25.0	50.0
Naphthalene	DCB	Ave	27681 2610516	128732	322400	671305	1378545	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichlorobenzene	DCB	Lin1	8461 844222	41279	120304	222763	440132	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	114456 93654	105198	103409	98560	99664	25.0 25.0	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1 Analy Batch No.: 112223

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:47 Calibration End Date: 04/11/2013 14:40 Calibration ID: 13093

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBZ	Ave	842271 676092	806246	765636	735067	722367	25.0 25.0	25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	262035 228306	251335	248764	241155	235775	25.0 25.0	25.0	25.0	25.0	25.0

Curve Type Legend:
Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6993.D		
Lims ID:	IC	Client ID:	
Inject. Date:	11-Apr-2013 11:47:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	IC		
Misc. Info.:	480-0020501-002		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	112223	Lims Sample ID:	2
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:28	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 16:51:28

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
*	1 1,4-Difluorobenzene	114	5.010	5.010	0.0	94	755278	25.0	
*	2 Chlorobenzene-d5	82	7.200	7.200	0.0	83	347935	25.0	
*	3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	93	347771	25.0	
$	4 1,2-Dichloroethane-d4 (Surr)	67	4.706	4.700	0.006	90	114456	25.9	
$	5 Toluene-d8 (Surr)	98	6.093	6.093	0.0	93	842271	24.7	
$	6 4-Bromofluorobenzene (Surr)	174	8.131	8.131	0.0	94	262035	23.8	
	10 Dichlorodifluoromethane	85	1.354	1.360	-0.006	67	9850	0.9808	
	12 Chloromethane	50	1.500	1.506	-0.006	82	15438	1.05	
	13 Vinyl chloride	62	1.604	1.597	0.007	42	8614	0.9701	
	14 Bromomethane	94	1.877	1.871	0.006	8	1530	4.00	
	15 Chloroethane	64	1.950	1.956	-0.006	52	2695	0.8655	
	17 Trichlorofluoromethane	101	2.188	2.187	0.001	54	11817	0.9517	
	20 Acrolein	56	2.613	2.601	0.012	90	35164	19.8	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.656	2.650	0.006	32	8394	1.05	
	22 1,1-Dichloroethene	96	2.656	2.656	0.0	86	8748	1.01	
	23 Acetone	43	2.753	2.747	0.006	93	43811	5.73	
	25 Iodomethane	142	2.784	2.790	-0.006	51	4110	1.51	
	26 Carbon disulfide	76	2.832	2.832	0.0	95	26882	1.02	
	29 Acetonitrile	40	2.997	2.990	0.007	100	35240	41.2	
	27 Methyl acetate	43	3.021	3.009	0.012	93	15410	1.04	
	30 Methylene Chloride	84	3.094	3.088	0.006	81	14436	1.28	
	32 Methyl tert-butyl ether	73	3.301	3.295	0.006	82	26263	0.9444	
	34 trans-1,2-Dichloroethene	96	3.295	3.301	-0.006	65	10219	1.05	
	33 Acrylonitrile	53	3.313	3.313	0.0	98	22367	4.98	
	39 1,1-Dichloroethane	63	3.635	3.641	-0.006	57	18663	1.02	
	37 Vinyl acetate	43	3.684	3.678	0.006	96	84762	4.52	
	44 2,2-Dichloropropane	77	4.073	4.073	0.0	69	9323	0.8426	
	45 cis-1,2-Dichloroethene	96	4.092	4.092	0.0	73	12360	1.11	
	43 2-Butanone (MEK)	43	4.122	4.104	0.018	96	31358	5.36	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.274	4.274	0.0	83	5755	0.99	
49 Tetrahydrofuran	42	4.317	4.304	0.013	89	19598	5.10	
50 Chloroform	83	4.335	4.335	0.0	85	17812	1.09	
51 1,1,1-Trichloroethane	97	4.451	4.450	0.001	75	12254	0.9528	
52 Cyclohexane	56	4.475	4.475	0.0	81	17170	1.01	
55 Carbon tetrachloride	117	4.566	4.566	0.0	57	9880	0.8975	
54 1,1-Dichloropropene	75	4.572	4.566	0.006	77	13817	1.04	
57 Benzene	78	4.724	4.724	0.0	58	42633	1.07	
58 1,2-Dichloroethane	62	4.761	4.761	0.0	61	13871	1.07	
62 Trichloroethene	95	5.205	5.199	0.006	80	10317	1.03	
64 Methylcyclohexane	83	5.315	5.314	0.0	79	14403	0.9887	
65 1,2-Dichloropropane	63	5.369	5.375	-0.006	73	11282	1.02	
67 Dibromomethane	93	5.473	5.473	0.001	75	6784	1.06	
68 Dichlorobromomethane	83	5.588	5.588	0.0	72	11372	0.9167	
69 2-Chloroethyl vinyl ether	63	5.795	5.795	0.0	88	37356	5.02	
72 cis-1,3-Dichloropropene	75	5.911	5.911	0.0	58	15475	0.9614	
73 4-Methyl-2-pentanone (MIBK)	43	6.014	6.008	0.006	94	58670	4.69	
74 Toluene	92	6.142	6.142	0.0	90	27710	1.06	
77 trans-1,3-Dichloropropene	75	6.330	6.330	0.0	69	10783	1.26	
75 Ethyl methacrylate	69	6.367	6.367	0.0	75	12426	0.8598	
79 1,1,2-Trichloroethane	83	6.470	6.470	0.0	70	7869	0.9596	
81 Tetrachloroethene	166	6.556	6.555	0.001	83	10281	0.9062	
82 1,3-Dichloropropane	76	6.592	6.598	-0.006	74	17357	0.9870	
80 2-Hexanone	43	6.641	6.634	0.007	93	40266	4.57	
83 Chlorodibromomethane	129	6.781	6.774	0.007	56	8916	0.8106	
84 Ethylene Dibromide	107	6.860	6.860	0.0	59	10076	0.9101	
87 Chlorobenzene	112	7.225	7.225	0.0	84	30562	1.00	
89 1,1,1,2-Tetrachloroethane	131	7.292	7.291	0.001	69	8998	0.9093	
88 Ethylbenzene	91	7.292	7.291	0.001	90	51142	1.08	
90 m-Xylene & p-Xylene	106	7.383	7.383	0.0	97	40204	2.08	
91 o-Xylene	106	7.699	7.699	0.0	91	19937	1.02	
92 Styrene	104	7.717	7.717	0.0	84	31798	0.9717	
95 Bromoform	173	7.894	7.894	0.0	76	5641	1.33	
94 Isopropylbenzene	105	7.985	7.985	0.0	87	48396	1.02	
101 Bromobenzene	156	8.253	8.253	0.0	85	13615	1.06	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.259	0.0	59	12980	0.9857	
100 1,2,3-Trichloropropane	110	8.295	8.295	0.0	63	4207	1.04	
98 trans-1,4-Dichloro-2-butene	53	8.295	8.295	0.0	73	14900	4.63	
99 N-Propylbenzene	91	8.314	8.313	0.001	93	56443	1.06	
103 2-Chlorotoluene	126	8.399	8.399	0.0	89	12002	1.05	
102 1,3,5-Trimethylbenzene	105	8.454	8.453	0.001	79	39401	1.04	
105 4-Chlorotoluene	126	8.490	8.490	0.0	78	11738	1.00	
106 tert-Butylbenzene	134	8.721	8.715	0.006	76	9127	1.03	
107 1,2,4-Trimethylbenzene	105	8.764	8.758	0.006	83	39458	1.03	
109 sec-Butylbenzene	105	8.892	8.898	-0.006	77	47426	1.02	
111 1,3-Dichlorobenzene	146	9.013	9.013	0.0	70	25077	1.09	
110 4-Isopropyltoluene	119	9.013	9.013	0.0	90	39036	1.04	
113 1,4-Dichlorobenzene	146	9.086	9.086	0.0	73	24786	1.05	
115 n-Butylbenzene	91	9.348	9.348	0.0	86	30630	0.9853	
116 1,2-Dichlorobenzene	146	9.397	9.390	0.006	87	23823	1.05	
117 1,2-Dibromo-3-Chloropropane	75	10.054	10.047	0.007	13	1932	0.9379	
119 1,2,4-Trichlorobenzene	180	10.717	10.716	0.001	57	12775	0.9683	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.832	10.838	-0.006	30	3720	0.8515	
121 Naphthalene	128	10.917	10.917	0.0	73	27681	0.9092	
122 1,2,3-Trichlorobenzene	180	11.112	11.112	0.0	62	8461	0.9593	
S 123 Total BTEX	1				0		6.31	
S 124 Xylenes, Total	1				0		3.10	
S 125 1,2-Dichloroethene, Total	1				0		2.16	
S 126 1,3-Dichloropropene, Total	1				0		2.23	

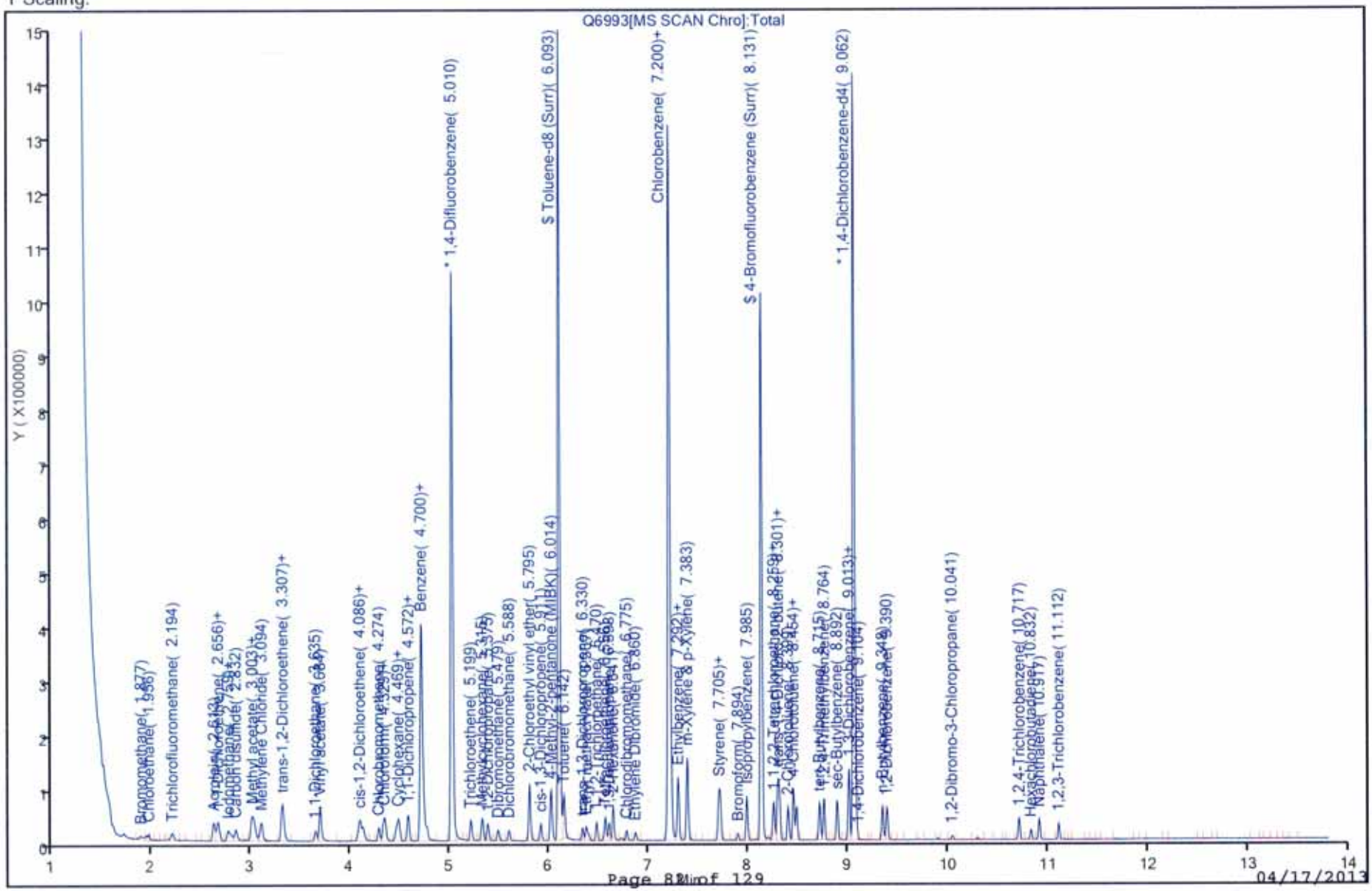
Report Date: 11-Apr-2013 16:51:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6993.D

Injection Date:	11-Apr-2013 11:47:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	2
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6994.D		
Lims ID:	IC 2	Client ID:	
Inject. Date:	11-Apr-2013 12:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	IC 2		
Misc. Info.:	480-0020501-003		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	112223	Lims Sample ID:	3
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:30	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		
First Level Reviewer: BrandtT		Date:	11-Apr-2013 16:51:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.013	5.010	0.003	93	733730	25.0	
* 2 Chlorobenzene-d5	82	7.203	7.200	0.003	83	330989	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.064	9.062	0.002	92	336166	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.702	4.700	0.002	94	105198	24.5	
$ 5 Toluene-d8 (Surr)	98	6.096	6.093	0.003	93	806246	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.127	8.131	-0.004	92	251335	24.0	
10 Dichlorodifluoromethane	85	1.357	1.360	-0.003	85	43841	4.49	
12 Chloromethane	50	1.503	1.506	-0.003	99	65509	4.57	
13 Vinyl chloride	62	1.600	1.597	0.003	87	39842	4.62	
14 Bromomethane	94	1.874	1.871	0.003	81	7796	6.03	
15 Chloroethane	64	1.953	1.956	-0.003	91	14010	4.63	
17 Trichlorofluoromethane	101	2.184	2.187	-0.003	93	56494	4.68	
20 Acrolein	56	2.604	2.601	0.003	92	157522	91.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.646	2.650	-0.004	54	32807	4.23	
22 1,1-Dichloroethene	96	2.652	2.656	-0.004	84	39664	4.71	
23 Acetone	43	2.756	2.747	0.009	99	95417	21.3	
25 Iodomethane	142	2.792	2.790	0.002	93	28859	3.78	
26 Carbon disulfide	76	2.835	2.832	0.003	98	111055	4.35	
29 Acetonitrile	40	2.993	2.990	0.003	100	160558	193.3	
27 Methyl acetate	43	3.011	3.009	0.002	97	72459	5.02	
30 Methylene Chloride	84	3.090	3.088	0.002	90	50866	4.64	
32 Methyl tert-butyl ether	73	3.297	3.295	0.002	91	125246	4.64	
34 trans-1,2-Dichloroethene	96	3.297	3.301	-0.004	91	45904	4.85	
33 Acrylonitrile	53	3.309	3.313	-0.004	98	103454	23.7	
39 1,1-Dichloroethane	63	3.638	3.641	-0.003	93	81851	4.59	
37 Vinyl acetate	43	3.680	3.678	0.002	97	414560	22.8	
44 2,2-Dichloropropane	77	4.076	4.073	0.003	83	45397	4.22	
45 cis-1,2-Dichloroethene	96	4.094	4.092	0.002	81	49656	4.59	
43 2-Butanone (MEK)	43	4.112	4.104	0.008	99	128492	22.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.277	4.274	0.003	93	26458	4.69	
49 Tetrahydrofuran	42	4.313	4.304	0.009	91	86283	23.1	
50 Chloroform	83	4.337	4.335	0.002	93	75228	4.73	
51 1,1,1-Trichloroethane	97	4.447	4.450	-0.003	94	55118	4.41	
52 Cyclohexane	56	4.471	4.475	-0.004	91	73024	4.41	
55 Carbon tetrachloride	117	4.569	4.566	0.003	70	46110	4.31	
54 1,1-Dichloropropene	75	4.569	4.566	0.003	93	60803	4.69	
57 Benzene	78	4.727	4.724	0.003	98	185306	4.79	
58 1,2-Dichloroethane	62	4.757	4.761	-0.004	92	60289	4.78	
62 Trichloroethene	95	5.201	5.199	0.002	90	45090	4.64	
64 Methylcyclohexane	83	5.317	5.314	0.003	92	61931	4.38	
65 1,2-Dichloropropane	63	5.372	5.375	-0.003	94	52482	4.88	
67 Dibromomethane	93	5.475	5.473	0.003	89	28941	4.64	
68 Dichlorobromomethane	83	5.591	5.588	0.003	97	55421	4.60	
69 2-Chloroethyl vinyl ether	63	5.791	5.795	-0.004	92	172532	23.9	
72 cis-1,3-Dichloropropene	75	5.907	5.911	-0.004	87	70354	4.50	
73 4-Methyl-2-pentanone (MIBK)	43	6.010	6.008	0.002	97	288676	24.2	
74 Toluene	92	6.144	6.142	0.002	97	115079	4.63	
77 trans-1,3-Dichloropropene	75	6.327	6.330	-0.003	90	58246	4.26	
75 Ethyl methacrylate	69	6.369	6.367	0.002	88	61633	4.48	
79 1,1,2-Trichloroethane	83	6.467	6.470	-0.003	85	37772	4.84	
81 Tetrachloroethene	166	6.558	6.555	0.003	94	51627	4.78	
82 1,3-Dichloropropane	76	6.594	6.598	-0.004	89	79739	4.77	
80 2-Hexanone	43	6.637	6.634	0.003	97	194938	23.3	
83 Chlorodibromomethane	129	6.777	6.774	0.003	85	44542	4.26	
84 Ethylene Dibromide	107	6.862	6.860	0.002	93	48564	4.61	
87 Chlorobenzene	112	7.227	7.225	0.002	88	136282	4.69	
89 1,1,1,2-Tetrachloroethane	131	7.288	7.291	-0.003	88	42305	4.49	
88 Ethylbenzene	91	7.294	7.291	0.003	98	212823	4.74	
90 m-Xylene & p-Xylene	106	7.385	7.383	0.002	97	179825	9.77	
91 o-Xylene	106	7.702	7.699	0.003	94	86685	4.66	
92 Styrene	104	7.714	7.717	-0.003	95	147434	4.74	
95 Bromoform	173	7.896	7.894	0.002	93	29487	4.26	
94 Isopropylbenzene	105	7.988	7.985	0.003	93	220526	4.79	
101 Bromobenzene	156	8.255	8.253	0.002	92	58761	4.72	
97 1,1,2,2-Tetrachloroethane	83	8.261	8.259	0.002	89	63082	4.96	
100 1,2,3-Trichloropropane	110	8.292	8.295	-0.003	78	18514	4.74	
98 trans-1,4-Dichloro-2-butene	53	8.298	8.295	0.003	85	72360	23.2	
99 N-Propylbenzene	91	8.316	8.313	0.003	95	249953	4.87	
103 2-Chlorotoluene	126	8.401	8.399	0.002	97	52616	4.75	
102 1,3,5-Trimethylbenzene	105	8.456	8.453	0.003	79	172572	4.73	
105 4-Chlorotoluene	126	8.486	8.490	-0.004	94	55615	4.90	
106 tert-Butylbenzene	134	8.718	8.715	0.003	88	39863	4.67	
107 1,2,4-Trimethylbenzene	105	8.760	8.758	0.002	96	175950	4.77	
109 sec-Butylbenzene	105	8.894	8.898	-0.004	92	211512	4.72	
111 1,3-Dichlorobenzene	146	9.010	9.013	-0.003	75	105474	4.75	
110 4-Isopropyltoluene	119	9.010	9.013	-0.003	96	177874	4.88	
113 1,4-Dichlorobenzene	146	9.083	9.086	-0.003	93	109675	4.79	
115 n-Butylbenzene	91	9.350	9.348	0.002	95	141056	4.69	
116 1,2-Dichlorobenzene	146	9.393	9.390	0.003	97	103586	4.70	
117 1,2-Dibromo-3-Chloropropane	75	10.044	10.047	-0.003	63	8195	4.12	
119 1,2,4-Trichlorobenzene	180	10.713	10.716	-0.003	92	56438	4.43	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.835	10.838	-0.003	84	20091	4.76	
121 Naphthalene	128	10.920	10.917	0.003	95	128732	4.37	
122 1,2,3-Trichlorobenzene	180	11.114	11.112	0.002	93	41279	4.25	
S 123 Total BTEX	1				0		28.6	
S 124 Xylenes, Total	1				0		14.4	
S 125 1,2-Dichloroethene, Total	1				0		9.44	
S 126 1,3-Dichloropropene, Total	1				0		8.76	

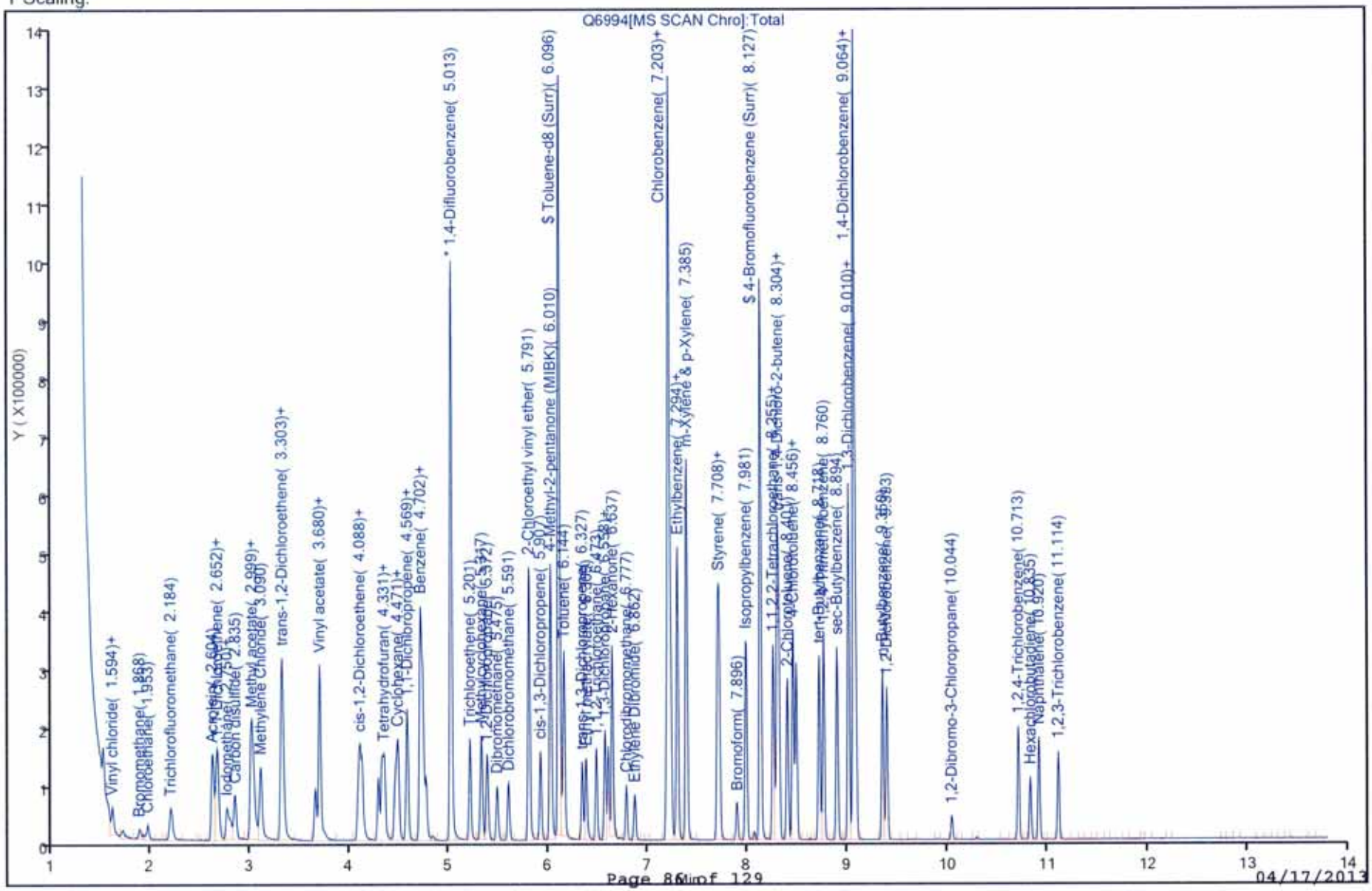
Report Date: 11-Apr-2013 16:51:31 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6994.D

Injection Date:	11-Apr-2013 12:14:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	3
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6995.D		
Lims ID:	IC 3	Client ID:	
Inject. Date:	11-Apr-2013 13:18:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	IC 3		
Misc. Info.:	480-0020501-004		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	112223	Lims Sample ID:	4
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:33	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 16:51:33

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
*	1 1,4-Difluorobenzene	114	5.011	5.010	0.001	93	691443	25.0	
*	2 Chlorobenzene-d5	82	7.201	7.200	0.001	84	315202	25.0	
*	3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	92	325065	25.0	
$	4 1,2-Dichloroethane-d4 (Surr)	67	4.701	4.700	0.001	97	103409	25.5	
$	5 Toluene-d8 (Surr)	98	6.094	6.093	0.001	93	765636	24.8	
$	6 4-Bromofluorobenzene (Surr)	174	8.132	8.131	0.001	94	248764	24.9	
	10 Dichlorodifluoromethane	85	1.355	1.360	-0.005	98	94749	10.3	
	12 Chloromethane	50	1.495	1.506	-0.011	88	131494	9.74	
	13 Vinyl chloride	62	1.592	1.597	-0.005	96	82378	10.1	
	14 Bromomethane	94	1.866	1.871	-0.005	90	19794	10.3	
	15 Chloroethane	64	1.945	1.956	-0.011	92	27010	9.47	
	17 Trichlorofluoromethane	101	2.176	2.187	-0.011	85	106256	9.35	
	20 Acrolein	56	2.602	2.601	0.001	95	326072	200.3	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.644	2.650	-0.006	76	74682	10.2	
	22 1,1-Dichloroethene	96	2.651	2.656	-0.005	93	83433	10.5	
	23 Acetone	43	2.748	2.747	0.001	100	182831	50.4	
	25 Iodomethane	142	2.784	2.790	-0.006	94	69939	7.93	
	26 Carbon disulfide	76	2.827	2.832	-0.005	99	238279	9.91	
	29 Acetonitrile	40	2.991	2.990	0.001	99	318691	407.1	
	27 Methyl acetate	43	3.009	3.009	0.0	96	134018	9.85	
	30 Methylene Chloride	84	3.089	3.088	0.001	89	103126	9.99	
	32 Methyl tert-butyl ether	73	3.295	3.295	0.0	91	259390	10.2	
	34 trans-1,2-Dichloroethene	96	3.295	3.301	-0.006	70	93988	10.5	
	33 Acrylonitrile	53	3.314	3.313	0.001	98	215331	52.4	
	39 1,1-Dichloroethane	63	3.636	3.641	-0.005	96	172224	10.2	
	37 Vinyl acetate	43	3.679	3.678	0.001	97	906301	52.8	
	44 2,2-Dichloropropane	77	4.068	4.073	-0.005	90	100502	9.92	
	45 cis-1,2-Dichloroethene	96	4.086	4.092	-0.006	83	102858	10.1	
	43 2-Butanone (MEK)	43	4.111	4.104	0.007	95	266573	49.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.275	4.274	0.001	96	54234	10.2	
49 Tetrahydrofuran	42	4.305	4.304	0.001	92	177441	50.5	
50 Chloroform	83	4.336	4.335	0.001	81	151119	10.1	
51 1,1,1-Trichloroethane	97	4.445	4.450	-0.005	92	119211	10.1	
52 Cyclohexane	56	4.469	4.475	-0.006	91	157981	10.1	
55 Carbon tetrachloride	117	4.567	4.566	0.001	89	102287	10.2	
54 1,1-Dichloropropene	75	4.567	4.566	0.001	94	126304	10.3	
57 Benzene	78	4.725	4.724	0.001	97	371058	10.2	
58 1,2-Dichloroethane	62	4.755	4.761	-0.006	85	121583	10.2	
62 Trichloroethene	95	5.199	5.199	0.0	95	91773	10.0	
64 Methylcyclohexane	83	5.315	5.314	0.001	91	130811	9.81	
65 1,2-Dichloropropane	63	5.370	5.375	-0.005	96	104564	10.3	
67 Dibromomethane	93	5.473	5.473	0.001	86	60428	10.3	
68 Dichlorobromomethane	83	5.589	5.588	0.001	98	113875	10.0	
69 2-Chloroethyl vinyl ether	63	5.790	5.795	-0.005	92	364136	53.5	
72 cis-1,3-Dichloropropene	75	5.905	5.911	-0.006	90	149490	10.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.008	0.001	97	575419	50.7	
74 Toluene	92	6.142	6.142	0.0	97	235752	9.97	
77 trans-1,3-Dichloropropene	75	6.325	6.330	-0.005	94	128590	9.05	
75 Ethyl methacrylate	69	6.368	6.367	0.001	91	128220	9.79	
79 1,1,2-Trichloroethane	83	6.471	6.470	0.001	90	73731	9.92	
81 Tetrachloroethene	166	6.556	6.555	0.001	90	101930	9.92	
82 1,3-Dichloropropane	76	6.593	6.598	-0.005	90	162425	10.2	
80 2-Hexanone	43	6.635	6.634	0.001	97	409664	51.4	
83 Chlorodibromomethane	129	6.775	6.774	0.001	91	98591	9.89	
84 Ethylene Dibromide	107	6.860	6.860	0.0	97	98419	9.81	
87 Chlorobenzene	112	7.225	7.225	0.0	88	280598	10.1	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.291	-0.005	89	88252	9.84	
88 Ethylbenzene	91	7.292	7.291	0.001	98	435622	10.2	
90 m-Xylene & p-Xylene	106	7.383	7.383	0.0	97	363844	20.8	
91 o-Xylene	106	7.700	7.699	0.001	94	179557	10.1	
92 Styrene	104	7.712	7.717	-0.005	96	305718	10.3	
95 Bromoform	173	7.894	7.894	0.0	96	63134	8.74	
94 Isopropylbenzene	105	7.986	7.985	0.001	95	443134	9.95	
101 Bromobenzene	156	8.253	8.253	0.0	94	120452	10.0	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.259	0.0	95	125841	10.2	
100 1,2,3-Trichloropropane	110	8.296	8.295	0.001	75	39234	10.4	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.295	0.001	84	153876	51.1	
99 N-Propylbenzene	91	8.314	8.313	0.001	95	516985	10.4	
103 2-Chlorotoluene	126	8.399	8.399	0.0	97	108136	10.1	
102 1,3,5-Trimethylbenzene	105	8.454	8.453	0.001	77	358152	10.1	
105 4-Chlorotoluene	126	8.485	8.490	-0.005	95	111770	10.2	
106 tert-Butylbenzene	134	8.716	8.715	0.001	90	81745	9.90	
107 1,2,4-Trimethylbenzene	105	8.758	8.758	0.0	96	367508	10.3	
109 sec-Butylbenzene	105	8.892	8.898	-0.006	91	440069	10.2	
111 1,3-Dichlorobenzene	146	9.008	9.013	-0.005	77	224709	10.5	
110 4-Isopropyltoluene	119	9.014	9.013	0.001	96	363688	10.3	
113 1,4-Dichlorobenzene	146	9.081	9.086	-0.005	93	223187	10.1	
115 n-Butylbenzene	91	9.348	9.348	0.0	93	294803	10.1	
116 1,2-Dichlorobenzene	146	9.391	9.390	0.001	98	217417	10.2	
117 1,2-Dibromo-3-Chloropropane	75	10.048	10.047	0.001	74	18924	9.83	
119 1,2,4-Trichlorobenzene	180	10.717	10.716	0.001	93	134594	10.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.838	-0.005	92	43938	10.8	
121 Naphthalene	128	10.918	10.917	0.001	97	322400	11.3	
122 1,2,3-Trichlorobenzene	180	11.113	11.112	0.001	96	120304	12.5	
S 123 Total BTEX	1				0		61.2	
S 124 Xylenes, Total	1				0		30.9	
S 125 1,2-Dichloroethene, Total	1				0		20.6	
S 126 1,3-Dichloropropene, Total	1				0		19.2	

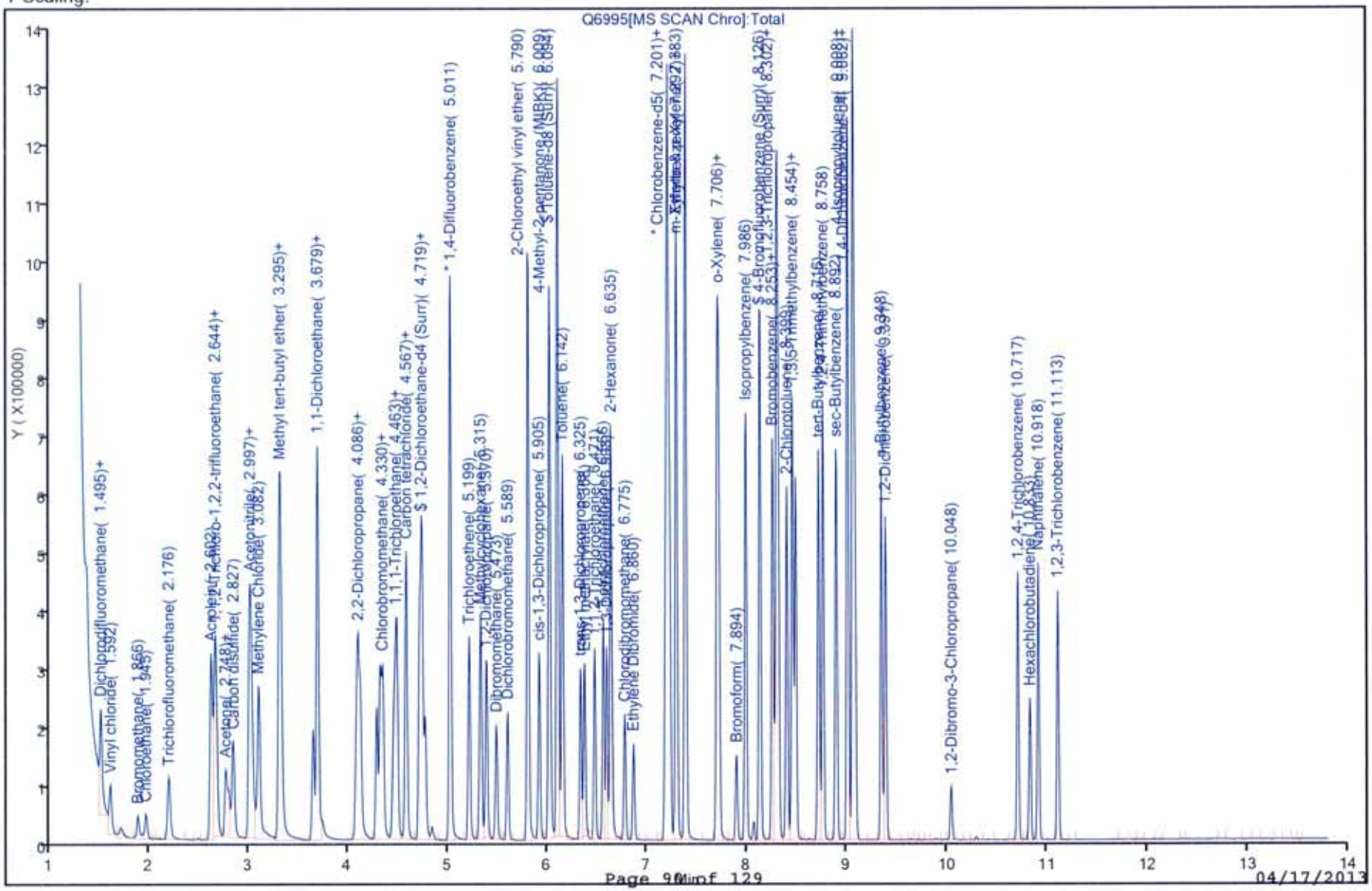
Report Date: 11-Apr-2013 16:51:33 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6995.D

Injection Date:	11-Apr-2013 13:18:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	4
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6996.D		
Lims ID:	ICIS 4	Client ID:	
Inject. Date:	11-Apr-2013 13:45:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	4
Sample ID:	ICIS 4		
Misc. Info.:	480-0020501-005		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	112223	Lims Sample ID:	5
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:36	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 16:51:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.010	5.010	0.0	93	695703	25.0	
* 2 Chlorobenzene-d5	82	7.200	7.200	0.0	84	304148	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.062	9.062	0.0	73	313380	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.700	4.700	0.0	93	98560	24.2	
$ 5 Toluene-d8 (Surr)	98	6.093	6.093	0.0	92	735067	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.131	8.131	0.0	95	241155	25.1	
10 Dichlorodifluoromethane	85	1.360	1.360	0.0	98	223689	24.2	
12 Chloromethane	50	1.506	1.506	0.0	89	345376	25.4	
13 Vinyl chloride	62	1.597	1.597	0.0	98	204178	25.0	
14 Bromomethane	94	1.871	1.871	0.0	90	55218	22.2	
15 Chloroethane	64	1.956	1.956	0.0	93	71131	24.8	
17 Trichlorofluoromethane	101	2.187	2.187	0.0	96	288642	25.2	
20 Acrolein	56	2.601	2.601	0.0	95	828111	505.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.650	2.650	0.0	82	187248	25.5	
22 1,1-Dichloroethene	96	2.656	2.656	0.0	93	198048	24.8	
23 Acetone	43	2.747	2.747	0.0	100	413799	122.0	
25 Iodomethane	142	2.790	2.790	0.0	96	216599	22.0	
26 Carbon disulfide	76	2.832	2.832	0.0	99	610807	25.2	
29 Acetonitrile	40	2.990	2.990	0.0	99	798403	1013.7	
27 Methyl acetate	43	3.009	3.009	0.0	99	342263	25.0	
30 Methylene Chloride	84	3.088	3.088	0.0	94	237994	22.9	
32 Methyl tert-butyl ether	73	3.295	3.295	0.0	90	654214	25.5	
34 trans-1,2-Dichloroethene	96	3.301	3.301	0.0	98	223187	24.9	
33 Acrylonitrile	53	3.313	3.313	0.0	98	533858	129.1	
39 1,1-Dichloroethane	63	3.641	3.641	0.0	96	420674	24.9	
37 Vinyl acetate	43	3.678	3.678	0.0	97	2243274	130.0	
44 2,2-Dichloropropane	77	4.073	4.073	0.0	89	264072	25.9	
45 cis-1,2-Dichloroethene	96	4.092	4.092	0.0	82	253833	24.7	
43 2-Butanone (MEK)	43	4.104	4.104	0.0	94	695218	129.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.274	4.274	0.0	96	135004	25.3	
49 Tetrahydrofuran	42	4.304	4.304	0.0	91	457104	129.2	
50 Chloroform	83	4.335	4.335	0.0	86	372112	24.7	
51 1,1,1-Trichloroethane	97	4.450	4.450	0.0	93	298975	25.2	
52 Cyclohexane	56	4.475	4.475	0.0	91	406970	25.9	
55 Carbon tetrachloride	117	4.566	4.566	0.0	81	255446	25.2	
54 1,1-Dichloropropene	75	4.566	4.566	0.0	94	309971	25.2	
57 Benzene	78	4.724	4.724	0.0	97	912997	24.9	
58 1,2-Dichloroethane	62	4.761	4.761	0.0	87	291001	24.3	
62 Trichloroethene	95	5.199	5.199	0.0	93	232828	25.3	
64 Methylcyclohexane	83	5.314	5.314	0.0	92	351249	26.2	
65 1,2-Dichloropropane	63	5.375	5.375	0.0	95	254351	25.0	
67 Dibromomethane	93	5.473	5.473	0.0	92	146533	24.8	
68 Dichlorobromomethane	83	5.588	5.588	0.0	99	291804	25.5	
69 2-Chloroethyl vinyl ether	63	5.795	5.795	0.0	91	907559	132.5	
72 cis-1,3-Dichloropropene	75	5.911	5.911	0.0	91	382096	25.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.008	6.008	0.0	97	1441645	131.7	
74 Toluene	92	6.142	6.142	0.0	98	571382	25.0	
77 trans-1,3-Dichloropropene	75	6.330	6.330	0.0	89	343176	23.9	
75 Ethyl methacrylate	69	6.367	6.367	0.0	90	336844	26.7	
79 1,1,2-Trichloroethane	83	6.470	6.470	0.0	86	181465	25.3	
81 Tetrachloroethene	166	6.555	6.555	0.0	98	251002	25.3	
82 1,3-Dichloropropane	76	6.598	6.598	0.0	88	392226	25.5	
80 2-Hexanone	43	6.634	6.634	0.0	98	1043021	135.5	
83 Chlorodibromomethane	129	6.774	6.774	0.0	88	252567	26.3	
84 Ethylene Dibromide	107	6.860	6.860	0.0	97	253795	26.2	
87 Chlorobenzene	112	7.225	7.225	0.0	95	677202	25.4	
89 1,1,1,2-Tetrachloroethane	131	7.291	7.291	0.0	89	228708	26.4	
88 Ethylbenzene	91	7.291	7.291	0.0	98	1043659	25.3	
90 m-Xylene & p-Xylene	106	7.383	7.383	0.0	97	860318	50.9	
91 o-Xylene	106	7.699	7.699	0.0	95	439026	25.7	
92 Styrene	104	7.717	7.717	0.0	96	739010	25.8	
95 Bromoform	173	7.894	7.894	0.0	98	169072	23.1	
94 Isopropylbenzene	105	7.985	7.985	0.0	95	1076825	25.1	
101 Bromobenzene	156	8.253	8.253	0.0	92	288224	24.8	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.259	0.0	94	304091	25.6	
100 1,2,3-Trichloropropane	110	8.295	8.295	0.0	76	92207	25.3	
98 trans-1,4-Dichloro-2-butene	53	8.295	8.295	0.0	90	391093	134.8	
99 N-Propylbenzene	91	8.313	8.313	0.0	94	1207048	25.2	
103 2-Chlorotoluene	126	8.399	8.399	0.0	97	258114	25.0	
102 1,3,5-Trimethylbenzene	105	8.453	8.453	0.0	84	859279	25.3	
105 4-Chlorotoluene	126	8.490	8.490	0.0	95	269539	25.5	
106 tert-Butylbenzene	134	8.715	8.715	0.0	87	201700	25.3	
107 1,2,4-Trimethylbenzene	105	8.758	8.758	0.0	96	857789	24.9	
109 sec-Butylbenzene	105	8.898	8.898	0.0	93	1050442	25.2	
111 1,3-Dichlorobenzene	146	9.013	9.013	0.0	75	517582	25.0	
110 4-Isopropyltoluene	119	9.013	9.013	0.0	97	857458	25.2	
113 1,4-Dichlorobenzene	146	9.086	9.086	0.0	97	528581	24.7	
115 n-Butylbenzene	91	9.348	9.348	0.0	96	705057	25.2	
116 1,2-Dichlorobenzene	146	9.390	9.390	0.0	98	511295	24.9	
117 1,2-Dibromo-3-Chloropropane	75	10.047	10.047	0.0	87	47886	25.8	
119 1,2,4-Trichlorobenzene	180	10.716	10.716	0.0	93	293142	24.7	

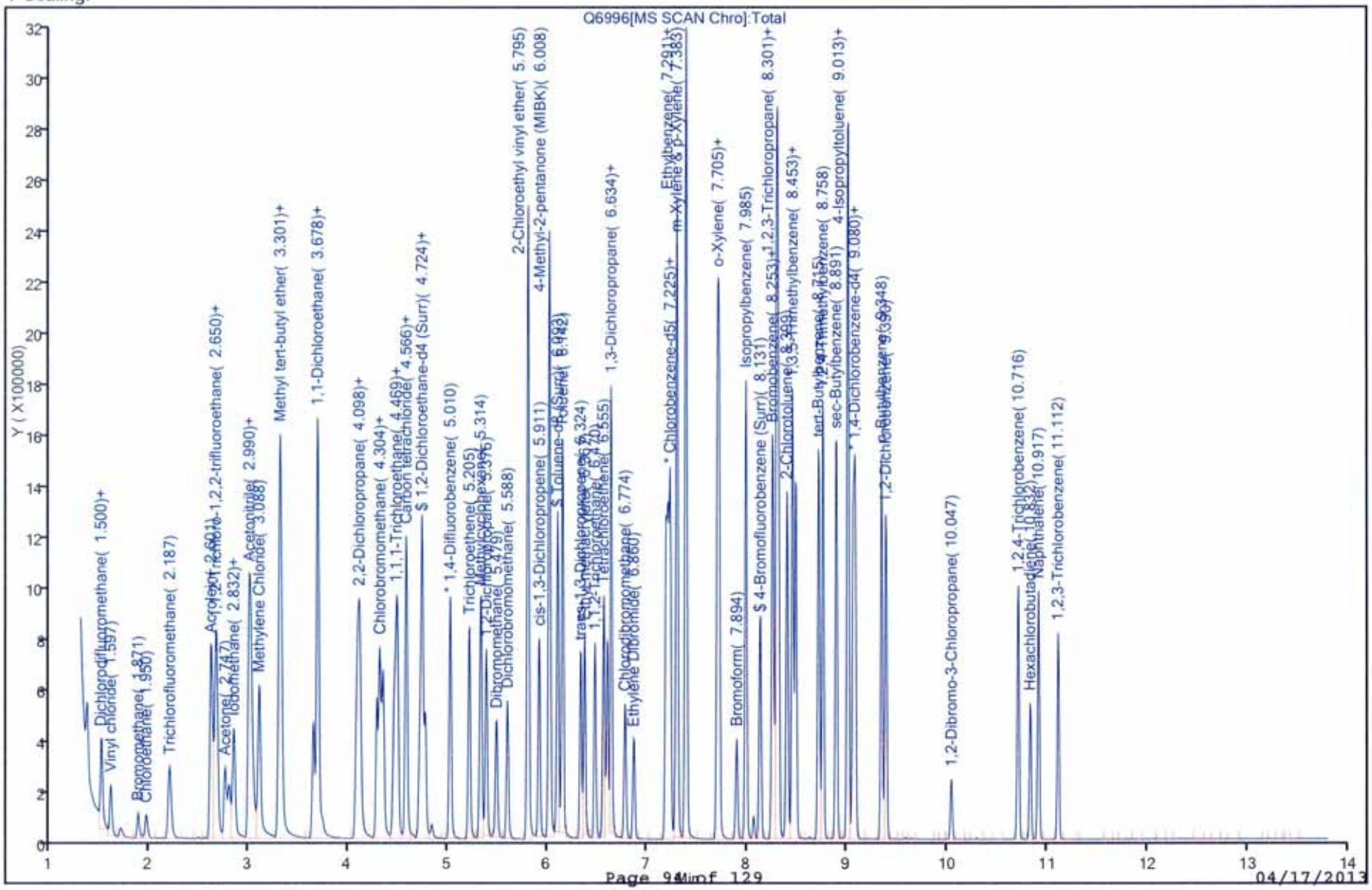
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.838	10.838	0.0	95	94359	24.0	
121 Naphthalene	128	10.917	10.917	0.0	97	671305	24.5	
122 1,2,3-Trichlorobenzene	180	11.112	11.112	0.0	97	222763	23.9	
S 123 Total BTEX	1				0		151.8	
S 124 Xylenes, Total	1				0		76.5	
S 125 1,2-Dichloroethene, Total	1				0		49.6	
S 126 1,3-Dichloropropene, Total	1				0		49.7	

Report Date: 11-Apr-2013 16:51:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6996.D		
Injection Date:	11-Apr-2013 13:45:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	5
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6997.D		
Lims ID:	IC 5	Client ID:	
Inject. Date:	11-Apr-2013 14:13:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	IC 5		
Misc. Info.:	480-0020501-006		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	112223	Lims Sample ID:	6
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:38	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 16:51:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.011	5.010	0.001	94	677434	25.0	
* 2 Chlorobenzene-d5	82	7.201	7.200	0.001	84	293173	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.062	0.001	66	301608	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.701	4.700	0.001	95	99664	25.1	
$ 5 Toluene-d8 (Surr)	98	6.094	6.093	0.001	92	722367	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.132	8.131	0.001	95	235775	25.4	
10 Dichlorodifluoromethane	85	1.361	1.360	0.001	88	478991	53.2	
12 Chloromethane	50	1.507	1.506	0.001	89	672414	50.8	
13 Vinyl chloride	62	1.598	1.597	0.001	82	420890	52.8	
14 Bromomethane	94	1.872	1.871	0.001	92	121973	45.9	
15 Chloroethane	64	1.957	1.956	0.001	95	156006	55.9	
17 Trichlorofluoromethane	101	2.188	2.187	0.001	98	599415	53.8	
20 Acrolein	56	2.602	2.601	0.001	95	1690275	1059.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.651	2.650	0.001	81	375950	52.5	
22 1,1-Dichloroethene	96	2.657	2.656	0.001	99	393853	50.7	
23 Acetone	43	2.748	2.747	0.001	100	812201	252.9	
25 Iodomethane	142	2.791	2.790	0.001	96	497247	50.4	
26 Carbon disulfide	76	2.833	2.832	0.001	99	1253620	53.2	
29 Acetonitrile	40	2.991	2.990	0.001	99	1540985	2009.2	
27 Methyl acetate	43	3.010	3.009	0.001	97	663273	49.8	
30 Methylene Chloride	84	3.089	3.088	0.001	89	482179	47.7	
32 Methyl tert-butyl ether	73	3.290	3.295	-0.005	91	1316652	52.8	
34 trans-1,2-Dichloroethene	96	3.296	3.301	-0.005	95	435982	49.9	
33 Acrylonitrile	53	3.314	3.313	0.001	99	1024616	254.5	
39 1,1-Dichloroethane	63	3.642	3.641	0.001	96	836121	50.8	
37 Vinyl acetate	43	3.679	3.678	0.001	97	4490275	267.2	
44 2,2-Dichloropropane	77	4.074	4.073	0.001	89	557873	56.2	
45 cis-1,2-Dichloroethene	96	4.093	4.092	0.001	82	501146	50.2	
43 2-Butanone (MEK)	43	4.105	4.104	0.001	94	1348696	257.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.275	4.274	0.001	97	266913	51.3	
49 Tetrahydrofuran	42	4.299	4.304	-0.005	92	882950	256.4	
50 Chloroform	83	4.336	4.335	0.001	93	724304	49.3	
51 1,1,1-Trichloroethane	97	4.445	4.450	-0.005	93	618124	53.6	
52 Cyclohexane	56	4.476	4.475	0.001	91	811573	53.1	
55 Carbon tetrachloride	117	4.567	4.566	0.001	86	544792	55.2	
54 1,1-Dichloropropene	75	4.567	4.566	0.001	96	609223	50.9	
57 Benzene	78	4.725	4.724	0.001	97	1777853	49.8	
58 1,2-Dichloroethane	62	4.762	4.761	0.001	94	577081	49.6	
62 Trichloroethene	95	5.200	5.199	0.001	95	458775	51.1	
64 Methylcyclohexane	83	5.321	5.314	0.007	92	705531	54.0	
65 1,2-Dichloropropane	63	5.376	5.375	0.001	96	494242	49.8	
67 Dibromomethane	93	5.474	5.473	0.002	87	289263	50.2	
68 Dichlorobromomethane	83	5.589	5.588	0.001	93	593625	53.4	
69 2-Chloroethyl vinyl ether	63	5.796	5.795	0.001	92	1688735	253.2	
72 cis-1,3-Dichloropropene	75	5.912	5.911	0.001	90	753891	52.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.008	0.001	97	2748220	260.5	
74 Toluene	92	6.143	6.142	0.001	98	1116087	50.7	
77 trans-1,3-Dichloropropene	75	6.325	6.330	-0.005	90	694571	49.6	
75 Ethyl methacrylate	69	6.368	6.367	0.001	90	674029	55.4	
79 1,1,2-Trichloroethane	83	6.471	6.470	0.001	91	356316	51.6	
81 Tetrachloroethene	166	6.556	6.555	0.001	98	508821	53.2	
82 1,3-Dichloropropane	76	6.599	6.598	0.001	87	746426	50.4	
80 2-Hexanone	43	6.635	6.634	0.001	97	1936923	261.1	
83 Chlorodibromomethane	129	6.775	6.774	0.001	89	523720	56.5	
84 Ethylene Dibromide	107	6.861	6.860	0.001	97	493604	52.9	
87 Chlorobenzene	112	7.226	7.225	0.001	89	1306905	50.8	
89 1,1,1,2-Tetrachloroethane	131	7.293	7.291	0.001	89	445801	53.5	
88 Ethylbenzene	91	7.293	7.291	0.001	98	1988210	50.0	
90 m-Xylene & p-Xylene	106	7.384	7.383	0.001	97	1623413	99.6	
91 o-Xylene	106	7.700	7.699	0.001	95	842742	51.2	
92 Styrene	104	7.718	7.717	0.001	96	1421712	51.6	
95 Bromoform	173	7.895	7.894	0.001	98	351429	48.9	
94 Isopropylbenzene	105	7.986	7.985	0.001	95	2123248	51.4	
101 Bromobenzene	156	8.254	8.253	0.001	90	562878	50.3	
97 1,1,2,2-Tetrachloroethane	83	8.260	8.259	0.001	93	583016	51.1	
100 1,2,3-Trichloropropane	110	8.296	8.295	0.001	75	175793	50.2	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.295	0.001	94	739843	264.9	
99 N-Propylbenzene	91	8.315	8.313	0.002	93	2301386	50.0	
103 2-Chlorotoluene	126	8.400	8.399	0.001	97	504669	50.8	
102 1,3,5-Trimethylbenzene	105	8.454	8.453	0.001	74	1660348	50.7	
105 4-Chlorotoluene	126	8.491	8.490	0.001	95	514510	50.5	
106 tert-Butylbenzene	134	8.716	8.715	0.001	91	394810	51.5	
107 1,2,4-Trimethylbenzene	105	8.759	8.758	0.001	96	1671086	50.5	
109 sec-Butylbenzene	105	8.899	8.898	0.001	93	2050899	51.0	
111 1,3-Dichlorobenzene	146	9.014	9.013	0.001	74	979771	49.1	
110 4-Isopropyltoluene	119	9.014	9.013	0.001	97	1645664	50.3	
113 1,4-Dichlorobenzene	146	9.087	9.086	0.001	97	1034614	50.3	
115 n-Butylbenzene	91	9.349	9.348	0.001	97	1404010	52.1	
116 1,2-Dichlorobenzene	146	9.391	9.390	0.001	98	989666	50.1	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.047	-0.005	89	98251	55.0	
119 1,2,4-Trichlorobenzene	180	10.717	10.716	0.001	93	585775	51.2	

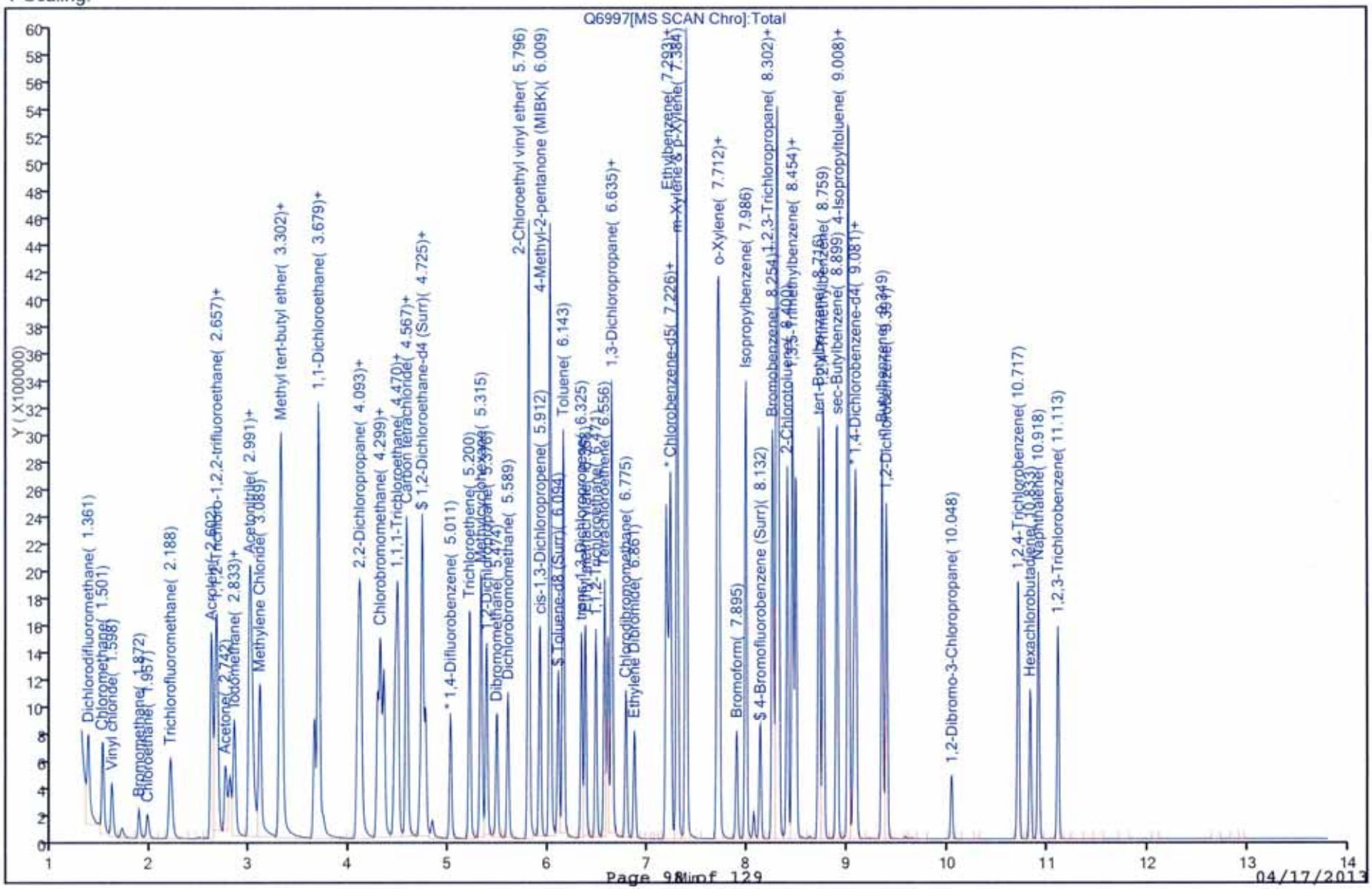
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.838	-0.005	95	203129	53.6	
121 Naphthalene	128	10.918	10.917	0.001	97	1378545	52.2	
122 1,2,3-Trichlorobenzene	180	11.113	11.112	0.001	94	440132	48.9	
S 123 Total BTEX	1				0		301.2	
S 124 Xylenes, Total	1				0		150.7	
S 125 1,2-Dichloroethene, Total	1				0		100.1	
S 126 1,3-Dichloropropene, Total	1				0		101.8	

Report Date: 11-Apr-2013 16:51:38 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6997.D		
Injection Date:	11-Apr-2013 14:13:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	6
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Lims ID:	IC 6	Client ID:	
Inject. Date:	11-Apr-2013 14:40:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	IC 6		
Misc. Info.:	480-0020501-007		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	112223	Lims Sample ID:	7
Sublist:	chrom-Q-8260*sub1		
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 16:51:41	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 16:51:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.013	5.010	0.003	93	641815	25.0	
* 2 Chlorobenzene-d5	82	7.203	7.200	0.003	86	269807	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.065	9.062	0.003	61	281297	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.703	4.700	0.003	90	93654	24.9	
$ 5 Toluene-d8 (Surr)	98	6.096	6.093	0.003	91	676092	25.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.134	8.131	0.003	96	228306	26.7	
10 Dichlorodifluoromethane	85	1.357	1.360	-0.003	99	903996	105.9	
12 Chloromethane	50	1.503	1.506	-0.003	89	1292024	103.1	
13 Vinyl chloride	62	1.594	1.597	-0.003	98	782882	103.7	
14 Bromomethane	94	1.868	1.871	-0.003	92	270652	102.7	
15 Chloroethane	64	1.953	1.956	-0.003	94	304770	115.2	
17 Trichlorofluoromethane	101	2.190	2.187	0.003	96	1151261	109.1	
20 Acrolein	56	2.604	2.601	0.003	95	3105352	2054.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.647	2.650	-0.003	89	686217	101.2	
22 1,1-Dichloroethene	96	2.653	2.656	-0.003	99	731363	99.3	
23 Acetone	43	2.744	2.747	-0.003	100	1509635	502.6	
25 Iodomethane	142	2.787	2.790	-0.004	96	996203	105.3	
26 Carbon disulfide	76	2.829	2.832	-0.003	99	2322641	104.1	
29 Acetonitrile	40	2.987	2.990	-0.003	99	2811517	3869.2	
27 Methyl acetate	43	3.005	3.009	-0.004	97	1234185	97.8	
30 Methylene Chloride	84	3.091	3.088	0.003	93	885690	92.4	
32 Methyl tert-butyl ether	73	3.291	3.295	-0.004	90	2439934	103.2	
34 trans-1,2-Dichloroethene	96	3.298	3.301	-0.003	94	775420	93.6	
33 Acrylonitrile	53	3.310	3.313	-0.003	98	1821053	477.5	
39 1,1-Dichloroethane	63	3.638	3.641	-0.003	85	1608459	103.1	
37 Vinyl acetate	43	3.681	3.678	0.003	97	8115478	509.7	
44 2,2-Dichloropropane	77	4.070	4.073	-0.003	90	1090331	116.0	
45 cis-1,2-Dichloroethene	96	4.088	4.092	-0.004	83	917164	96.9	
43 2-Butanone (MEK)	43	4.107	4.104	0.003	94	2398128	482.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.277	4.274	0.003	97	499780	101.3	
49 Tetrahydrofuran	42	4.301	4.304	-0.003	91	1606917	492.5	
50 Chloroform	83	4.338	4.335	0.003	94	1367813	98.3	
51 1,1,1-Trichloroethane	97	4.447	4.450	-0.003	93	1170860	107.1	
52 Cyclohexane	56	4.472	4.475	-0.003	92	1449261	100.0	
55 Carbon tetrachloride	117	4.563	4.566	-0.003	90	1041815	111.4	
54 1,1-Dichloropropene	75	4.569	4.566	0.003	95	1089200	96.1	
57 Benzene	78	4.727	4.724	0.003	97	3245194	96.0	
58 1,2-Dichloroethane	62	4.758	4.761	-0.003	91	1089624	98.8	
62 Trichloroethene	95	5.202	5.199	0.003	96	854879	100.6	
64 Methylcyclohexane	83	5.317	5.314	0.003	92	1272835	102.8	
65 1,2-Dichloropropane	63	5.372	5.375	-0.003	96	916185	97.5	
67 Dibromomethane	93	5.475	5.473	0.003	84	543466	99.5	
68 Dichlorobromomethane	83	5.585	5.588	-0.003	99	1130359	107.2	
69 2-Chloroethyl vinyl ether	63	5.798	5.795	0.003	93	2835586	448.7	
72 cis-1,3-Dichloropropene	75	5.907	5.911	-0.004	91	1435296	104.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.011	6.008	0.003	97	4772760	491.6	
74 Toluene	92	6.145	6.142	0.003	98	2019557	99.8	
77 trans-1,3-Dichloropropene	75	6.327	6.330	-0.003	93	1335657	102.9	
75 Ethyl methacrylate	69	6.370	6.367	0.003	91	1222077	109.1	
79 1,1,2-Trichloroethane	83	6.473	6.470	0.003	86	658582	103.6	
81 Tetrachloroethene	166	6.558	6.555	0.003	98	939994	106.8	
82 1,3-Dichloropropane	76	6.595	6.598	-0.003	88	1380175	101.2	
80 2-Hexanone	43	6.637	6.634	0.003	98	3405524	498.9	
83 Chlorodibromomethane	129	6.777	6.774	0.003	89	996266	116.8	
84 Ethylene Dibromide	107	6.862	6.860	0.002	98	926503	107.9	
87 Chlorobenzene	112	7.227	7.225	0.002	89	2401666	101.5	
89 1,1,1,2-Tetrachloroethane	131	7.288	7.291	-0.003	89	829146	108.1	
88 Ethylbenzene	91	7.294	7.291	0.003	98	3437412	93.9	
90 m-Xylene & p-Xylene	106	7.386	7.383	0.003	97	2804360	186.9	
91 o-Xylene	106	7.702	7.699	0.003	95	1491709	98.4	
92 Styrene	104	7.720	7.717	0.003	96	2500059	98.5	
95 Bromoform	173	7.891	7.894	-0.003	98	696704	104.7	
94 Isopropylbenzene	105	7.988	7.985	0.003	95	3853807	100.0	
101 Bromobenzene	156	8.256	8.253	0.003	88	1045014	100.2	
97 1,1,2,2-Tetrachloroethane	83	8.262	8.259	0.003	96	1016796	95.5	
100 1,2,3-Trichloropropane	110	8.292	8.295	-0.003	73	311349	95.3	
98 trans-1,4-Dichloro-2-butene	53	8.304	8.295	0.009	92	1281682	492.1	
99 N-Propylbenzene	91	8.316	8.313	0.003	95	3913109	91.1	
103 2-Chlorotoluene	126	8.402	8.399	0.003	97	907256	97.9	
102 1,3,5-Trimethylbenzene	105	8.456	8.453	0.003	73	2970867	97.3	
105 4-Chlorotoluene	126	8.493	8.490	0.003	95	926734	97.5	
106 tert-Butylbenzene	134	8.718	8.715	0.003	86	715706	100.1	
107 1,2,4-Trimethylbenzene	105	8.760	8.758	0.002	96	3016644	97.7	
109 sec-Butylbenzene	105	8.894	8.898	-0.004	93	3711981	99.0	
111 1,3-Dichlorobenzene	146	9.010	9.013	-0.003	76	1735852	93.3	
110 4-Isopropyltoluene	119	9.016	9.013	0.003	95	2871065	94.1	
113 1,4-Dichlorobenzene	146	9.083	9.086	-0.003	96	1905731	99.4	
115 n-Butylbenzene	91	9.351	9.348	0.003	97	2547148	101.3	
116 1,2-Dichlorobenzene	146	9.393	9.390	0.003	99	1832047	99.4	
117 1,2-Dibromo-3-Chloropropane	75	10.044	10.047	-0.003	91	187353	112.4	
119 1,2,4-Trichlorobenzene	180	10.719	10.716	0.003	91	1114993	104.5	

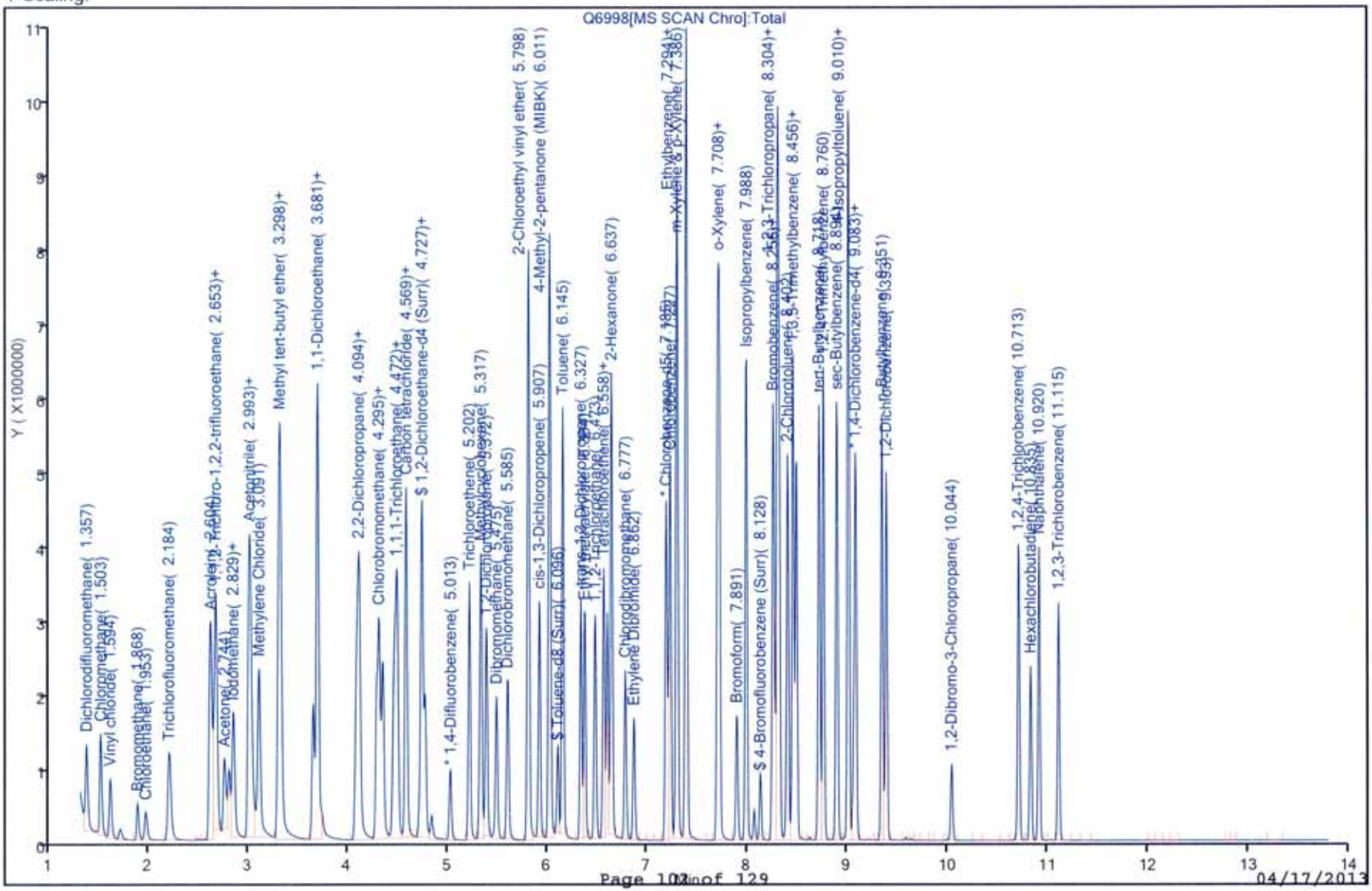
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.835	10.838	-0.003	95	385224	109.0	
121 Naphthalene	128	10.920	10.917	0.003	96	2610516	106.0	
122 1,2,3-Trichlorobenzene	180	11.115	11.112	0.003	94	844222	100.5	
S 123 Total BTEX	1				0		574.9	
S 124 Xylenes, Total	1				0		285.3	
S 125 1,2-Dichloroethene, Total	1				0		190.6	
S 126 1,3-Dichloropropene, Total	1				0		207.8	

Report Date: 11-Apr-2013 16:51:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Injection Date:	11-Apr-2013 14:40:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	7
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Lab Sample ID: CCVIS 480-112867/2 Calibration Date: 04/15/2013 09:26

Instrument ID: HP5973Q Calib Start Date: 04/11/2013 11:47

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/11/2013 14:40

Lab File ID: Q7110.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3324	0.3332		25.1	25.0	0.2	50.0
Chloromethane	Ave	0.4881	0.4949	0.1000	25.3	25.0	1.4	50.0
Vinyl chloride	Ave	0.2939	0.3251		27.7	25.0	10.6	20.0
Bromomethane	Lin		0.0686		19.7	25.0	-21.3	50.0
Chloroethane	Ave	0.1031	0.1061		25.7	25.0	3.0	50.0
Trichlorofluoromethane	Ave	0.4110	0.4328		26.3	25.0	5.3	50.0
Acrolein	Ave	0.0589	0.0688		584	500	16.8	50.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.2642	0.2792		26.4	25.0	5.7	50.0
1,1-Dichloroethene	Ave	0.2870	0.2840	0.1000	24.7	25.0	-1.0	20.0
Acetone	Lin1		0.1296		133	125	6.8	50.0
Iodomethane	Lin1		0.2009		14.6	25.0	-41.5	50.0
Carbon disulfide	Ave	0.8693	0.8800		25.3	25.0	1.2	50.0
Acetonitrile	Ave	0.0283	0.0315		1110	1000	11.4	50.0
Methyl acetate	Ave	0.4918	0.5326		27.1	25.0	8.3	50.0
Methylene Chloride	Ave	0.3734	0.3381		22.6	25.0	-9.5	50.0
Methyl tert-butyl ether	Ave	0.9205	0.9280		25.2	25.0	0.8	50.0
trans-1,2-Dichloroethene	Ave	0.3226	0.3202		24.8	25.0	-0.7	50.0
Acrylonitrile	Ave	0.1486	0.1678		141	125	13.0	50.0
1,1-Dichloroethane	Ave	0.6078	0.6131		25.2	25.0	0.9	50.0
Vinyl acetate	Ave	0.6202	0.7225		146	125	16.5	50.0
2,2-Dichloropropane	Ave	0.3662	0.3946		26.9	25.0	7.8	50.0
cis-1,2-Dichloroethene	Ave	0.3686	0.3602		24.4	25.0	-2.3	50.0
2-Butanone (MEK)	Ave	0.1935	0.2142		138	125	10.7	50.0
Bromochloromethane	Ave	0.1921	0.1877		24.4	25.0	-2.3	50.0
Tetrahydrofuran	Ave	0.1271	0.1472		145	125	15.8	50.0
Chloroform	Ave	0.5418	0.5301		24.5	25.0	-2.2	20.0
1,1,1-Trichloroethane	Ave	0.4257	0.4311		25.3	25.0	1.3	50.0
Cyclohexane	Ave	0.5643	0.6102		27.0	25.0	8.1	50.0
1,1-Dichloropropene	Ave	0.4413	0.4430		25.1	25.0	0.4	50.0
Carbon tetrachloride	Ave	0.3644	0.3845		26.4	25.0	5.5	50.0
Benzene	Ave	1.317	1.317		25.0	25.0	-0.0	50.0
1,2-Dichloroethane	Ave	0.4297	0.4282		24.9	25.0	-0.3	50.0
Trichloroethene	Ave	0.3311	0.3242		24.5	25.0	-2.1	50.0
Methylcyclohexane	Ave	0.4822	0.5152		26.7	25.0	6.9	50.0
1,2-Dichloropropane	Ave	0.3661	0.3766		25.7	25.0	2.9	20.0
Dibromomethane	Ave	0.2127	0.2121		24.9	25.0	-0.3	50.0
Bromodichloromethane	Ave	0.4106	0.4209		25.6	25.0	2.5	50.0
2-Chloroethyl vinyl ether	Ave	0.2461	0.2649		135	125	7.6	50.0
cis-1,3-Dichloropropene	Ave	0.5328	0.5633		26.4	25.0	5.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8997	1.041		145	125	15.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Lab Sample ID: CCVIS 480-112867/2 Calibration Date: 04/15/2013 09:26

Instrument ID: HP5973Q Calib Start Date: 04/11/2013 11:47

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/11/2013 14:40

Lab File ID: Q7110.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.875	1.790		23.9	25.0	-4.5	20.0
trans-1,3-Dichloropropene	Lin1		1.129		24.0	25.0	-4.2	50.0
Ethyl methacrylate	Ave	1.038	1.096		26.4	25.0	5.5	50.0
1,1,2-Trichloroethane	Ave	0.5892	0.5991		25.4	25.0	1.7	50.0
Tetrachloroethene	Ave	0.8152	0.7909		24.3	25.0	-3.0	50.0
1,3-Dichloropropane	Ave	1.264	1.282		25.4	25.0	1.5	50.0
2-Hexanone	Ave	0.6325	0.7305		144	125	15.5	50.0
Chlorodibromomethane	Ave	0.7904	0.8227		26.0	25.0	4.1	50.0
1,2-Dibromoethane (EDB)	Ave	0.7955	0.7893		24.8	25.0	-0.8	50.0
Chlorobenzene	Ave	2.194	2.159	0.3000	24.6	25.0	-1.6	50.0
1,1,1,2-Tetrachloroethane	Ave	0.7110	0.7424		26.1	25.0	4.4	50.0
Ethylbenzene	Ave	3.392	3.343		24.6	25.0	-1.4	20.0
m,p-Xylene	Ave	1.391	1.383		49.7	50.0	-0.5	50.0
o-Xylene	Ave	1.405	1.388		24.7	25.0	-1.2	50.0
Styrene	Ave	2.351	2.321		24.7	25.0	-1.3	50.0
Bromoform	Lin1		0.5604	0.1000	23.2	25.0	-7.0	50.0
Isopropylbenzene	Ave	3.425	3.451		25.2	25.0	0.8	50.0
Bromobenzene	Ave	0.9268	0.8937		24.1	25.0	-3.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9466	1.033	0.3000	27.3	25.0	9.1	50.0
1,2,3-Trichloropropane	Ave	0.2903	0.3067		26.4	25.0	5.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2315	0.2572		139	125	11.1	50.0
N-Propylbenzene	Ave	3.816	3.958		25.9	25.0	3.7	50.0
2-Chlorotoluene	Ave	0.8239	0.8214		24.9	25.0	-0.3	50.0
1,3,5-Trimethylbenzene	Ave	2.715	2.740		25.2	25.0	0.9	50.0
4-Chlorotoluene	Ave	0.8445	0.8584		25.4	25.0	1.6	50.0
tert-Butylbenzene	Ave	0.6353	0.6394		25.2	25.0	0.6	50.0
1,2,4-Trimethylbenzene	Ave	2.745	2.732		24.9	25.0	-0.5	50.0
sec-Butylbenzene	Ave	3.332	3.376		25.3	25.0	1.3	50.0
1,3-Dichlorobenzene	Ave	1.653	1.634		24.7	25.0	-1.1	50.0
4-Isopropyltoluene	Ave	2.711	2.726		25.1	25.0	0.6	50.0
1,4-Dichlorobenzene	Ave	1.704	1.668		24.5	25.0	-2.1	50.0
n-Butylbenzene	Ave	2.235	2.293		25.7	25.0	2.6	50.0
1,2-Dichlorobenzene	Ave	1.638	1.598		24.4	25.0	-2.4	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1481	0.1627		27.5	25.0	9.9	50.0
1,2,4-Trichlorobenzene	Ave	0.9484	0.8730		23.0	25.0	-8.0	50.0
Hexachlorobutadiene	Ave	0.3141	0.2969		23.6	25.0	-5.5	50.0
Naphthalene	Ave	2.189	2.111		24.1	25.0	-3.5	50.0
1,2,3-Trichlorobenzene	Lin1		0.6789		22.8	25.0	-8.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1465	0.1466		25.0	25.0	0.0	50.0
Toluene-d8 (Surr)	Ave	2.445	2.361		24.1	25.0	-3.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7908	0.7607		24.0	25.0	-3.8	50.0

Report Date: 15-Apr-2013 09:45:00 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7110.D
Lims ID: CCVIS Client ID:
Inject. Date: 15-Apr-2013 09:26:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: CCVIS
Misc. Info.: 480-0020599-002
Operator: TRB Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 112867 Lims Sample ID: 2
Sublist: chrom-Q-8260*sub1
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m
Last Update: 15-Apr-2013 09:44:59 Calib Date: 11-Apr-2013 14:40:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: BrandtT Date: 15-Apr-2013 09:44:59

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
*	1 1,4-Difluorobenzene	114	5.012	5.012	0.0	94	596734	25.0	
*	2 Chlorobenzene-d5	82	7.202	7.202	0.0	84	269266	25.0	
*	3 1,4-Dichlorobenzene-d4	152	9.063	9.063	0.0	85	267861	25.0	
$	4 1,2-Dichloroethane-d4 (Surr)	67	4.702	4.702	0.0	94	87451	25.0	
$	5 Toluene-d8 (Surr)	98	6.095	6.095	0.0	92	635733	24.1	
$	6 4-Bromofluorobenzene (Surr)	174	8.133	8.133	0.0	94	204828	24.0	
	10 Dichlorodifluoromethane	85	1.362	1.362	0.0	98	198830	25.1	
	12 Chloromethane	50	1.508	1.508	0.0	89	295344	25.3	
	13 Vinyl chloride	62	1.599	1.599	0.0	83	194010	27.7	
	14 Bromomethane	94	1.879	1.879	0.0	89	40960	19.7	
	15 Chloroethane	64	1.958	1.958	0.0	94	63339	25.7	
	17 Trichlorofluoromethane	101	2.189	2.189	0.0	99	258243	26.3	
	20 Acrolein	56	2.609	2.609	0.0	97	820584	584.0	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.651	2.651	0.0	81	166582	26.4	
	22 1,1-Dichloroethene	96	2.657	2.657	0.0	96	169491	24.7	
	23 Acetone	43	2.749	2.749	0.0	100	386540	133.5	
	25 Iodomethane	142	2.791	2.791	0.0	95	119858	14.6	
	26 Carbon disulfide	76	2.834	2.834	0.0	99	525131	25.3	
	29 Acetonitrile	40	2.992	2.992	0.0	99	752302	1113.5	
	27 Methyl acetate	43	3.010	3.010	0.0	97	317821	27.1	
	30 Methylene Chloride	84	3.095	3.095	0.0	91	201753	22.6	
	32 Methyl tert-butyl ether	73	3.296	3.296	0.0	91	553759	25.2	
	34 trans-1,2-Dichloroethene	96	3.302	3.302	0.0	98	191097	24.8	
	33 Acrylonitrile	53	3.314	3.314	0.0	98	500686	141.2	
	39 1,1-Dichloroethane	63	3.643	3.643	0.0	97	365881	25.2	
	37 Vinyl acetate	43	3.679	3.679	0.0	97	2155782	145.6	
	44 2,2-Dichloropropane	77	4.075	4.075	0.0	89	235485	26.9	
	45 cis-1,2-Dichloroethene	96	4.093	4.093	0.0	70	214947	24.4	
	43 2-Butanone (MEK)	43	4.111	4.111	0.0	94	639147	138.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.276	4.276	0.0	91	112033	24.4	
49 Tetrahydrofuran	42	4.306	4.306	0.0	93	439200	144.8	
50 Chloroform	83	4.337	4.337	0.0	82	316347	24.5	
51 1,1,1-Trichloroethane	97	4.452	4.452	0.0	97	257228	25.3	
52 Cyclohexane	56	4.470	4.470	0.0	93	364140	27.0	
55 Carbon tetrachloride	117	4.568	4.568	0.0	77	229432	26.4	
54 1,1-Dichloropropene	75	4.568	4.568	0.0	92	264323	25.1	
57 Benzene	78	4.726	4.726	0.0	97	785750	25.0	
58 1,2-Dichloroethane	62	4.756	4.756	0.0	87	255541	24.9	
62 Trichloroethene	95	5.200	5.200	0.0	92	193476	24.5	
64 Methylcyclohexane	83	5.316	5.316	0.0	93	307454	26.7	
65 1,2-Dichloropropane	63	5.377	5.377	0.0	95	224728	25.7	
67 Dibromomethane	93	5.474	5.474	0.0	87	126543	24.9	
68 Dichlorobromomethane	83	5.590	5.590	0.0	98	251170	25.6	
69 2-Chloroethyl vinyl ether	63	5.797	5.797	0.0	91	790251	134.5	
72 cis-1,3-Dichloropropene	75	5.906	5.906	0.0	89	336142	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.009	0.0	97	1401837	144.7	
74 Toluene	92	6.143	6.143	0.0	98	482108	23.9	
77 trans-1,3-Dichloropropene	75	6.326	6.326	0.0	91	304018	24.0	
75 Ethyl methacrylate	69	6.368	6.368	0.0	92	295021	26.4	
79 1,1,2-Trichloroethane	83	6.472	6.472	0.0	91	161314	25.4	
81 Tetrachloroethene	166	6.557	6.557	0.0	92	212957	24.3	
82 1,3-Dichloropropane	76	6.593	6.593	0.0	90	345202	25.4	
80 2-Hexanone	43	6.636	6.636	0.0	98	983449	144.4	
83 Chlorodibromomethane	129	6.776	6.776	0.0	90	221526	26.0	
84 Ethylene Dibromide	107	6.861	6.861	0.0	98	212541	24.8	
87 Chlorobenzene	112	7.226	7.226	0.0	95	581272	24.6	
89 1,1,1,2-Tetrachloroethane	131	7.293	7.293	0.0	95	199913	26.1	
88 Ethylbenzene	91	7.293	7.293	0.0	98	900209	24.6	
90 m-Xylene & p-Xylene	106	7.384	7.384	0.0	97	744871	49.7	
91 o-Xylene	106	7.701	7.701	0.0	95	373620	24.7	
92 Styrene	104	7.719	7.719	0.0	96	624899	24.7	
95 Bromoform	173	7.895	7.895	0.0	98	150908	23.2	
94 Isopropylbenzene	105	7.987	7.987	0.0	95	924360	25.2	
101 Bromobenzene	156	8.254	8.254	0.0	95	239389	24.1	
97 1,1,2,2-Tetrachloroethane	83	8.260	8.260	0.0	95	276632	27.3	
100 1,2,3-Trichloropropane	110	8.297	8.297	0.0	77	82149	26.4	
98 trans-1,4-Dichloro-2-butene	53	8.297	8.297	0.0	93	344487	138.9	
99 N-Propylbenzene	91	8.315	8.315	0.0	99	1060065	25.9	
103 2-Chlorotoluene	126	8.400	8.400	0.0	97	220015	24.9	
102 1,3,5-Trimethylbenzene	105	8.455	8.455	0.0	74	733903	25.2	
105 4-Chlorotoluene	126	8.485	8.485	0.0	95	229922	25.4	
106 tert-Butylbenzene	134	8.717	8.717	0.0	91	171258	25.2	
107 1,2,4-Trimethylbenzene	105	8.759	8.759	0.0	96	731881	24.9	
109 sec-Butylbenzene	105	8.893	8.893	0.0	93	904353	25.3	
111 1,3-Dichlorobenzene	146	9.009	9.009	0.0	75	437802	24.7	
110 4-Isopropyltoluene	119	9.009	9.009	0.0	97	730261	25.1	
113 1,4-Dichlorobenzene	146	9.082	9.082	0.0	95	446860	24.5	
115 n-Butylbenzene	91	9.349	9.349	0.0	97	614167	25.7	
116 1,2-Dichlorobenzene	146	9.392	9.392	0.0	98	427922	24.4	
117 1,2-Dibromo-3-Chloropropane	75	10.043	10.043	0.0	83	43588	27.5	
119 1,2,4-Trichlorobenzene	180	10.718	10.718	0.0	94	233830	23.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.834	10.834	0.0	96	79516	23.6	
121 Naphthalene	128	10.919	10.919	0.0	97	565524	24.1	
122 1,2,3-Trichlorobenzene	180	11.113	11.113	0.0	94	181837	22.8	
S 125 1,2-Dichloroethene, Total	1				0		49.3	
S 126 1,3-Dichloropropene, Total	1				0		50.4	
S 123 Total BTEX	1				0		147.9	
S 124 Xylenes, Total	1				0		74.4	

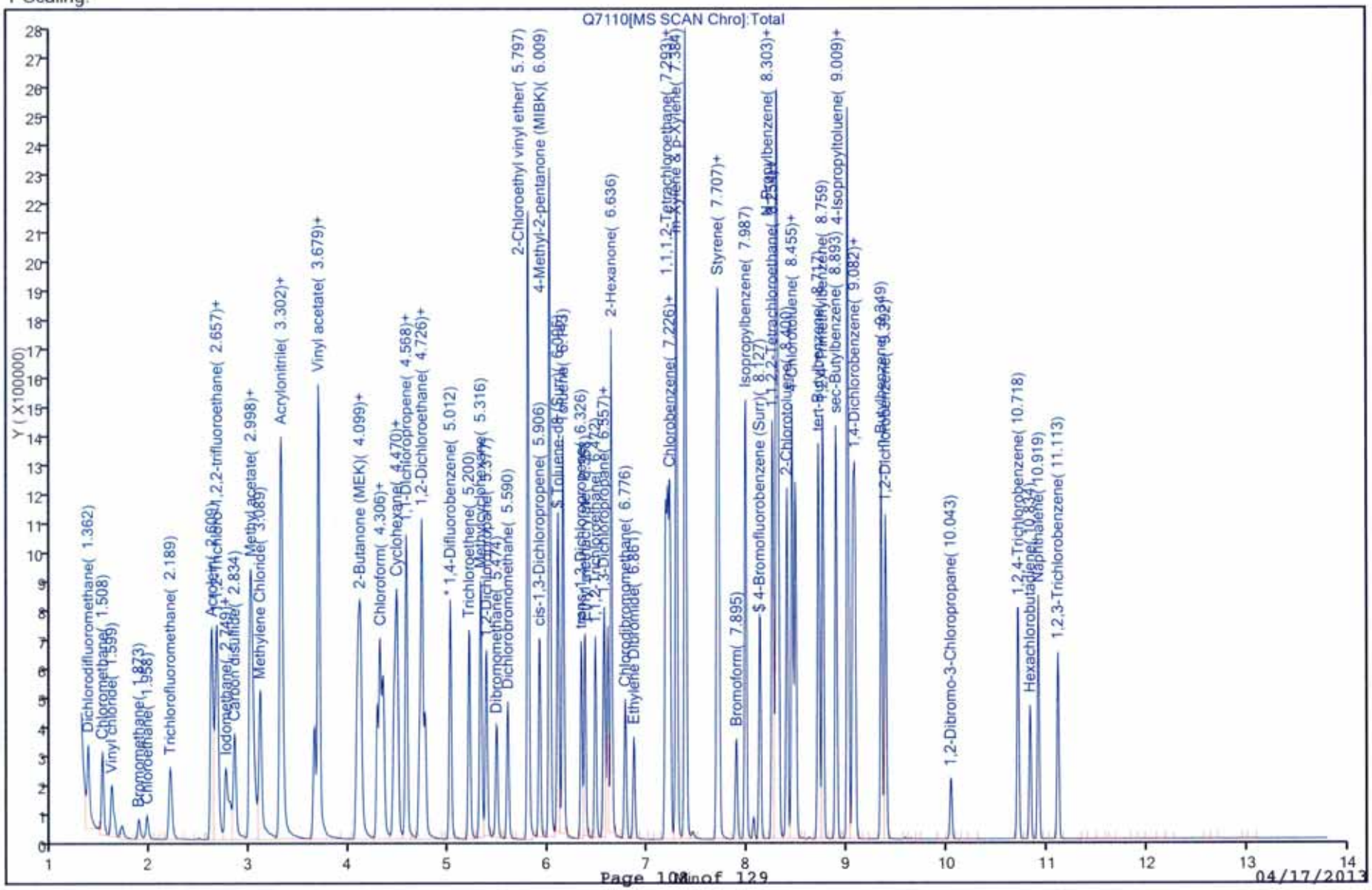
Report Date: 15-Apr-2013 09:45:00 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7110.D

Injection Date:	15-Apr-2013 09:26:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	2
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

Report Date: 11-Apr-2013 11:32:34 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6992.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	11-Apr-2013 11:23:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0020501-001		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	112223	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q-8260.m		
Last Update:	11-Apr-2013 11:32:33	Calib Date:	10-Apr-2013 14:08:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130410-20456.b\Q6982.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK005		

First Level Reviewer: BrandtT Date: 11-Apr-2013 11:32:33

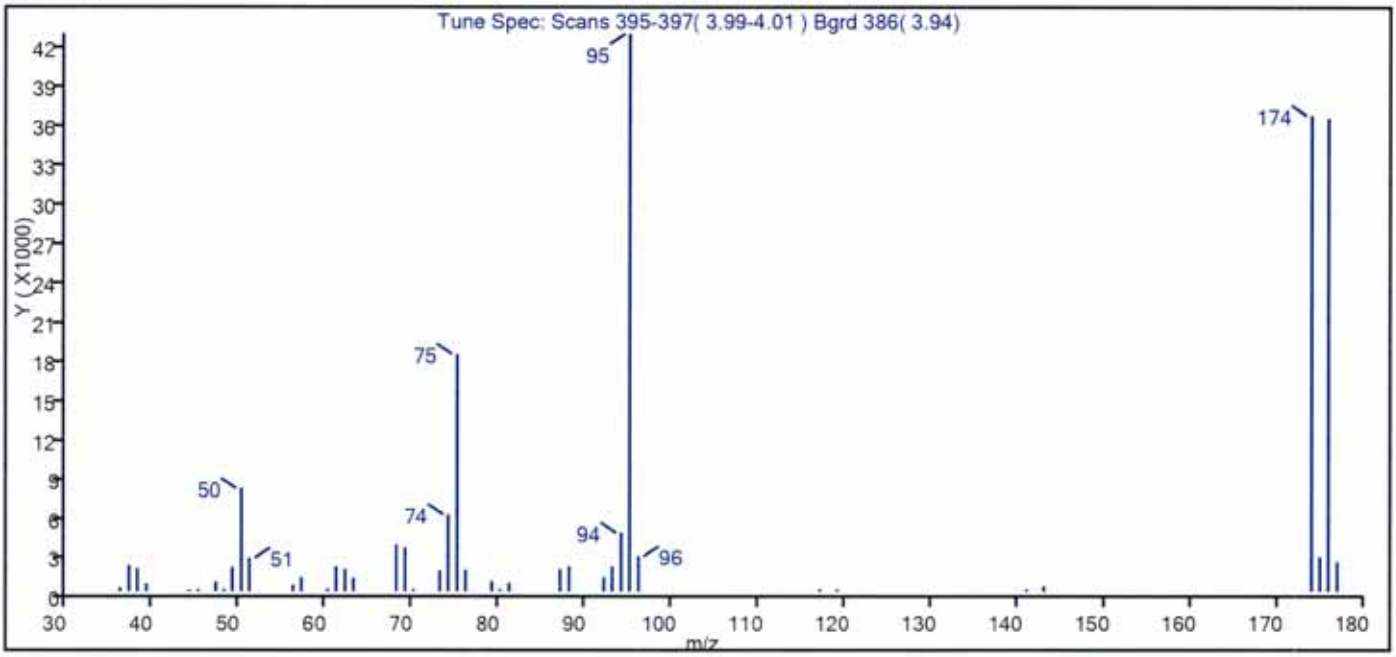
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 61 BFB	95	4.000	4.000	0.0	0	110713	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6992.D		
Injection Date:	11-Apr-2013 11:23:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112223	Lims Sample ID:	1
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.52
75	30.00 - 60.00% of mass 95	42.66
96	5.00 - 9.00% of mass 95	6.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	85.42
175	5.00 - 9.00% of mass 174	6.21 (7.27)
176	95.00 - 101.00% of mass 174	84.89 (99.38)
177	5.00 - 9.00% of mass 176	5.26 (6.19)

Report Date: 11-Apr-2013 11:32:34 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Data File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6992.D\Q-8260.rslt\spectra.d
Injection Date: 11-Apr-2013 11:23:30
Spectrum: Tune Spec: Scans 395-397(3.99-4.01) Bgrd 386(3.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	289	56.00	502	75.00	18144	96.00	2665
37.00	1922	57.00	1067	76.00	1606	117.00	135
38.00	1681	60.00	166	79.00	765	119.00	121
39.00	564	61.00	1863	80.00	117	141.00	119
44.00	74	62.00	1635	81.00	623	143.00	391
45.00	157	63.00	1034	87.00	1655	174.00	36328
47.00	732	68.00	3601	88.00	1841	175.00	2640
48.00	123	69.00	3314	92.00	1059	176.00	36104
49.00	1808	70.00	119	93.00	1820	177.00	2236
50.00	7877	73.00	1553	94.00	4510		
51.00	2539	74.00	5897	95.00	42528		

Report Date: 15-Apr-2013 09:15:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7109.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	15-Apr-2013 08:55:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0020599-001		
Operator:	TRB	Instrument ID:	HP5973Q
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	112867	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m		
Last Update:	15-Apr-2013 09:15:36	Calib Date:	11-Apr-2013 14:40:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D		
Limit Group:	MV - 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK009		

First Level Reviewer: BrandtT Date: 15-Apr-2013 09:15:36

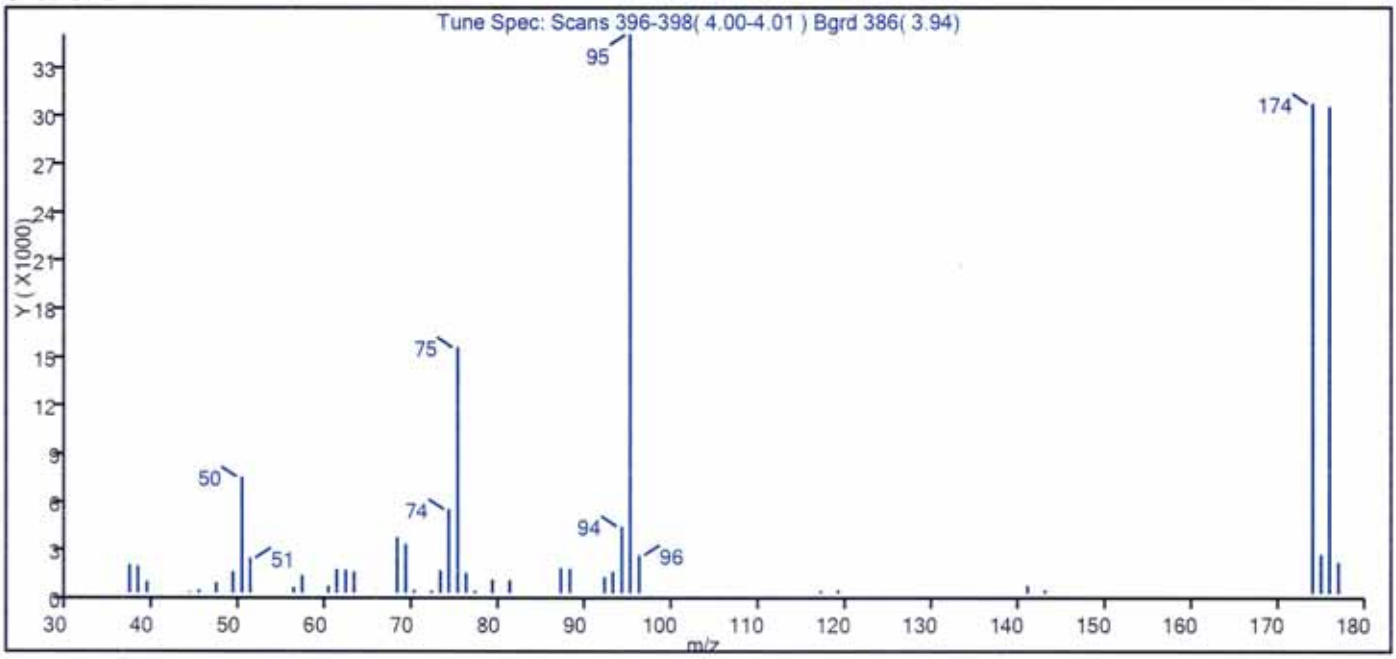
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 61 BFB	95	4.003	4.003	0.0	0	94157	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7109.D		
Injection Date:	15-Apr-2013 08:55:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	1
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.82
75	30.00 - 60.00% of mass 95	43.96
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.65
175	5.00 - 9.00% of mass 174	6.86 (7.83)
176	95.00 - 101.00% of mass 174	87.12 (99.39)
177	5.00 - 9.00% of mass 176	5.51 (6.33)

Report Date: 15-Apr-2013 09:15:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7109.D\Q-8260.rslt\spectra.d
Injection Date: 15-Apr-2013 08:55:30
Spectrum: Tune Spec: Scans 396-398(4.00-4.01) Bgrd 386(3.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1726	60.00	384	76.00	1235	117.00	128
38.00	1638	61.00	1466	77.00	124	119.00	145
39.00	683	62.00	1415	79.00	776	141.00	416
44.00	32	63.00	1295	81.00	751	143.00	161
45.00	145	68.00	3428	87.00	1518	174.00	30312
47.00	599	69.00	2991	88.00	1484	175.00	2372
49.00	1311	70.00	135	92.00	962	176.00	30128
50.00	7201	72.00	120	93.00	1317	177.00	1907
51.00	2142	73.00	1369	94.00	4127		
56.00	316	74.00	5177	95.00	34584		
57.00	1056	75.00	15202	96.00	2323		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-112867/4

Matrix: Water | Lab File ID: Q7112.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 10:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Chlorodibromomethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-112867/4

Matrix: Water | Lab File ID: Q7112.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 10:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
2037-26-5	Toluene-d8 (Surr)	98		71-126
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7112.D
Lims ID: MB Client ID:
Inject. Date: 15-Apr-2013 10:26:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: MB
Misc. Info.: 480-0020599-004
Operator: TRB Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 112867 Lims Sample ID: 4
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m
Last Update: 15-Apr-2013 10:57:55 Calib Date: 11-Apr-2013 14:40:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: BrandtT Date: 15-Apr-2013 10:57:55

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
*	1 1,4-Difluorobenzene	114	5.014	5.012	0.002	94	546844	25.0	
*	2 Chlorobenzene-d5	82	7.204	7.202	0.002	85	253451	25.0	
*	3 1,4-Dichlorobenzene-d4	152	9.065	9.063	0.002	94	255375	25.0	
$	4 1,2-Dichloroethane-d4 (Surr)	67	4.703	4.702	0.001	94	84794	26.5	
$	5 Toluene-d8 (Surr)	98	6.090	6.095	-0.005	94	605519	24.4	
$	6 4-Bromofluorobenzene (Surr)	174	8.128	8.133	-0.005	91	194928	24.3	
	10 Dichlorodifluoromethane	85		1.362					
	12 Chloromethane	50		1.508					
	13 Vinyl chloride	62		1.599					
	11 Chlorodifluoromethane	51		1.687					
	14 Bromomethane	94		1.879					
	15 Chloroethane	64		1.958					
	17 Trichlorofluoromethane	101		2.189					
	16 Dichlorofluoromethane	67		2.431					
	18 Ethyl ether	59		2.461					
	20 Acrolein	56		2.609					
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.651					
	22 1,1-Dichloroethene	96		2.657					
	19 Propene oxide	58		2.741					
	23 Acetone	43		2.749					
	25 Iodomethane	142	2.799	2.791	0.008	48	1699	1.35	
	26 Carbon disulfide	76		2.834					
	24 Isopropyl alcohol	45		2.925					
	29 Acetonitrile	40		2.992					9
	27 Methyl acetate	43		3.010					
	28 3-Chloro-1-propene	41		3.053					
	30 Methylene Chloride	84		3.095					
	31 2-Methyl-2-propanol	59		3.283					
	32 Methyl tert-butyl ether	73		3.296					
	34 trans-1,2-Dichloroethene	96		3.302					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
33 Acrylonitrile	53		3.314					
35 Hexane	57		3.477					
36 Isopropyl ether	45		3.571					
40 2-Chloro-1,3-butadiene	53		3.638					
39 1,1-Dichloroethane	63		3.643					
37 Vinyl acetate	43		3.679					
38 1,1-Dimethoxyethane	75		3.721					
41 Tert-butyl ethyl ether	59		3.802					
46 Propionitrile	54		4.016					
44 2,2-Dichloropropane	77		4.075					
45 cis-1,2-Dichloroethene	96		4.093					
42 Ethyl acetate	43		4.104					
47 Methacrylonitrile	41		4.107					
43 2-Butanone (MEK)	43		4.111					
48 Chlorobromomethane	128		4.276					
49 Tetrahydrofuran	42		4.306					
50 Chloroform	83		4.337					9
51 1,1,1-Trichloroethane	97		4.452					
53 Isobutyl alcohol	43		4.463					
52 Cyclohexane	56		4.470					
56 Tert-amyl methyl ether	73		4.546					
55 Carbon tetrachloride	117		4.568					
54 1,1-Dichloropropene	75		4.568					
59 n-Heptane	43		4.619					
57 Benzene	78		4.726					9
58 1,2-Dichloroethane	62		4.756					
60 n-Butanol	56		4.822					9
66 1,4-Dioxane	88		5.004					9
62 Trichloroethene	95		5.200					9
63 Methyl methacrylate	41		5.308					
64 Methylcyclohexane	83		5.316					
65 1,2-Dichloropropane	63		5.377					
70 2-Nitropropane	43		5.430					
67 Dibromomethane	93		5.474					
71 Epichlorohydrin	57		5.534					
68 Dichlorobromomethane	83		5.590					
69 2-Chloroethyl vinyl ether	63		5.797					
72 cis-1,3-Dichloropropene	75		5.906					
76 2-Methylthiophene	97		5.918					
78 3-Methylthiophene	97		5.934					
73 4-Methyl-2-pentanone (MIBK)	43		6.009					9
74 Toluene	92		6.143					9
77 trans-1,3-Dichloropropene	75		6.326					
75 Ethyl methacrylate	69		6.368					
79 1,1,2-Trichloroethane	83		6.472					
81 Tetrachloroethene	166		6.557					
82 1,3-Dichloropropane	76		6.593					
80 2-Hexanone	43		6.636					
83 Chlorodibromomethane	129		6.776					
85 3-Chlorobenzotrifluoride	180		6.796					
86 4-Chlorobenzotrifluoride	180		6.838					
84 Ethylene Dibromide	107		6.861					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 Chlorobenzene	112		7.226					9
89 1,1,1,2-Tetrachloroethane	131		7.293					
88 Ethylbenzene	91		7.293					9
90 m-Xylene & p-Xylene	106		7.384					9
93 2-Chlorobenzotrifluoride	180		7.527					
91 o-Xylene	106		7.701					9
92 Styrene	104		7.719					
96 Cyclohexanone	55		7.735					
95 Bromoform	173		7.895					
94 Isopropylbenzene	105		7.987					9
104 3-Chlorotoluene	126		8.082					
101 Bromobenzene	156		8.254					
97 1,1,2,2-Tetrachloroethane	83		8.260					
108 Pentachloroethane	167		8.265					
100 1,2,3-Trichloropropane	110		8.297					
98 trans-1,4-Dichloro-2-butene	53		8.297					
99 N-Propylbenzene	91		8.315					9
103 2-Chlorotoluene	126		8.400					
102 1,3,5-Trimethylbenzene	105		8.455					9
105 4-Chlorotoluene	126		8.485					
114 Dicyclopentadiene	66		8.715					
106 tert-Butylbenzene	134		8.717					
107 1,2,4-Trimethylbenzene	105		8.759					9
109 sec-Butylbenzene	105		8.893					9
112 1,2,3-Trimethylbenzene	105		9.007					9
111 1,3-Dichlorobenzene	146		9.009					9
110 4-Isopropyltoluene	119		9.009					9
113 1,4-Dichlorobenzene	146		9.082					9
115 n-Butylbenzene	91		9.349					9
116 1,2-Dichlorobenzene	146		9.392					9
118 1,3,5-Trichlorobenzene	180		9.850					
117 1,2-Dibromo-3-Chloropropane	75		10.043					
119 1,2,4-Trichlorobenzene	180		10.718					9
120 Hexachlorobutadiene	225		10.834					9
121 Naphthalene	128		10.919					9
122 1,2,3-Trichlorobenzene	180		11.113					9
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
S 123 Total BTEX	1		30.000					7
S 124 Xylenes, Total	1		30.000					7
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 127 Ethanol TIC	45		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 7 Ethylene oxide	44		1.872					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

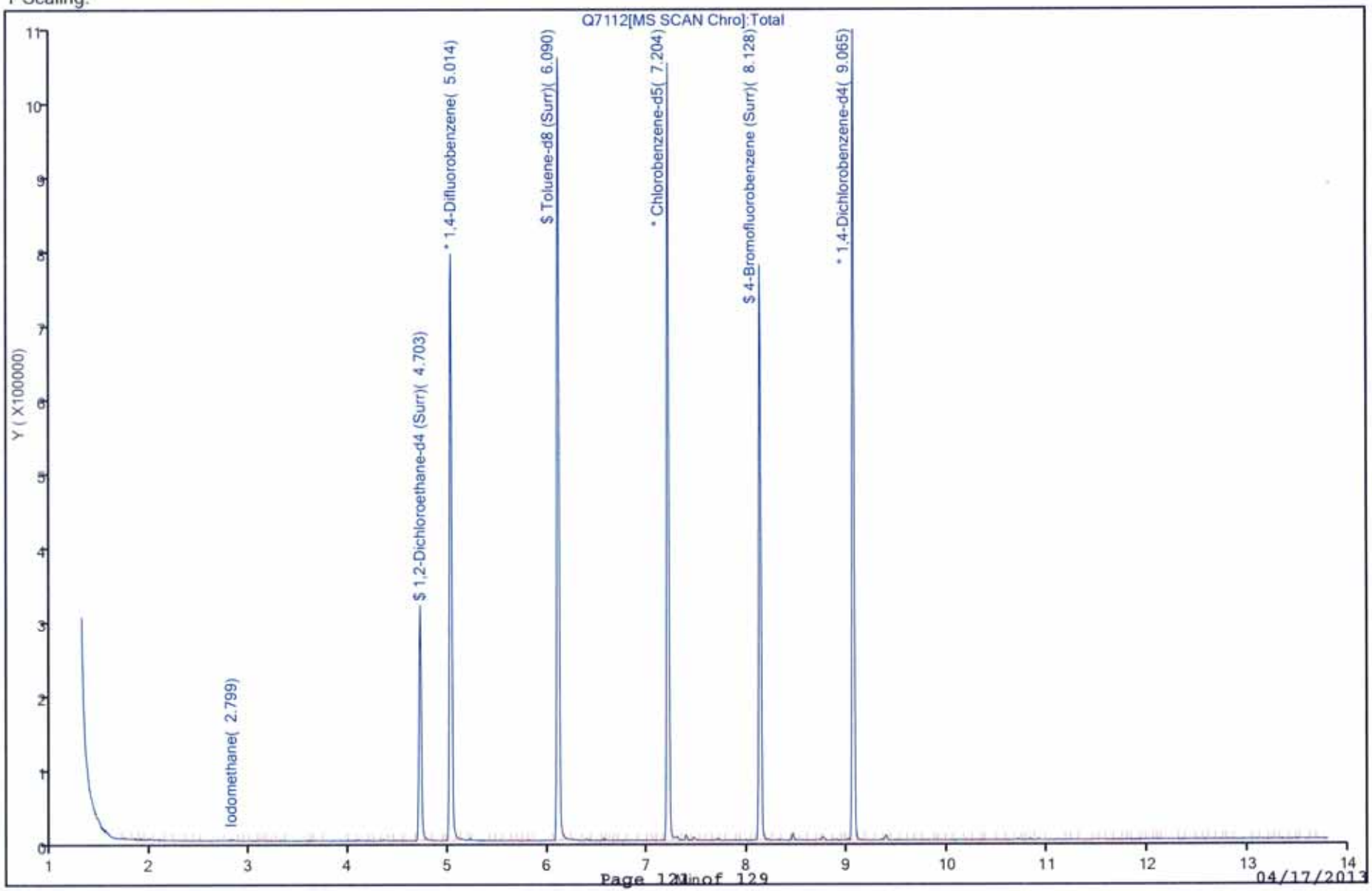
Report Date: 15-Apr-2013 10:57:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7112.D

Injection Date:	15-Apr-2013 10:26:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	4
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-35891-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-112867/3

Matrix: Water | Lab File ID: Q7111.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/15/2013 09:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 112867 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	26.1		1.0	0.38
75-35-4	1,1-Dichloroethene	22.5		1.0	0.29
95-50-1	1,2-Dichlorobenzene	25.9		1.0	0.79
107-06-2	1,2-Dichloroethane	26.8		1.0	0.21
540-59-0	1,2-Dichloroethene, Total	52.2		2.0	0.70
71-43-2	Benzene	27.1		1.0	0.41
108-90-7	Chlorobenzene	26.0		1.0	0.75
156-59-2	cis-1,2-Dichloroethene	25.3		1.0	0.81
100-41-4	Ethylbenzene	25.7		1.0	0.74
1634-04-4	Methyl tert-butyl ether	27.3		1.0	0.16
127-18-4	Tetrachloroethene	24.8		1.0	0.36
108-88-3	Toluene	25.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.9		1.0	0.90
79-01-6	Trichloroethene	25.3		1.0	0.46
1330-20-7	Xylenes, Total	76.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
2037-26-5	Toluene-d8 (Surr)	97		71-126
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120

Report Date: 15-Apr-2013 10:25:30 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7111.D
Lims ID: LCS Client ID:
Inject. Date: 15-Apr-2013 09:59:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.: 480-0020599-003
Operator: TRB Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 112867 Lims Sample ID: 3
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q-8260.m
Last Update: 15-Apr-2013 10:25:30 Calib Date: 11-Apr-2013 14:40:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130411-20501.b\Q6998.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: BrandtT Date: 15-Apr-2013 10:25:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.013	5.012	0.001	94	563032	25.0	
* 2 Chlorobenzene-d5	82	7.203	7.202	0.001	85	259445	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.065	9.063	0.002	94	259465	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.703	4.702	0.001	87	86006	26.1	
$ 5 Toluene-d8 (Surr)	98	6.096	6.095	0.001	93	616902	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.128	8.133	-0.005	91	193646	23.6	
22 1,1-Dichloroethene	96	2.659	2.657	0.002	90	145544	22.5	
32 Methyl tert-butyl ether	73	3.291	3.296	-0.005	92	565447	27.3	
34 trans-1,2-Dichloroethene	96	3.298	3.302	-0.004	96	195403	26.9	
39 1,1-Dichloroethane	63	3.638	3.643	-0.005	85	357578	26.1	
45 cis-1,2-Dichloroethene	96	4.088	4.093	-0.005	82	210143	25.3	
57 Benzene	78	4.727	4.726	0.001	97	804837	27.1	
58 1,2-Dichloroethane	62	4.758	4.756	0.002	92	259705	26.8	
62 Trichloroethene	95	5.202	5.200	0.002	96	189005	25.3	
74 Toluene	92	6.145	6.143	0.002	98	491408	25.2	
81 Tetrachloroethene	166	6.558	6.557	0.001	97	210204	24.8	
87 Chlorobenzene	112	7.227	7.226	0.001	96	592150	26.0	
88 Ethylbenzene	91	7.294	7.293	0.001	98	903722	25.7	
90 m-Xylene & p-Xylene	106	7.386	7.384	0.002	97	740866	51.3	
91 o-Xylene	106	7.702	7.701	0.001	96	371955	25.5	
107 1,2,4-Trimethylbenzene	105	8.761	8.759	0.001	97	746281	26.2	
116 1,2-Dichlorobenzene	146	9.393	9.392	0.001	98	439720	25.9	
S 125 1,2-Dichloroethene, Total	1				0		52.2	
S 124 Xylenes, Total	1				0		76.9	

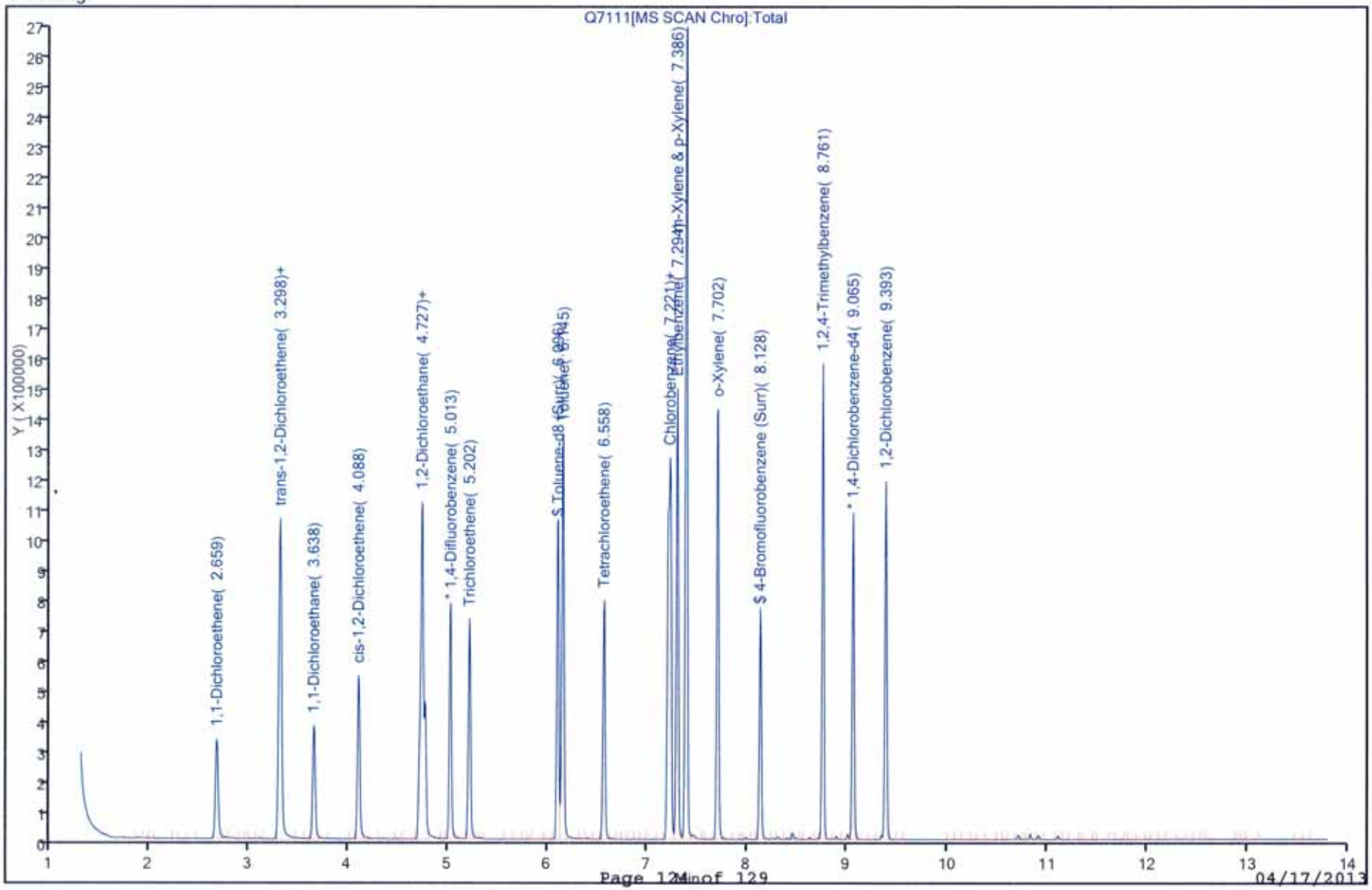
Report Date: 15-Apr-2013 10:25:30 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130415-20599.b\Q7111.D

Injection Date:	15-Apr-2013 09:59:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	112867	Lims Sample ID:	3
Operator ID:	TRB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



04/17/2013

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Instrument ID: HP5973Q Start Date: 04/11/2013 11:23

Analysis Batch Number: 112223 End Date: 04/11/2013 16:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-112223/1		04/11/2013 11:23	1	Q6992.D	ZB-624 (60) 0.25(mm)
IC 480-112223/2		04/11/2013 11:47	1	Q6993.D	ZB-624 (60) 0.25(mm)
IC 480-112223/3		04/11/2013 12:14	1	Q6994.D	ZB-624 (60) 0.25(mm)
IC 480-112223/4		04/11/2013 13:18	1	Q6995.D	ZB-624 (60) 0.25(mm)
ICIS 480-112223/5		04/11/2013 13:45	1	Q6996.D	ZB-624 (60) 0.25(mm)
IC 480-112223/6		04/11/2013 14:13	1	Q6997.D	ZB-624 (60) 0.25(mm)
IC 480-112223/7		04/11/2013 14:40	1	Q6998.D	ZB-624 (60) 0.25(mm)
MDLV 480-112223/10		04/11/2013 16:03	1		ZB-624 (60) 0.25(mm)
ICV 480-112223/11		04/11/2013 16:30	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-35891-1

SDG No.:

Instrument ID: HP5973Q Start Date: 04/15/2013 08:55

Analysis Batch Number: 112867 End Date: 04/15/2013 20:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-112867/1		04/15/2013 08:55	1	Q7109.D	ZB-624 (60) 0.25(mm)
CCVIS 480-112867/2		04/15/2013 09:26	1	Q7110.D	ZB-624 (60) 0.25(mm)
LCS 480-112867/3		04/15/2013 09:59	1	Q7111.D	ZB-624 (60) 0.25(mm)
MB 480-112867/4		04/15/2013 10:26	1	Q7112.D	ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 11:11	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 11:39	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 12:07	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 12:34	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 13:02	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 13:29	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 13:57	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 14:25	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 14:52	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 15:20	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 15:47	1		ZB-624 (60) 0.25(mm)
480-35891-1	MW-06S-04/13	04/15/2013 16:15	200	Q7124.D	ZB-624 (60) 0.25(mm)
480-35891-2	MW-06D-04/13	04/15/2013 16:43	200	Q7125.D	ZB-624 (60) 0.25(mm)
480-35891-3	MW-07S-04/13	04/15/2013 17:10	1	Q7126.D	ZB-624 (60) 0.25(mm)
480-35891-4	MW-07D-04/13	04/15/2013 17:38	1	Q7127.D	ZB-624 (60) 0.25(mm)
480-35891-5	TRIP BLANK	04/15/2013 18:05	1	Q7128.D	ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 18:33	10		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 19:00	10		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 19:28	10		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 19:56	1		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 20:23	10		ZB-624 (60) 0.25(mm)
ZZZZZ		04/15/2013 20:50	10		ZB-624 (60) 0.25(mm)

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

URS

PROJECT NO.	SITE NAME
11176866.0000	Dunlop Warehouse

SAMPLERS (PRINT/SIGNATURE): Kevin J. McGowan

DELIVERY SERVICE: Drop off AIRBILL NO.:

LAB: Test America

COOLER: 1 of 1

PAGE: 1 of 1

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8260 BTEX w/HCL	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IF REQUIRED)
MW-065	4/3/13	12:55	Grab	MW-065-04/13	WG	3	3		N1			
MW-067	"	12:14	"	MW-067-04/13	"	"	"		"			
MW-075	"	11:05	"	MW-075-04/13	"	"	"		"			
MW-070	"	09:59	"	MW-070-04/13	"	"	"		"			
—	—	—	—	Trip Blank	—	1	1		TB1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	4/9/13	14:28		4/9/13	14:28
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Standard TAT
Call George Hislop 716-923-1321
Melissa Deyo Lab PM

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CoICR/GCM

#3 5.1

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 480-35891-1

Login Number: 35891
List Number: 1
Creator: Stau, Brandon

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	URS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



July 2013
Groundwater Sampling Report
for the
Former Dowell Facility
3311 Walden Avenue
Depew, New York

prepared for:

Volunteers
Dowell, a Division of Schlumberger Technology Corporation
Dowell Schlumberger Incorporated
The Dow Chemical Company
(VCA INDEX NO. B9-0586-00-10)

prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

August 2013

G3957T

JULY 2013 GROUNDWATER SAMPLING REPORT

FOR THE

FORMER DOWELL FACILITY
3311 WALDEN AVENUE
DEPEW, NEW YORK

Prepared for:

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AUGUST 2013

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1.0 INTRODUCTION

1.1 Site History

Dowell, a Division of Schlumberger Technology Corporation, the Dow Chemical Company and Dowell Schlumberger Incorporated (the Volunteers) completed a remedial action at the former Dowell facility located at 3311 – 3315 Walden Avenue in Buffalo, New York (Site) (Figure 1-1). This work was performed under the Voluntary Cleanup Agreement (VCA) between the Volunteers and the New York State Department of Environmental Conservation (NYSDEC) (VCA Index No. B9-0586-00-10).

A long-term monitoring program has been conducted at the Site since the completion of the Site remediation in May 2004, and includes quarterly groundwater sampling of the on-site monitoring wells and the collection of groundwater elevations from the monitoring wells and piezometers. The analytical results, provided on Table 2-2, are compared with the applicable standards, criteria and guidance (SCG) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The monitoring performed between May 2004 and March 2008 has determined that the volatile organic compound (VOC) concentrations in groundwater at the Site had fallen below the SCGs in all of the on-site monitoring wells with the exception of monitoring wells MW-06S and MW-06D which are located at the north side of the Site relatively close to Walden Avenue (Figure 1-2). Monitoring well MW-06S is screened from 10 feet to 20 feet below grade in the

shallow water-bearing zone, and monitoring well MW-06D is screened from 20 feet to 30 feet below grade in the deep water-bearing zone. The analytical data over this period has shown that:

- Three VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06S: 1,1-DCE from below detection limits to 470 µg/L, 1,1-DCA from 170 µg/L to 13,000 µg/L and 1,1,1-TCA from 280 µg/L to 1,300 µg/L.
- Two VOCs were typically present at concentrations that exceeded the SCGs at monitoring well MW-06D: 1,1- DCA from 230 µg/L to 22,000 µg/L and 1,1,1-TCA from below detection limits to 1,200 µg/L.

Based on the analytical data, the NYSDEC and the New York State Department of Health (NYSDOH) expressed concerns that the VOCs in the vicinity of monitoring wells MW-06S and MW-06D could potentially be migrating off-site, and that residential properties on the north side of Walden Avenue might be impacted by VOCs volatilizing from the groundwater.

Consequently, on April 17, 2008, a limited subsurface investigation was conducted on the north side of Walden Avenue between Lincoln Street and Brewster Street. The investigation consisted of installation of three soil borings, screening of soil samples for VOCs and, collection/analysis of groundwater samples for Target Compound List (TCL) VOC analysis.

The analytical data for the samples indicated that no chlorinated VOCs were present above detectable concentrations in any of the three groundwater samples. It was concluded that the chlorinated solvents associated with groundwater in the vicinity of monitoring wells MW-06S and MW-06D had not migrated across Walden Avenue. Consequently, there was no potential for volatilization of chlorinated VOCs from the groundwater resulting in vapor intrusion to the residences on the north side of Walden Avenue.

In order to complete the remedial activities at the Site and complete the project, the NYSDEC requested in correspondence dated March 2, 2009 that an alternatives analysis be performed to determine what, if any, additional measures might be required to address the area surrounding monitoring wells MW-06S and MW-06D.

It was concluded that there was likely a localized residual source of chlorinated solvents in the soils and/or groundwater in the immediate vicinity of monitoring wells MW-06S and MW-06D based on the analytical results. The alternatives analysis concluded that in situ chemical oxidation (ISCO) was considered the most applicable, well-developed, and cost-effective technology for treating VOCs in soil and groundwater in the primary source area around monitoring wells MW-06S and MW-06D since this technology relies on chemical reactions rather than biological processes to degrade the VOCs.

Subsequently, in June 2009, six injection wells were installed in an arc approximately five feet up-gradient of monitoring wells MW-06S and MW-06D. Three of the injection wells (IW-01S, IW-02S, and IW-03S) were screened in the 5.0- to 20.0-foot interval (the upper water-bearing zone) and three of the injection wells (IW-04D, IW-05D, and IW-06D) were screened in the 20.0- to 30.0-foot interval (the deep water-bearing zone). At the request of the NYSDEC, the location of injection well IW-06D was moved west-northwest of monitoring well MW-06D.

Following the installation of the injection wells, a program to routinely purge monitoring wells MW-06S and MW-06D and inject a solution of eight percent (8%) hydrogen peroxide (H_2O_2) and sodium persulfate ($Na_2O_8S_2$). into the six injection wells was implemented. Samples of the purge water from monitoring wells MW-06S and MW-06D were tested on site for temperature and dissolved oxygen to determine if the ISCO program was impacting the groundwater entering the monitoring wells.

During the period from August 6, 2009 to September 4, 2009 a total of 257.55 gallons of $H_2O_2/Na_2O_8S_2$ was introduced into the injection wells, 133.65 gallons of purge water was removed from monitoring well MW-06S, and 110.50 gallons of purge water was removed from monitoring well MW-06D. Over the same period the dissolved oxygen levels in the purge water removed from monitoring well MW-06S increased from 9.10 mg/L to 35.74 mg/L while the dissolved oxygen levels in the purge water removed from monitoring well MW-06D increased from 4.90 mg/L to 16.47 mg/L.

Based on the September 2009 analytical results which showed that VOC concentrations remained elevated in MW-06S/06D, injections of the $H_2O_2/Na_2O_8S_2$ mixture resumed on October 5, 2009. The injections of the $H_2O_2/Na_2O_8S_2$ mixture continued through November 24, 2009 at a

rate of two to three injections per week at which time the injections were discontinued. The remaining H_2O_2 was poured into recovery wells RW-01 and RW-02, which are located in the former excavation area, to help polish low levels of VOCs observed in the groundwater in these wells.

As required by the RAWP, a final set of groundwater samples were collected from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S, and MW-07D as well as from recovery well RW-01 on December 8, 2009, and the samples analyzed for TCL VOCs. The groundwater sampling results were discussed in the Final Remedial Action Report dated May 2010 and are also presented in Table 2-2 of this report.

1.2 Site Management Plan

In May 2011, URS Corporation (URS) generated a *Site Management Plan* (SMP). The SMP summarizes the remedial history of the Site, outlines engineering and institutional controls placed on the Site, and details the groundwater monitoring program and site inspection protocols used to evaluate the effectiveness of the aforementioned remedy. The sampling and analysis performed during the July 2013 monitoring event, was conducted using the procedures outlined in the SMP.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Procedures

As required by the SMP, URS collected groundwater samples from monitoring wells MW-01, MW-02, MW-04, MW-06S, MW-06D, MW-07S and MW-07D on July 5, 2013 (Figure 1-2). Low-flow procedures were utilized to purge the monitoring wells and the recovery well, and then to collect groundwater samples once purge parameters (e.g., pH, temperature, conductivity, etc.) had stabilized. The samples were placed in an ice-filled shipping cooler and forwarded to Test America Labs in Amherst, New York under proper chain-of-custody for analysis. All of the groundwater samples were analyzed for TCL VOCs.

Copies of the groundwater purging and sampling logs are contained in Appendix A and a copy of the field notes is contained in Appendix B. A summary of the monitoring well and piezometer installations is presented in Table 2-1.

2.2 Analytical Results

2.2.1 URS Analyses

The analytical data for the samples are summarized in Table 2-2 and contained in Appendix C. The groundwater sample analytical results were compared to the standards, criteria and guidance (SCGs) values outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* June 1998. The SCGs are as follows:

Volatile Compounds	SCG (µg/L) *		Volatile Compounds	SCG (µg/L) *
Acetone	50		1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1-Dichloroethane (1,1-DCA)	5		1,2-Dichloroethene (1,2-DCE)	5
1,1-Dichloroethene (1,1-DCE)	5		Vinyl Chloride	0.3
Chloroethane	5		Total VOCs	**NS

* µg/L = micrograms per liter

**NS = No standard

The results of this comparison indicated the following:

- MW-01: No VOCs were present at concentrations that exceeded the SCGs
- MW-02: No VOCs were present at concentrations that exceeded the SCGs
- MW-04: No VOCs were present at concentrations that exceeded the SCGs
- MW-06S: Three VOCs were present at concentrations that exceeded the SCGs;. Chloroethane at 530 µg/L, 1,1-DCA at 12,000 µg/L and 1,1,1-TCA at 240 µg/L.
- MW-06D: Two VOCs were present at concentrations that exceeded the SCGs; Chloroethane at 450 µg/L, 1,1-DCA at 13,000 µg/L. This sample was diluted in the lab before analysis due to the high 1,1-DCA concentration.

  A blind duplicate sample for MW-06D had six VOCs detected at concentrations that exceeded SCGs; Chloroethane at 450 µg/L, 1,1,1-TCA at 180 µg/L, 1,1-DCA at 12,000 µg/L, 1,1-DCE at 32 µg/L, total 1,2-DCE at 13 µg/L and Vinyl chloride at 6.2 µg/L. This sample was not diluted before analysis for most of the parameters and therefore more parameters at low concentration were detected.
- MW-07S: No VOCs were present at concentrations that exceeded the SCGs.
- MW-07D: No VOCs were present at concentrations that exceeded the SCGs.

2.2.2 Comparison with Previous Results

The results of the analysis for MW-01, MW-02 and MW-04 have been compared with the results from the July 6, 2012 groundwater sampling event, which was the last sampling event for these three wells. The results of the analysis for MW-06S, MW-07S and MW-07D have been compared with the results from the April 9, 2013 groundwater sampling event. The results for MW-06D and its duplicate sample have been compared with the results from both the April 9, 2013 sampling round for the diluted sample from MW-06D and from the September 16, 2011 sampling round for the duplicate sample, the last analysis conducted on an undiluted sample from this well. Analytical results from recovery well RW-01 have been compared with the results from the December 2009 sampling round, the last time tis well has been sampled.

- Monitoring Well MW-01 – No VOCs have been detected since September 2005.
- Monitoring Well MW-02 – No VOCs have been detected since September 2005.

- Monitoring Well MW-04 – No VOCs have been detected since September 2005.
- Monitoring Well MW-06S – The concentration of Chloroethane increased from 460 µg/L in April 2013 to 530 µg/L. The concentration of 1,1-DCA increased from 9,500 µg/L in April 2013 to 12,000 µg/L. The concentration of 1,1,1-TCA decreased from 260 µg/L in April 2013 to 240 µg/L. These concentrations are within the historic range of concentrations observed since March 2005. The presence of Chloroethane, is attributed to the breakdown of 1,1,1-TCA and 1,1-DCA.
- Monitoring Well MW-06D and duplicate sample – The concentration of Chloroethane decreased from 600 µg/L in April 2013 to 450 µg/L in both the sample MW-06D and in its duplicate sample. The concentration of 1,1-DCA decreased from 15,000 µg/L in April 2013 to 12,000 µg/L in sample MW-06D and 13,000 µg/L in the duplicate sample. The concentration of 1,1,1-TCA decreased from 180 µg/L in April 2013 to not detected in sample MW-06D and remained at 180 µg/L in the duplicate sample.

  Five additional VOCs were detected in the duplicate samples that have not been detected since September 2011, most likely due to the dilution of the samples during this interval. Vinyl chloride increased from 6 µg/L in September 2011 to 6.2 µg/L. Methylene chloride increased slightly from an estimated 0.70 µg/L in September 2011 to an estimated 0.82 µg/L. 1,1-Dichloroethene decreased from 80 µg/L in September 2011 to 32 µg/L. 1,2-Dichloroethene (total) decreased from 21 µg/L in September 2011 to 13 µg/L. 1,2-Dichloroethane increased slightly from 2.9 µg/L in September 2011 to 3.6 µg/L. Methyl-tert-butyl ether increased slightly from an estimated 0.75 µg/L in September 2011 to an estimated 0.82 µg/L. Benzene was detected for the first time in July 2013 at an estimated 0.48 µg/L. These concentrations are within the historic range of concentrations observed since March 2005.
- Monitoring Well MW-07S - No VOCs were present above SCGs in the groundwater samples collected in July 2013.
- Monitoring Well MW-07D - No VOCs were present above SCG in the groundwater samples collected in July 2013.

- Recovery Well RW-01 – Chloroethane increased from not detected in December 2009 to 1.4 µg/L. Vinyl chloride increased from not detected in December 2009 to 21 µg/L. 1,1-Dichloroethane decreased from 26 µg/L in December 2009 to 3.1 µg/L. 1,2-Dichloroethene (total) increased from not detected in December 2009 to 11 µg/L. Cyclohexane increased from not detected in December 2009 to an estimated 0.19 µg/L. 1,2-Dichlorobenzene increased from not detected in December 2009 to 1.6 µg/L.

2.3 Groundwater Flow Conditions

2.3.1 Upper Till/Unconfined Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-1 show that the general groundwater flow directions across the Site are essentially the same as observed during previous sampling events. Flow is still generally from south and southeast to north and northwest.

- Groundwater elevations throughout the soil removal area are at approximately 100.8 feet. This indicates that the excavation area is still acting as a "bathtub", with groundwater levels at essentially the same elevation throughout.
- Groundwater flow in the area northeast of the excavation is essentially the same as observed during prior monitoring events.
- Groundwater flow in the area northwest of the excavation remains more to the west-northwest, than it was prior to remediation.

2.3.2 Lower Till/Confined Bedrock Unit

Groundwater elevations recorded during this period (Table 2-3) and presented on Figure 2-2 show that the "bathtub" effect from the excavation area being filled with groundwater continues to have a more significant impact on flow conditions in the lower unit as opposed to the upper unit.

- Recharge to the Site is still from the southeast.

- In the area southwest of the excavation, groundwater flow is directly to the southwest (towards monitoring well MW-01) while in the area northwest of the excavation, groundwater flow is to the northwest (towards monitoring wells MW-06S, MW-06D, MW-07S and MW-07D).

- In the area northeast of the excavation, groundwater flow is to the east and north (towards monitoring wells MW-02 and MW-04).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the analytical results, there are some VOCs present in groundwater samples collected from monitoring wells MW-06S, MW-06D, and recovery well RW-01 at concentrations that exceed the SCGs. There have also been increases in daughter (breakdown) products, namely chloroethane and vinyl chloride, in these wells indicating that natural attenuation of the VOCs is occurring.

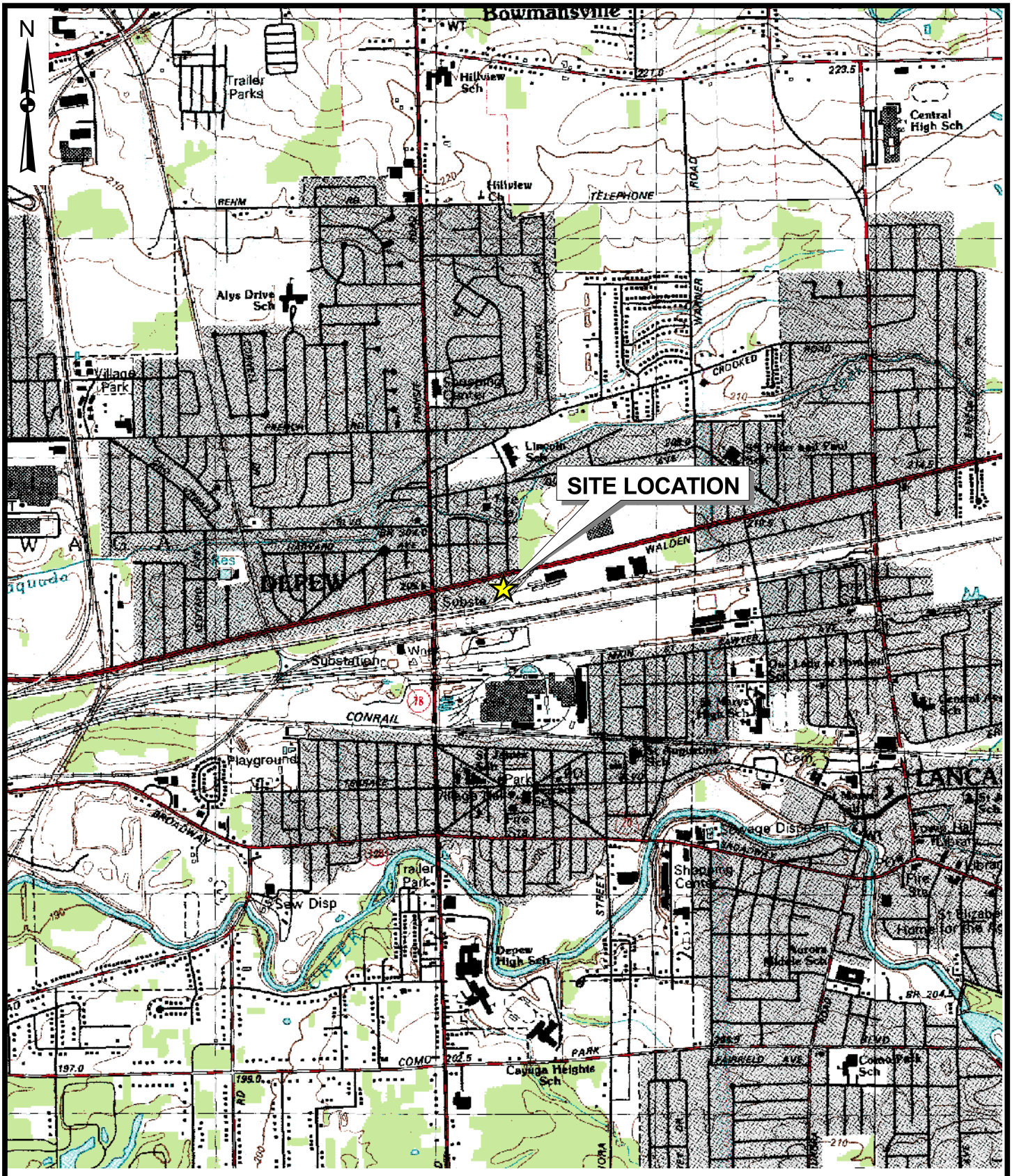
The concentration of VOCs in monitoring wells MW-01, MW-02, MW-04, MW-07S and, MW-07D continued to be below SCGs from December 2005 to July 2013.

3.2 Recommendations

The July 5, 2013 monitoring event is the sixth quarterly event since the issuance of the Certificate of Completion in December 2011. Based on the above discussions, it is recommended that the groundwater monitoring schedule in the SMP be revised as follows:

- Monitoring wells MW-1, MW-2 and MW-4 will be sampled once every five years.
- Monitoring wells MW-6S/6D and MW-7S/7D will be sampled once annually. Sampling will be conducted in the spring one year and the fall the following year. The results of the sampling will be submitted electronically to the Department annually.
- All groundwater samples will be analyzed for VOCs.
- Groundwater elevations will be collected from all the monitoring wells and piezometers during the annual sampling event to confirm groundwater flow directions.

If the annual sampling results show a significant increase in contaminant concentrations, then an increased frequency of sampling in the impacted monitoring well(s) will be discussed and agreed with the Department.



SOURCE:
USGS Topographic 7.5 Minute Quadrangles
Lancaster, New York

2000 0 2000 Feet

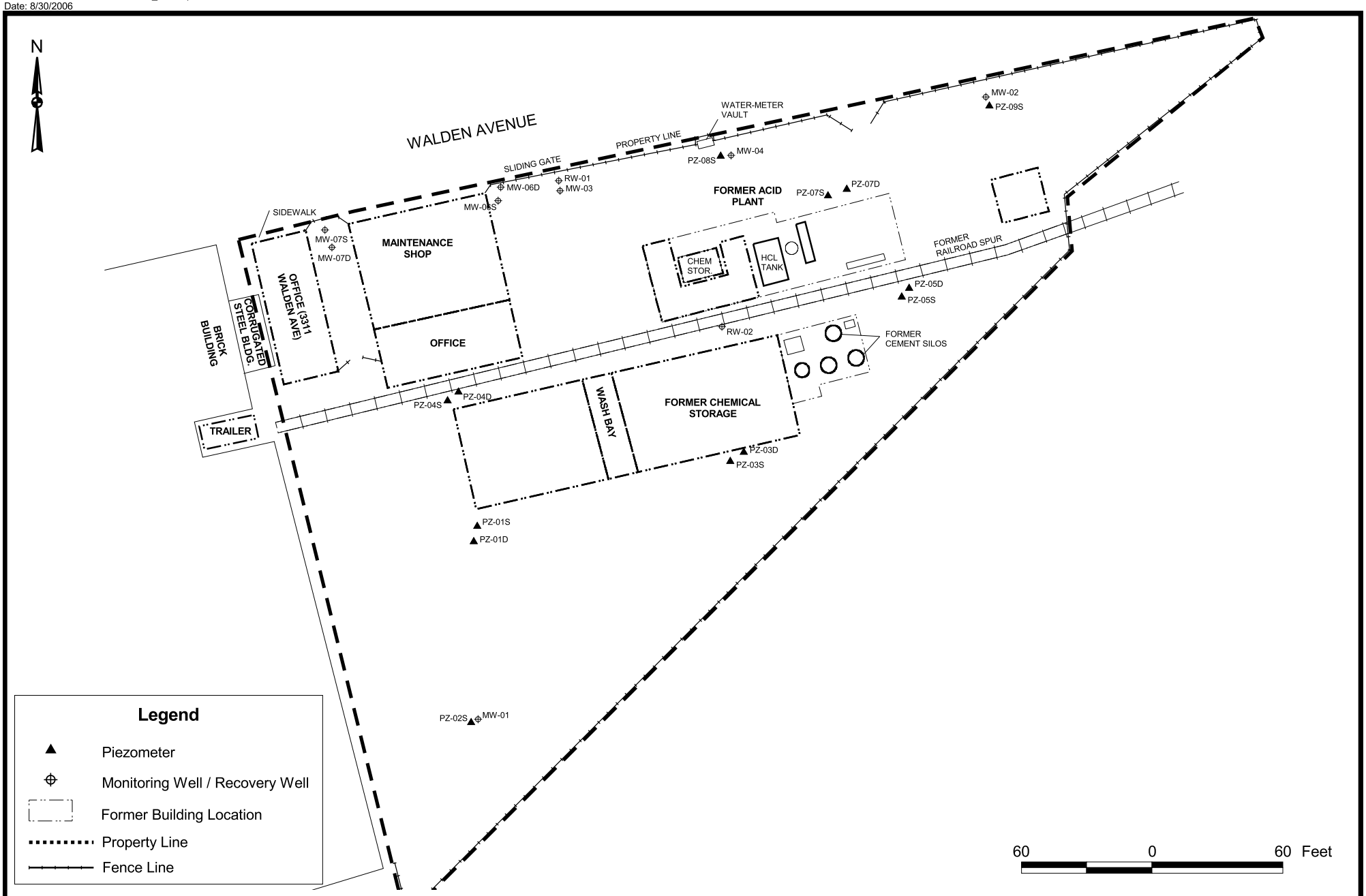
URS

FORMER DOWELL FACILITY
SITE LOCATION MAP

FIGURE 1-1

N:\11171084.00000\DB\Gis\dowell_2003.apr SITE LOCATION
12/12/2006

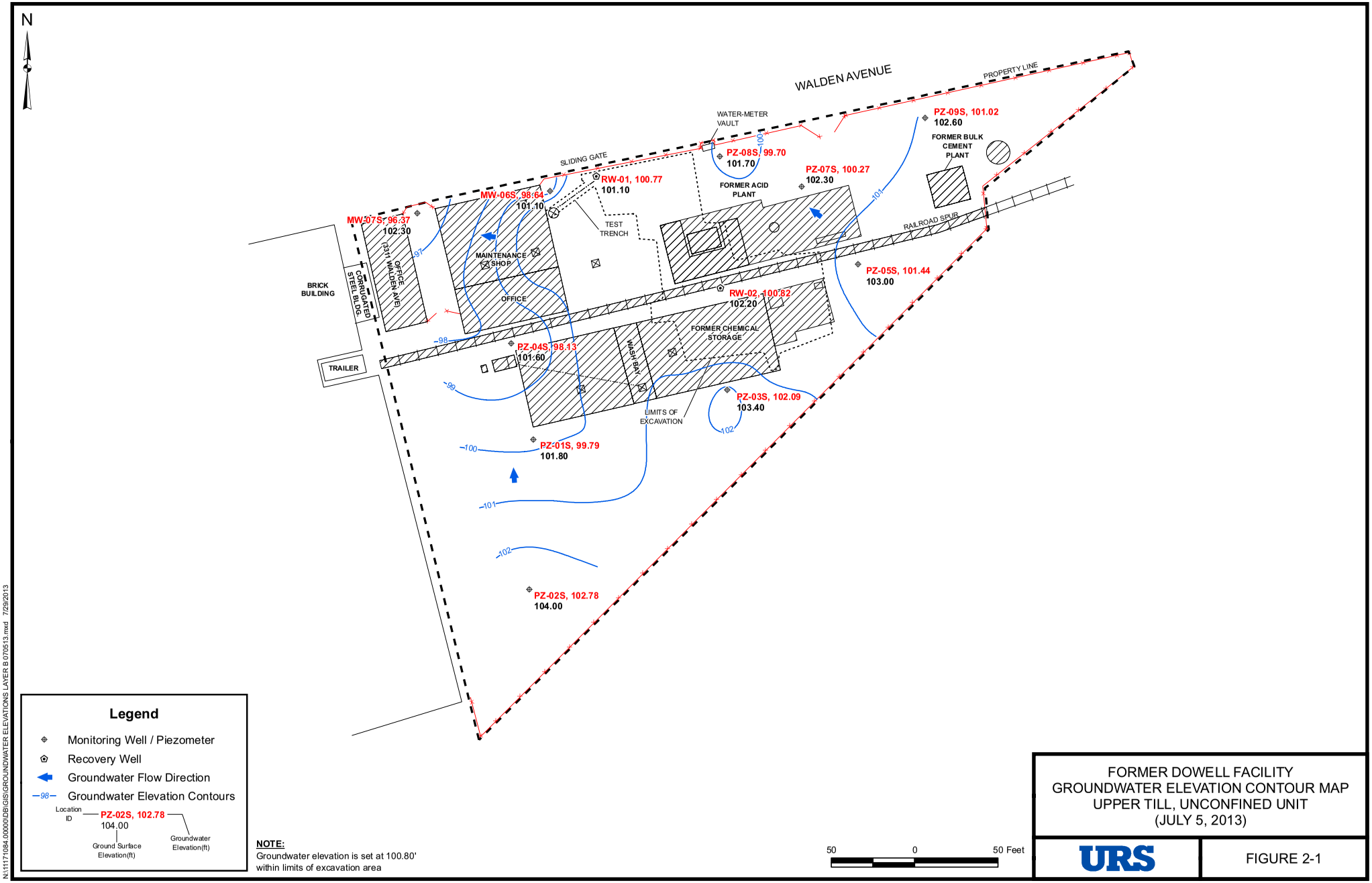
N:\11171084.00000\DB\Gis\dowell_2003.apr MONITORING WELL/PIEZOMETER LOCATION PLAN
Date: 8/30/2006



URS

FORMER DOWELL FACILITY
MONITORNG WELL/PIEZOMETER LOCATION PLAN

FIGURE 1-2


N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
SLIDING GATE
PZ-09S, 101.02
102.60
FORMER BULK CEMENT PLANT
PZ-08S, 99.70
101.70
PZ-07S, 100.27
102.30
FORMER ACID PLANT
RW-01, 100.77
101.10
MW-06S, 98.64
101.10
MW-07S, 96.37
102.30
TEST TRENCH
RAILROAD SPUR
MAINTENANCE SHOP
OFFICE (2311 WALDEN AVE)
BRICK BUILDING
CORRUGATED STEEL BLDG.
OFFICE
PZ-05S, 101.44
103.00
RW-02, 100.82
102.20
FORMER CHEMICAL STORAGE
WASH BAY
TRAILER
PZ-04S, 98.13
101.60
PZ-03S, 102.09
103.40
LIMITS OF EXCAVATION
PZ-01S, 99.79
101.80
PZ-02S, 102.78
104.00
97
98
99
100
101
102
103
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
98
Groundwater Elevation Contours
Location ID
PZ-02S, 102.78
104.00
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 100.80' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
UPPER TILL, UNCONFINED UNIT
(JULY 5, 2013)
URS
FIGURE 2-1
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER B 070513.mxd 7/29/2013

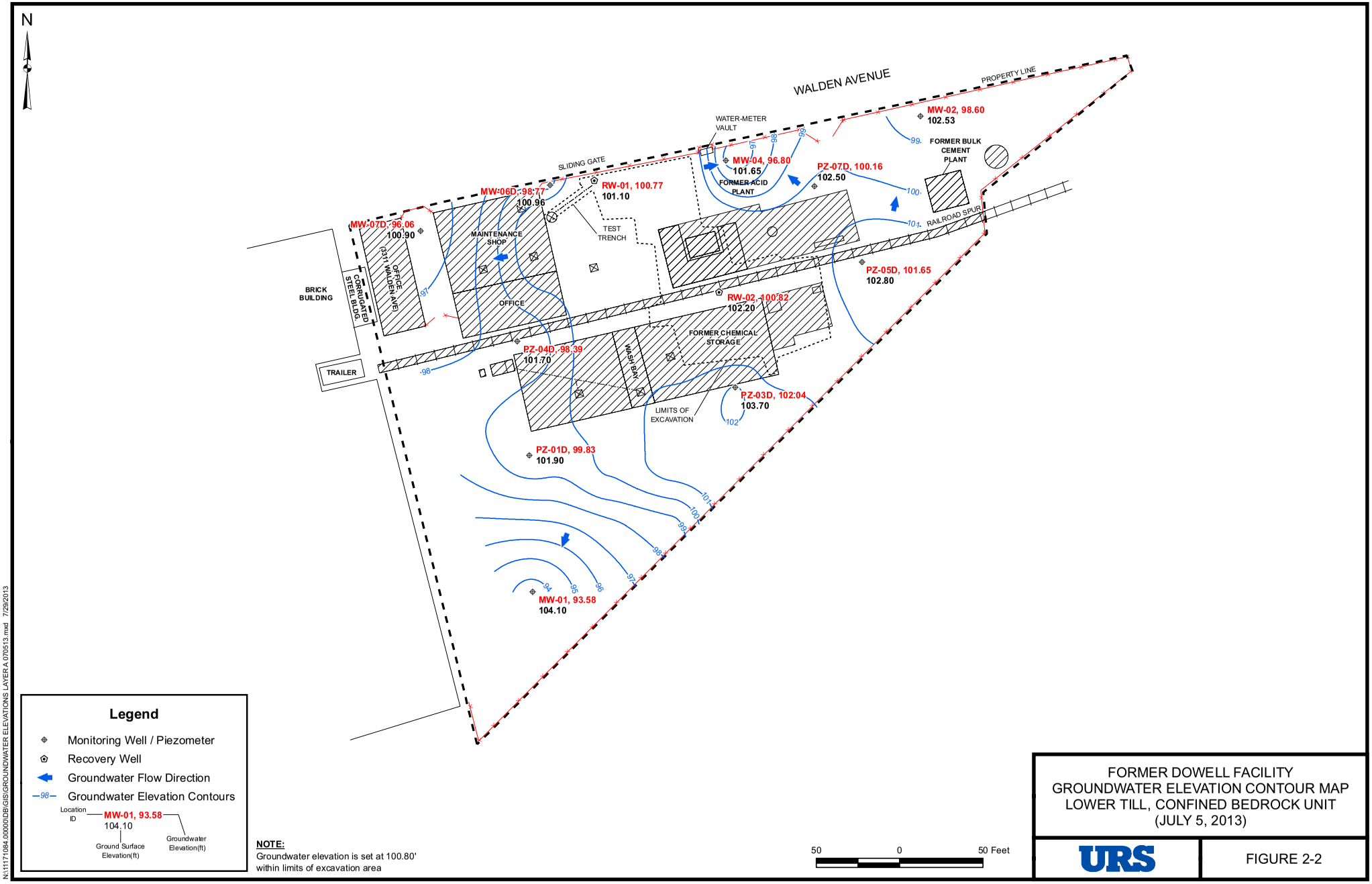

N
WALDEN AVENUE
PROPERTY LINE
WATER-METER VAULT
MW-02, 98.60
102.53
FORMER BULK CEMENT PLANT
SLIDING GATE
MW-04, 96.80
101.65
FORMER ACID PLANT
PZ-07D, 100.16
102.50
MW-06D, 98.77
100.96
RW-01, 100.77
101.10
TEST TRENCH
RAILROAD SPUR
MW-07D, 96.06
100.90
MAINTENANCE SHOP
(5311 WALDEN AVE)
OFFICE
BRICK BUILDING
CORRUGATED STEEL BLDG
OFFICE
PZ-05D, 101.65
102.80
RW-02, 100.82
102.20
FORMER CHEMICAL STORAGE
PZ-04D, 98.39
101.70
WASH BAY
TRAILER
PZ-03D, 102.04
103.70
LIMITS OF EXCAVATION
PZ-01D, 99.83
101.90
MW-01, 93.58
104.10
Legend
Monitoring Well / Piezometer
Recovery Well
Groundwater Flow Direction
Groundwater Elevation Contours
Location ID
MW-01, 93.58
104.10
Ground Surface Elevation(ft)
Groundwater Elevation(ft)
NOTE:
Groundwater elevation is set at 100.80' within limits of excavation area
50
0
50 Feet
FORMER DOWELL FACILITY
GROUNDWATER ELEVATION CONTOUR MAP
LOWER TILL, CONFINED BEDROCK UNIT
(JULY 5, 2013)
URS
FIGURE 2-2
N:\11171084.00000\DB\GIS\GROUNDWATER ELEVATIONS LAYER A 070513.mxd 7/29/2013

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
MW-01	WL	1060924.157	1118932.986	104.10	103.80	30.0	SCRN	PVC	20	30
							FILPK	SNP	17	30
							SEAL	BNT	14	17
MW-02	WL	1061209.591	1119165.904	102.53	102.25	28.3	SCRN	PVC	18.3	28.3
							FILPK	SNP	15	28.3
							SEAL	BNT	13.5	15.0
MW-03*	WL	1061166.624	1118970.677	101.11	100.57	29.0	SCRN	PVC	15	25
							FILPK	SNP	12	29
							SEAL	BNT	9.5	12
MW-04	WL	1061182.893	1119049.101	101.65	101.25	28.0	SCRN	PVC	18	28
							FILPK	SNP	15	28
							SEAL	BNT	13	15
MW-05*	WL	1061061.919	1119111.257	104.54	103.97	14.5	SCRN	PVC	4	14
MW-06S	WL	1061162.035	1118942.310	100.96	100.38	20.5	SCRN	PVC	10	20
							FILPK	SNP	8	20.5
							SEAL	BNT	6	8
MW-06D	WL	1061168.182	1118943.395	100.96	100.38	30.5	SCRN	PVC	20	30
							FILPK	SNP	17	30.5
							SEAL	BNT	15	17
MW-07S	WL	1061148.617	1118862.788	100.64	100.10	20.0	SCRN	PVC	9.5	19.5
							FILPK	SNP	7.5	20
							SEAL	BNT	5.5	7.5
MW-07D	WL	1061140.668	1118865.965	100.90	100.27	30.5	SCRN	PVC	20	30
							FILPK	SNP	18	30.5
							SEAL	BNT	16	18
MW-08*	WL	1061061.953	1118900.487	100.10	99.65	20.0	SCRN	PVC	9.5	19.5
RW-01	RW	1061171.187	1118970.030	101.10	103.90	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
RW-02	RW	1061104.123	1119044.860	102.20	104.72	16.0	SCRN	PVC	6	16
							FILPK	SNP	5	16
PZ-01S	PZ	1061012.984	1118932.541	101.80	104.97	12.0	SCRN	PVC	2	12
							FILPK	SNP	0.5	12
							SEAL	BNT	0	0.5
PZ-01D	PZ	1061005.996	1118931.016	101.90	105.21	24.5	SCRN	PVC	22.5	24.5

TABLE 2-1
FORMER DOWELL SITE
SUMMARY OF MONITORING WELL / PIEZOMETER INSTALLATION DETAILS

Location ID	Type	Northing	Easting	Ground Elevation (ft.)	Top of Riser Elevation (ft.)	Total Depth (ft. bgs)	Well Construction Information			
							Class	Material	Beg. Depth (ft.bgs)	End Depth (ft. bgs)
PZ-02S	PZ	1060922.990	1118929.893	104.00	107.86	12.0	SCRN	PVC	10	12
PZ-03S	PZ	1061042.670	1119048.681	103.40	106.32	12.0	SCRN	PVC	10	12
PZ-03D	PZ	1061046.881	1119054.834	103.70	105.73	24.0	SCRN	PVC	22	24
PZ-04S	PZ	1061070.634	1118919.122	101.60	104.67	12.0	SCRN	PVC	10	12
PZ-04D	PZ	1061074.512	1118924.040	101.70	104.80	24.5	SCRN	PVC	22.5	24.5
PZ-05S	PZ	1061118.252	1119127.382	103.00	105.43	12.0	SCRN	PVC	10	12
PZ-05D	PZ	1061122.093	1119130.623	102.80	106.20	24.3	SCRN	PVC	22.3	24.3
PZ-06S	PZ	1061110.460	1118958.917	101.10	103.78	12.0	SCRN	PVC	10	12
PZ-07S	PZ	1061164.596	1119093.524	102.30	105.25	12.5	SCRN	PVC	10.5	12.5
PZ-07D	PZ	1061167.578	1119102.081	102.50	105.10	25.0	SCRN	PVC	23	25
PZ-08S	PZ	1061182.870	1119044.295	101.70	105.08	11.8	SCRN	PVC	9.8	118.
PZ-09S	PZ	1061205.909	1119167.589	102.60	106.38	12.3	SCRN	PVC	10.3	12.3

* - Removed or destroyed

TYPES:

WL - Well

RW - Recovery Well

PZ - Piezometer

CLASSES:

SCRN - Screen

FILPK - Filter Pack

SEAL - Well Seal

MATERIALS:

PVC - Polyvinyl Chloride

SNP - Sand Pack

BNT - Bentonite

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	20	U	NS	3*	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	20	U	NS	U	U	U	U	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	15	5 J	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	15	5	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	NS	NS	NS	U
Vinyl Chloride	UG/L	NS	NS	NS	U
Methylene Chloride	UG/L	NS	NS	NS	U
Acetone	UG/L	NS	NS	NS	U
1,1-Dichloroethene	UG/L	NS	NS	NS	U
1,1-Dichloroethane	UG/L	NS	NS	NS	U
1,2-Dichloroethene (total)	UG/L	NS	NS	NS	U
1,2-Dichloroethane	UG/L	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	NS	NS	NS	U
Total VOCs	UG/L	NS	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	7	5*	U	U	1*	U	U
Acetone	UG/L	13	U	14	U	U	U	5*	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	25	U	21	U	U	U	U	U	U

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	5*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	15	U	15	2 J	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	15	U	15	2	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Vinyl Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Methylene Chloride	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Acetone	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethene	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,2-Dichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS
Total VOCs	UG/L	NS	NS	U	NS	NS	U	NS	NS	NS

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-02
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Jul-13
Chloroethane	UG/L	U
Vinyl Chloride	UG/L	U
Methylene Chloride	UG/L	U
Acetone	UG/L	U
1,1-Dichloroethene	UG/L	U
1,1-Dichloroethane	UG/L	U
1,2-Dichloroethene (total)	UG/L	U
1,2-Dichloroethane	UG/L	U
1,1,1-Trichloroethane	UG/L	U
Total VOCs	UG/L	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	12	U	U	5*	U	U	2*	U
Acetone	UG/L	20	U	U	5*	U	U	6*	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	4	21	U	U	110
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	8
Total VOCs	UG/L	32	U	U	4	21	U	U	118

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	28	51	13	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	4 J	U	U	U	U	U
Total VOCs	UG/L	U	U	55	13	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Vinyl Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Methylene Chloride	UG/L	U	U	NS	NS	U	NS	NS	U
Acetone	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethene	UG/L	U	U	NS	NS	U	NS	NS	U
1,1-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	NS	U	NS	NS	U
1,2-Dichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
1,1,1-Trichloroethane	UG/L	U	U	NS	NS	U	NS	NS	U
Total VOCs	UG/L	U	U	NS	NS	U	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-04
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	NS	NS	NS	U
Vinyl Chloride	UG/L	NS	NS	NS	U
Methylene Chloride	UG/L	NS	NS	NS	U
Acetone	UG/L	NS	NS	NS	U
1,1-Dichloroethene	UG/L	NS	NS	NS	U
1,1-Dichloroethane	UG/L	NS	NS	NS	U
1,2-Dichloroethene (total)	UG/L	NS	NS	NS	U
1,2-Dichloroethane	UG/L	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	NS	NS	NS	U
Total VOCs	UG/L	NS	NS	NS	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	19 J
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	6	120
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	490	170
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U	13 J
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U	26
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	190	360
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	686	708

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	20	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	10	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	490*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	110	210 J	170 J	470	U	110	180	U
1,1-Dichloroethane	UG/L	4,700	2,800	5,000	7,800	760	13,000	3,400	330	2,900
1,2-Dichloroethene (total)	UG/L	U	16	U	U	35	U	U	U	U
1,2-Dichloroethane	UG/L	U	2 J	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	890	550	860	1,000	700	1,300	510	450	400
Total VOCs	UG/L	5,590	2,958	6,070	8,970	1,495	14,300	4,020	960	3,300

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	39	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	70	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	73	130	390	310	U	150	190	U
1,1-Dichloroethane	UG/L	5,900	4,800	830	920	3,000	3,600	1,900	1,700	5,700
1,2-Dichloroethene (total)	UG/L	U	U	U	25	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	380	320	310	580	640	280	390	480	330
Total VOCs	UG/L	6,280	5,232	1,270	1,985	3,950	3,880	2,440	2,370	6,030

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	120 J	150	430	220	720
Vinyl Chloride	UG/L	U	U	U	U	3.1	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	140	260	U	U	39	79	50 J	100 J	U
1,1-Dichloroethane	UG/L	2,000	440	9,900	16,000	11,000	5,500	12,000	7,900	13,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	9	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	270	480	310	670	280	250	390	390	300
Methyl tert-butyl ether	UG/L	U	U	U	U	0.80 J	U	U	U	U
Total VOCs	UG/L	2,410	1,160	10,210	16,670	11,455	5,979	12,870	8610	14,020

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
J = estimated value
E= Exceded the calibration range for that instrument
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank concentration
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Apr-13	Jul-13
Chloroethane	UG/L	460	530
Vinyl Chloride	UG/L	U	U
Methylene Chloride	UG/L	U	U
Acetone	UG/L	U	U
1,1-Dichloroethene	UG/L	U	U
1,1-Dichloroethane	UG/L	9,500	12,000
1,2-Dichloroethene (total)	UG/L	U	U
1,2-Dichloroethane	UG/L	U	U
1,1,1-Trichloroethane	UG/L	260	240
Methyl tert-butyl ether	UG/L	U	U
Total VOCs	UG/L	10,220	12,770

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	230
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	87
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	317

Volatile Compounds	Units	Mar-05 (1)	Mar-05 (2)	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	U	29	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	520*	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	53	U	33 J	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,700	5,700	4,900	3,600	8,400	9,100	12,000	19,000	22,000
1,2-Dichloroethene (total)	UG/L	U	8	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	970	610	400 J	280	430	500	850	1,200	U
Total VOCs	UG/L	10,670	6,400	5,300	3,913	8,830	9,600	12,850	20,200	22,000

Volatile Compounds	Units	Mar-07 (1)	Mar-07 (2)	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	64	U	U	U	U	U	U	730*
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	9,800	9,300	13,000	18,000	13,000	5,000	12,000	15,000	11,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	250	U	U	U	U	U	U	U
Total VOCs	UG/L	9,800	9,614	13,000	18,000	13,000	5,000	12,000	15,000	11,000

Volatile Compounds	Units	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12
Chloroethane	UG/L	U	U	U	U	280	260	450	470	750
Vinyl Chloride	UG/L	U	U	U	U	6	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	0.70 J	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	80	U	U	U	U
1,1-Dichloroethane	UG/L	9,600	16,000	4,700	5,200	9,900	14,000	16,000	18,000	15,000
1,2-Dichloroethene (total)	UG/L	U	U	U	U	21	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	2.9	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	550	U	U	400	220	300	320	240
Methyl tert-butyl ether	UG/L	U	U	U	U	0.75 J	U	U	U	U
Total VOCs	UG/L	9,600	16,550	4,700	5,200	10,691	14,480	16,750	18,790	15,990

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
NI = Not Installed
(1) Samples collected for analysis by URS
(2) Split samples collected for analysis by NYSDEC
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-06D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Apr-13	Jul-13	Jul-13 Dup
Chloroethane	UG/L	600	450	450
Vinyl Chloride	UG/L	U	U	6.2
Methylene Chloride	UG/L	U	U	0.82 J
Acetone	UG/L	U	U	U
Benzene	UG/L	U	U	0.48 J
1,1-Dichloroethene	UG/L	U	U	32
1,1-Dichloroethane	UG/L	15,000	13,000	12,000
1,2-Dichloroethene (total)	UG/L	U	U	13
1,2-Dichloroethane	UG/L	U	U	3.6
1,1,1-Trichloroethane	UG/L	180 J	U	180
Methyl tert-butyl ether	UG/L	U	U	0.92 J
Total VOCs	UG/L	15,780	13,450	12,687

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	U
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	U

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	81	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	5 J	U	U	U	U
Total VOCs	UG/L	U	U	U	86	U	U	U	U

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	NS	U	U	U	U	U
Methylene Chloride	UG/L	U	U	NS	U	U	U	U	U
Acetone	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	NS	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	NS	U	U	U	0.46 J	U
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	NS	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	NS	U	U	U	U	U
Total VOCs	UG/L	U	U	NS	U	U	U	0.46 J	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07S
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U
Acetone	UG/L	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U
1,1-Dichloroethane	UG/L	1	1.3	1.2	1.1
1,2-Dichloroethene (total)	UG/L	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U
Total VOCs	UG/L	1	1.3	1.2	1.1

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL

NS = not sampled
NI = Not Installed
Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01	Jul-04
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Mar-05	Jun-05	Sep-05	Nov-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06
Chloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Methylene Chloride	UG/L	NI	NI	NI	U	U	U	U	U	U
Acetone	UG/L	NI	NI	NI	35*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NI	NI	U	U	U	U	U	U
Total VOCs	UG/L	NI	NI	NI	35*	U	U	U	U	U

Volatile Compounds	Units	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
Chloroethane	UG/L	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12	Sep-12	Dec-12	Apr-13
Chloroethane	UG/L	NS	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	NS	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	NS	U	U	U	U	U	U	U	U
Acetone	UG/L	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	NS	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	NS	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NS	U	U	U	U	U	U	U	U
Total VOCs	UG/L	NS	U	U	U	U	U	U	U	U

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Monitoring Well MW-07D
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Jul-13
Chloroethane	UG/L	U
Vinyl Chloride	UG/L	U
Methylene Chloride	UG/L	U
Acetone	UG/L	U
1,1-Dichloroethene	UG/L	U
1,1-Dichloroethane	UG/L	U
1,2-Dichloroethene (total)	UG/L	U
1,2-Dichloroethane	UG/L	U
1,1,1-Trichloroethane	UG/L	U
Total VOCs	UG/L	U

Notes:
VOC analysis by EPA Method 8260
U = not present above PQL
NS = not sampled
* Qualified as non-detect due to blank contamination
Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-96	Mar-97	Nov-97	Jul-98	Dec-98	Jul-99	Jan-00	Jul-01
Chloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Vinyl Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylene Chloride	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Acetone	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethene (total)	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,1,1-Trichloroethane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Cyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Methylcyclohexane	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
1,2-Dichlorobenzene	UG/L	NI	NI	NI	NI	NI	NI	NI	NI
Total VOCs	UG/L	NI	NI	NI	NI	NI	NI	NI	NI

Volatile Compounds	Units	Jul-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06
Chloroethane	UG/L	NI	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	NI	NS	5 J	3 J	U	U	U	U
Methylene Chloride	UG/L	NI	NS	U	U	U	U	U	U
Acetone	UG/L	NI	NS	6*	U	U	U	U	U
1,1-Dichloroethene	UG/L	NI	NS	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	NI	NS	35	39	18	35	23	23
1,2-Dichloroethene (total)	UG/L	NI	NS	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	NI	NS	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	NI	NS	11	7 J	5.2	5.6	6.3	5.9
Cyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
Methylcyclohexane	UG/L	NI	NS	U	2 J	U	U	U	U
1,2-Dichlorobenzene	UG/L	NI	NS	U	2 J	U	U	U	U
Total VOCs	UG/L	NI	NS	51	55	23.3	40.6	29.3	28.9

Volatile Compounds	Units	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08
Chloroethane	UG/L	U	U	U	49	U	U	U	U
Vinyl Chloride	UG/L	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	U	U	U	U	U	U	U	U
Acetone	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	45	27	65	47	9.4	71	26	35
1,2-Dichloroethene (total)	UG/L	U	U	U	U	U	U	U	U
1,2-Dichloroethane	UG/L	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	U	U	U	U	U	U	U	U
Cyclohexane	UG/L	U	U	U	U	U	U	U	U
Methylcyclohexane	UG/L	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	UG/L	U	U	U	U	U	U	U	U
Total VOCs	UG/L	45	27	65	96	9.4	71	26	35

Volatile Compounds	Units	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Sep-11	Feb-12	Jul-12
Chloroethane	UG/L	U	U	NS	33	U	NS	NS	NS
Vinyl Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Methylene Chloride	UG/L	U	U	NS	U	U	NS	NS	NS
Acetone	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethene	UG/L	U	U	NS	U	U	NS	NS	NS
1,1-Dichloroethane	UG/L	5.6	38	NS	29	26	NS	NS	NS
1,2-Dichloroethene (total)	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichloroethane	UG/L	U	U	NS	U	U	NS	NS	NS
1,1,1-Trichloroethane	UG/L	U	6.2	NS	U	U	NS	NS	NS
Cyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
Methylcyclohexane	UG/L	U	U	NS	U	U	NS	NS	NS
1,2-Dichlorobenzene	UG/L	U	U	NS	U	U	NS	NS	NS
Total VOCs	UG/L	5.6	44.2	NS	62	26	NS	NS	NS

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

Table 2-2
Recovery Well RW-01
Groundwater Analytical Results
Former Dowell Facility

Volatile Compounds	Units	Sep-12	Dec-12	Apr-13	Jul-13
Chloroethane	UG/L	NS	NS	NS	1.4
Vinyl Chloride	UG/L	NS	NS	NS	21
Methylene Chloride	UG/L	NS	NS	NS	U
Acetone	UG/L	NS	NS	NS	U
1,1-Dichloroethene	UG/L	NS	NS	NS	U
1,1-Dichloroethane	UG/L	NS	NS	NS	3.1
1,2-Dichloroethene (total)	UG/L	NS	NS	NS	11
1,2-Dichloroethane	UG/L	NS	NS	NS	U
1,1,1-Trichloroethane	UG/L	NS	NS	NS	U
Cyclohexane	UG/L	NS	NS	NS	0.19
Methylcyclohexane	UG/L	NS	NS	NS	U
1,2-Dichlorobenzene	UG/L	NS	NS	NS	1.6
Total VOCs	UG/L	NS	NS	NS	38.29

Notes:

VOC analysis by EPA Method 8260

U = not present above PQL

NS = not sampled

NI = Not Installed

* Qualified as non-detect due to blank contamination

Site was remediated during October 2003 to May 2004.

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-01	1060924.157	1118932.986	104.10	104.10	103.80	L	1	7/16/2001 0000	14.10	89.70	0.00	89.70	
								11/6/2001 0000	13.55	90.25	0.00	90.25	
								12/12/2001 0000	13.14	90.66	0.00	90.66	
								11/3/2005 1118	9.14	94.66	0.00	94.66	
								11/16/2005 0000	9.92	93.88	0.00	93.88	
								12/6/2005 0000	9.63	94.17	0.00	94.17	
								3/9/2006 0000	10.83	92.97	0.00	92.97	
								6/14/2006 0000	11.63	92.17	0.00	92.17	
								9/13/2006 0000	12.75	91.05	0.00	91.05	
								12/12/2006 0000	13.71	90.09	0.00	90.09	
								3/13/2007 0000	13.86	89.94	0.00	89.94	
								6/29/2007 0000	14.60	89.20	0.00	89.20	
								9/19/2007 0000	15.36	88.44	0.00	88.44	
								12/11/2007 0000	14.99	88.81	0.00	88.81	
								3/18/2008 0000	15.35	88.45	0.00	88.45	
								6/9/2008 0000	14.54	89.26	0.00	89.26	
								9/23/2008 0000	13.67	90.13	0.00	90.13	
								12/30/2008 0000	13.06	90.74	0.00	90.74	
								3/31/2009 0000	14.98	88.82	0.00	88.82	
								6/16/2009 0000	14.24	89.56	0.00	89.56	
								9/15/2009 0000	13.39	90.41	0.00	90.41	
								12/8/2009 0000	11.72	92.08	0.00	92.08	
								9/21/2011 0000	13.50	90.30	0.00	90.30	
								2/28/2012 0000	11.75	92.05	0.00	92.05	
								7/5/2012 0000	12.35	91.45	0.00	91.45	
								9/26/2012 1205	13.28	90.52	0.00	90.52	
								12/20/2012 1538	10.66	93.14	0.00	93.14	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								4/9/2013 0833	10.55	93.25	0.00	93.25	
								7/5/2013 0940	10.22	93.58	0.00	93.58	
MW-02	1061209.591	1119165.904	102.53	102.53	102.25	L	1						
								7/16/2001 0000	4.15	98.10	0.00	98.10	
								10/12/2001 0000	3.56	98.69	0.00	98.69	
								11/6/2001 0000	3.85	98.40	0.00	98.40	
								12/12/2001 0000	3.16	99.09	0.00	99.09	
								11/3/2005 1125	1.96	100.29	0.00	100.29	
								11/16/2005 0000	1.88	100.37	0.00	100.37	
								12/6/2005 0000	1.90	100.35	0.00	100.35	
								3/9/2006 0000	3.58	98.67	0.00	98.67	
								6/14/2006 0000	4.63	97.62	0.00	97.62	
								9/13/2006 0000	5.86	96.39	0.00	96.39	
								12/12/2006 0000	5.89	96.36	0.00	96.36	
								3/13/2007 0000	6.11	96.14	0.00	96.14	
								6/29/2007 0000	7.28	94.97	0.00	94.97	
								9/19/2007 0000	7.93	94.32	0.00	94.32	
								12/11/2007 0000	6.59	95.66	0.00	95.66	
								3/18/2008 0000	10.66	91.59	0.00	91.59	
								6/9/2008 0000	8.89	93.36	0.00	93.36	
								9/23/2008 0000	7.81	94.44	0.00	94.44	
								12/30/2008 0000	6.97	95.28	0.00	95.28	
								3/31/2009 0000	11.58	90.67	0.00	90.67	
								6/16/2009 0000	8.92	93.33	0.00	93.33	
								9/15/2009 0000	7.56	94.69	0.00	94.69	
								12/8/2009 0000	5.69	96.56	0.00	96.56	
								9/21/2011 0000	6.86	95.39	0.00	95.39	
								2/28/2012 0000	5.39	96.86	0.00	96.86	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								7/5/2012 0000	5.41	96.84	0.00	96.84	
								9/26/2012 1129	4.52	97.73	0.00	97.73	
								12/20/2012 1528	3.96	98.29	0.00	98.29	
								4/9/2013 0824	3.63	98.62	0.00	98.62	
								7/5/2013 0924	3.65	98.60	0.00	98.60	
MW-03	1061166.624	1118970.677	101.11	101.11	100.57	U	1	7/16/2001 0000	12.75	87.82	0.00	87.82	
								11/6/2001 0000	10.92	89.65	0.00	89.65	
								12/12/2001 0000	10.53	90.04	0.00	90.04	
MW-04	1061182.893	1119049.101	101.65	101.65	101.25	L	1	7/16/2001 0000	6.80	94.45	0.00	94.45	
								10/12/2001 0000	4.86	96.39	0.00	96.39	
								11/6/2001 0000	4.61	96.64	0.00	96.64	
								12/12/2001 0000	4.72	96.53	0.00	96.53	
								11/3/2005 1130	3.84	97.41	0.00	97.41	
								11/16/2005 0000	3.38	97.87	0.00	97.87	
								12/6/2005 0000	3.42	97.83	0.00	97.83	
								3/9/2006 0000	4.93	96.32	0.00	96.32	
								6/14/2006 0000	5.34	95.91	0.00	95.91	
								9/13/2006 0000	5.84	95.41	0.00	95.41	
								12/12/2006 0000	6.32	94.93	0.00	94.93	
								3/13/2007 0000	7.11	94.14	0.00	94.14	
								6/29/2007 0000	8.43	92.82	0.00	92.82	
								9/19/2007 0000	7.47	93.78	0.00	93.78	
								12/11/2007 0000	4.96	96.29	0.00	96.29	
								3/18/2008 0000	9.48	91.77	0.00	91.77	
								6/9/2008 0000	9.44	91.81	0.00	91.81	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/23/2008 0000	8.34	92.91	0.00	92.91	
								12/30/2008 0000	8.09	93.16	0.00	93.16	
								3/31/2009 0000	8.61	92.64	0.00	92.64	
								6/16/2009 0000	8.33	92.92	0.00	92.92	
								9/15/2009 0000	7.19	94.06	0.00	94.06	
								12/8/2009 0000	5.84	95.41	0.00	95.41	
								9/21/2011 0000	7.42	93.83	0.00	93.83	
								2/28/2012 0000	5.92	95.33	0.00	95.33	
								7/5/2012 0000	5.94	95.31	0.00	95.31	
								9/26/2012 1145	5.32	95.93	0.00	95.93	
								12/20/2012 1604	4.74	96.51	0.00	96.51	
								4/9/2013 0812	4.40	96.85	0.00	96.85	
								7/5/2013 0910	4.45	96.80	0.00	96.80	
MW-05	1061061.919	1119111.257	104.54	104.54	103.97	U	1	7/13/2001 0000	2.21	101.76	0.00	101.76	
								10/12/2001 0000	0.30	103.67	0.00	103.67	
								11/6/2001 0000	0.40	103.57	0.00	103.57	
								12/12/2001 0000	1.05	102.92	0.00	102.92	Well Destroyed
MW-06D	1061168.182	1118943.395	100.96	100.96	100.38	L	1	11/3/2005 1131	1.41	98.97	0.00	98.97	
								11/16/2005 0000	1.33	99.05	0.00	99.05	
								12/6/2005 0000	1.28	99.10	0.00	99.10	
								3/9/2006 0000	1.13	99.25	0.00	99.25	
								6/14/2006 0000	2.02	98.36	0.00	98.36	
								9/13/2006 0000	2.91	97.47	0.00	97.47	
								12/12/2006 0000	4.46	95.92	0.00	95.92	
								3/13/2007 0000	3.90	96.48	0.00	96.48	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								6/29/2007 0000	2.81	97.57	0.00	97.57	
								9/19/2007 0000	4.36	96.02	0.00	96.02	
								12/11/2007 0000	6.88	93.50	0.00	93.50	
								3/18/2008 0000	1.51	98.87	0.00	98.87	
								6/9/2008 0000	3.33	97.05	0.00	97.05	
								9/23/2008 0000	2.74	97.64	0.00	97.64	
								12/30/2008 0000	5.99	94.39	0.00	94.39	
								3/31/2009 0000	2.89	97.49	0.00	97.49	
								6/16/2009 0000	5.62	94.76	0.00	94.76	
								9/15/2009 0000	3.70	96.68	0.00	96.68	
								12/8/2009 0000	1.87	98.51	0.00	98.51	
								9/21/2011 0000	2.23	98.15	0.00	98.15	
								2/28/2012 0000	1.62	98.76	0.00	98.76	
								7/5/2012 0000	1.54	98.84	0.00	98.84	
								9/26/2012 1243	3.56	96.82	0.00	96.82	
								12/20/2012 1553	1.62	98.76	0.00	98.76	
								4/9/2013 0850	2.14	98.24	0.00	98.24	
								7/5/2013 0807	1.61	98.77	0.00	98.77	
MW-06S	1061162.035	1118942.310	100.96	100.96	100.38	U	1	7/16/2001 0000	4.46	95.92	0.00	95.92	
								10/12/2001 0000	3.31	97.07	0.00	97.07	
								11/6/2001 0000	3.03	97.35	0.00	97.35	
								12/12/2001 0000	3.37	97.01	0.00	97.01	
								11/3/2005 1131	1.49	98.89	0.00	98.89	
								11/16/2005 0000	0.97	99.41	0.00	99.41	
								12/6/2005 0000	1.60	98.78	0.00	98.78	
								3/9/2006 0000	1.19	99.19	0.00	99.19	
								6/14/2006 0000	2.52	97.86	0.00	97.86	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/13/2006 0000	3.14	97.24	0.00	97.24	
								12/12/2006 0000	0.98	99.40	0.00	99.40	
								3/13/2007 0000	2.78	97.60	0.00	97.60	
								6/29/2007 0000	4.36	96.02	0.00	96.02	
								9/19/2007 0000	4.92	95.46	0.00	95.46	
								12/11/2007 0000	5.46	94.92	0.00	94.92	
								3/18/2008 0000	1.91	98.47	0.00	98.47	
								6/9/2008 0000	4.30	96.08	0.00	96.08	
								9/23/2008 0000	4.01	96.37	0.00	96.37	
								12/30/2008 0000	8.18	92.20	0.00	92.20	
								3/31/2009 0000	1.23	99.15	0.00	99.15	
								6/16/2009 0000	5.77	94.61	0.00	94.61	
								9/15/2009 0000	3.02	97.36	0.00	97.36	
								12/8/2009 0000	1.22	99.16	0.00	99.16	
								9/21/2011 0000	2.39	97.99	0.00	97.99	
								2/28/2012 0000	3.75	96.63	0.00	96.63	
								7/5/2012 0000	2.29	98.09	0.00	98.09	
								9/26/2012 1247	3.45	96.93	0.00	96.93	
								12/20/2012 1557	2.52	97.86	0.00	97.86	
								4/9/2013 0852	2.12	98.26	0.00	98.26	
								7/5/2013 0803	1.74	98.64	0.00	98.64	
MW-07D	1061140.668	1118865.965	100.90	100.87	100.27	L	1	11/3/2005 1034	21.56	78.71	0.00	78.71	
								11/16/2005 0000	4.31	95.96	0.00	95.96	
								12/6/2005 0000	3.76	96.51	0.00	96.51	
								3/9/2006 0000	4.11	96.16	0.00	96.16	
								6/14/2006 0000	4.66	95.61	0.00	95.61	
								9/13/2006 0000	3.88	96.39	0.00	96.39	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								12/12/2006 0000	3.48	96.79	0.00	96.79	
								3/13/2007 0000	3.84	96.43	0.00	96.43	
								6/29/2007 0000	4.68	95.59	0.00	95.59	
								9/19/2007 0000	5.73	94.54	0.00	94.54	
								12/11/2007 0000	4.96	95.31	0.00	95.31	
								3/18/2008 0000	3.89	96.38	0.00	96.38	
								6/9/2008 0000	4.79	95.48	0.00	95.48	
								9/23/2008 0000	4.10	96.17	0.00	96.17	
								12/30/2008 0000	3.68	96.59	0.00	96.59	
								3/31/2009 0000	5.37	94.90	0.00	94.90	
								6/16/2009 0000	5.18	95.09	0.00	95.09	
								9/15/2009 0000	4.52	95.75	0.00	95.75	
								12/8/2009 0000	3.72	96.55	0.00	96.55	
								9/21/2011 0000	6.64	93.63	0.00	93.63	
								2/28/2012 0000	9.28	90.99	0.00	90.99	
								7/5/2012 0000	5.61	94.66	0.00	94.66	
								9/26/2012 1233	6.67	93.60	0.00	93.60	
								12/20/2012 1549	4.02	96.25	0.00	96.25	
								4/9/2013 0845	4.15	96.12	0.00	96.12	
								7/5/2013 0851	4.21	96.06	0.00	96.06	
MW-07S	1061148.617	1118862.788	100.64	100.64	100.10	U	1	7/16/2001 0000	11.82	88.28	0.00	88.28	
								10/12/2001 0000	3.41	96.69	0.00	96.69	
								11/6/2001 0000	3.43	96.67	0.00	96.67	
								12/12/2001 0000	3.89	96.21	0.00	96.21	
								11/3/2005 1114	2.79	97.31	0.00	97.31	
								11/16/2005 0000	3.46	96.64	0.00	96.64	
								12/6/2005 0000	3.38	96.72	0.00	96.72	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								3/9/2006 0000	3.35	96.75	0.00	96.75	
								6/14/2006 0000	6.06	94.04	0.00	94.04	
								9/13/2006 0000	3.95	96.15	0.00	96.15	
								12/12/2006 0000	5.87	94.23	0.00	94.23	
								3/13/2007 0000	7.36	92.74	0.00	92.74	
								6/29/2007 0000	3.75	96.35	0.00	96.35	
								9/19/2007 0000	7.62	92.48	0.00	92.48	
								12/11/2007 0000	7.21	92.89	0.00	92.89	
								3/18/2008 0000	4.13	95.97	0.00	95.97	
								6/9/2008 0000	7.44	92.66	0.00	92.66	
								9/23/2008 0000	6.99	93.11	0.00	93.11	
								12/30/2008 0000	6.98	93.12	0.00	93.12	
								3/31/2009 0000	4.49	95.61	0.00	95.61	
								6/16/2009 0000	6.51	93.59	0.00	93.59	
								9/15/2009 0000	5.64	94.46	0.00	94.46	
								12/8/2009 0000	2.84	97.26	0.00	97.26	
								9/21/2011 0000	4.60	95.50	0.00	95.50	
								2/28/2012 0000	5.64	94.46	0.00	94.46	
								7/5/2012 0000	4.15	95.95	0.00	95.95	
								9/26/2012 1229	5.92	94.18	0.00	94.18	
								12/20/2012 1547	3.38	96.72	0.00	96.72	
								4/9/2013 0847	3.39	96.71	0.00	96.71	
								7/5/2013 0840	3.73	96.37	0.00	96.37	
MW-08	1061061.953	1118900.487	100.10	100.10	99.65	U	1						
								7/16/2001 0000	3.39	96.26	0.00	96.26	
								11/6/2001 0000	1.55	98.10	0.00	98.10	
								12/12/2001 0000	1.82	97.83	0.00	97.83	Well Destroyed

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-01D	1061005.996	1118931.016	101.90		105.21	L	1	11/3/2005 1117	12.93	92.28	0.00	92.28	
								11/16/2005 0000	5.48	99.73	0.00	99.73	
								12/6/2005 0000	4.07	101.14	0.00	101.14	
								3/9/2006 0000	3.75	101.46	0.00	101.46	
								6/14/2006 0000	4.63	100.58	0.00	100.58	
								9/13/2006 0000	4.29	100.92	0.00	100.92	
								12/12/2006 0000	3.58	101.63	0.00	101.63	
								3/13/2007 0000	4.25	100.96	0.00	100.96	
								6/29/2007 0000	3.79	101.42	0.00	101.42	
								9/19/2007 0000	5.76	99.45	0.00	99.45	
								12/11/2007 0000	5.16	100.05	0.00	100.05	
								3/18/2008 0000	3.32	101.89	0.00	101.89	
								6/9/2008 0000	4.77	100.44	0.00	100.44	
								9/23/2008 0000	4.29	100.92	0.00	100.92	
								12/30/2008 0000	4.10	101.11	0.00	101.11	
								3/31/2009 0000	4.22	100.99	0.00	100.99	
								6/16/2009 0000	6.25	98.96	0.00	98.96	
								9/15/2009 0000	6.24	98.97	0.00	98.97	
								12/8/2009 0000	3.46	101.75	0.00	101.75	
								9/21/2011 0000	5.67	99.54	0.00	99.54	
								2/28/2012 0000	3.61	101.60	0.00	101.60	
								7/5/2012 0000	7.22	97.99	0.00	97.99	
								9/26/2012 1211	6.65	98.56	0.00	98.56	
								12/20/2012 1539	3.85	101.36	0.00	101.36	
								4/9/2013 0837	4.96	100.25	0.00	100.25	
								7/5/2013 0945	5.38	99.83	0.00	99.83	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-01S	1061012.984	1118932.541	101.80		104.97	U	1	10/12/2001 0000	4.68	100.29	0.00	100.29	
								11/6/2001 0000	3.68	101.29	0.00	101.29	
								12/12/2001 0000	3.86	101.11	0.00	101.11	
								11/3/2005 1116	3.68	101.29	0.00	101.29	
								11/16/2005 0000	2.86	102.11	0.00	102.11	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	2.89	102.08	0.00	102.08	
								6/14/2006 0000	4.71	100.26	0.00	100.26	
								9/13/2006 0000	3.22	101.75	0.00	101.75	
								12/12/2006 0000	3.44	101.53	0.00	101.53	
								3/13/2007 0000	3.02	101.95	0.00	101.95	
								6/29/2007 0000	6.53	98.44	0.00	98.44	
								9/19/2007 0000	7.99	96.98	0.00	96.98	
								12/11/2007 0000	3.61	101.36	0.00	101.36	
								3/18/2008 0000	3.29	101.68	0.00	101.68	
								6/9/2008 0000	4.72	100.25	0.00	100.25	
								9/23/2008 0000	4.51	100.46	0.00	100.46	
								12/30/2008 0000	3.27	101.70	0.00	101.70	
								3/31/2009 0000	3.82	101.15	0.00	101.15	
								6/16/2009 0000	5.94	99.03	0.00	99.03	
								9/15/2009 0000	5.93	99.04	0.00	99.04	
								12/8/2009 0000	3.44	101.53	0.00	101.53	
								9/21/2011 0000	5.45	99.52	0.00	99.52	
								2/28/2012 0000	3.63	101.34	0.00	101.34	
								7/5/2012 0000	7.02	97.95	0.00	97.95	
								9/26/2012 1213	6.43	98.54	0.00	98.54	
								12/20/2012 1540	3.81	101.16	0.00	101.16	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								4/9/2013 0838	4.78	100.19	0.00	100.19	
								7/5/2013 0943	5.18	99.79	0.00	99.79	
PZ-02S	1060922.990	1118929.893	104.00		107.86	U	1						
								11/3/2005 1119	4.47	103.39	0.00	103.39	
								11/16/2005 0000	3.72	104.14	0.00	104.14	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	4.22	103.64	0.00	103.64	
								6/14/2006 0000	6.42	101.44	0.00	101.44	
								9/13/2006 0000	4.35	103.51	0.00	103.51	
								12/12/2006 0000	4.20	103.66	0.00	103.66	
								3/13/2007 0000	3.76	104.10	0.00	104.10	
								6/29/2007 0000	7.62	100.24	0.00	100.24	
								9/19/2007 0000	9.08	98.78	0.00	98.78	
								12/11/2007 0000	4.32	103.54	0.00	103.54	
								3/18/2008 0000	3.94	103.92	0.00	103.92	
								6/9/2008 0000	5.69	102.17	0.00	102.17	
								9/23/2008 0000	5.12	102.74	0.00	102.74	
								12/30/2008 0000	3.94	103.92	0.00	103.92	
								3/31/2009 0000	4.60	103.26	0.00	103.26	
								6/16/2009 0000	6.95	100.91	0.00	100.91	
								9/15/2009 0000	6.91	100.95	0.00	100.95	
								12/8/2009 0000	4.34	103.52	0.00	103.52	
								9/21/2011 0000	6.07	101.79	0.00	101.79	
								2/28/2012 0000	4.22	103.64	0.00	103.64	
								7/5/2012 0000	7.63	100.23	0.00	100.23	
								9/26/2012 1203	7.83	100.03	0.00	100.03	
								12/20/2012 1536	4.34	103.52	0.00	103.52	
								4/9/2013 0835	4.91	102.95	0.00	102.95	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								7/5/2013 0938	5.08	102.78	0.00	102.78	
PZ-03D	1061046.881	1119054.834	103.70		105.73	L	1						
								11/3/2005 1121	2.93	102.80	0.00	102.80	
								11/16/2005 0000	2.78	102.95	0.00	102.95	
								12/6/2005 0000	2.69	103.04	0.00	103.04	
								3/9/2006 0000	2.39	103.34	0.00	103.34	
								6/14/2006 0000	3.87	101.86	0.00	101.86	
								9/13/2006 0000	3.09	102.64	0.00	102.64	
								12/12/2006 0000	2.47	103.26	0.00	103.26	
								3/13/2007 0000	2.22	103.51	0.00	103.51	
								6/29/2007 0000	5.44	100.29	0.00	100.29	
								9/19/2007 0000	5.80	99.93	0.00	99.93	
								12/11/2007 0000	3.19	102.54	0.00	102.54	
								3/18/2008 0000	2.56	103.17	0.00	103.17	
								6/9/2008 0000	3.72	102.01	0.00	102.01	
								9/23/2008 0000	3.51	102.22	0.00	102.22	
								12/30/2008 0000	2.41	103.32	0.00	103.32	
								3/31/2009 0000	3.05	102.68	0.00	102.68	
								6/16/2009 0000	4.54	101.19	0.00	101.19	
								9/15/2009 0000	4.65	101.08	0.00	101.08	
								12/8/2009 0000	2.69	103.04	0.00	103.04	
								9/21/2011 0000	4.02	101.71	0.00	101.71	
								2/28/2012 0000	2.96	102.77	0.00	102.77	
								7/5/2012 0000	5.46	100.27	0.00	100.27	
								9/26/2012 1258	4.85	100.88	0.00	100.88	
								12/20/2012 1534	3.13	102.60	0.00	102.60	
								4/9/2013 0830	3.49	102.24	0.00	102.24	
								7/5/2013 0933	3.69	102.04	0.00	102.04	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-03S	1061042.670	1119048.681	103.40		106.32	U	1	11/3/2005 1121	3.59	102.73	0.00	102.73	
								11/16/2005 0000	2.75	103.57	0.00	103.57	
								12/6/2005 0000	NM	-	NM	-	
								3/9/2006 0000	3.05	103.27	0.00	103.27	
								6/14/2006 0000	4.44	101.88	0.00	101.88	
								9/13/2006 0000	3.13	103.19	0.00	103.19	
								12/12/2006 0000	2.96	103.36	0.00	103.36	
								3/13/2007 0000	2.68	103.64	0.00	103.64	
								6/29/2007 0000	5.98	100.34	0.00	100.34	
								9/19/2007 0000	6.29	100.03	0.00	100.03	
								12/11/2007 0000	3.67	102.65	0.00	102.65	
								3/18/2008 0000	3.02	103.30	0.00	103.30	
								6/9/2008 0000	4.30	102.02	0.00	102.02	
								9/23/2008 0000	4.15	102.17	0.00	102.17	
								12/30/2008 0000	2.93	103.39	0.00	103.39	
								3/31/2009 0000	3.59	102.73	0.00	102.73	
								6/16/2009 0000	5.06	101.26	0.00	101.26	
								9/15/2009 0000	5.22	101.10	0.00	101.10	
								12/8/2009 0000	3.38	102.94	0.00	102.94	
								9/21/2011 0000	4.56	101.76	0.00	101.76	
								2/28/2012 0000	3.46	102.86	0.00	102.86	
								7/5/2012 0000	6.11	100.21	0.00	100.21	
								9/26/2012 1256	5.31	101.01	0.00	101.01	
								12/20/2012 1533	3.61	102.71	0.00	102.71	
								4/9/2013 0831	3.95	102.37	0.00	102.37	
								7/5/2013 0935	4.23	102.09	0.00	102.09	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-04D	1061074.512	1118924.040	101.70		104.80	L	1	11/3/2005 1115	7.36	97.44	0.00	97.44	
								11/16/2005 0000	4.01	100.79	0.00	100.79	
								12/6/2005 0000	4.60	100.20	0.00	100.20	
								3/9/2006 0000	5.14	99.66	0.00	99.66	
								6/14/2006 0000	5.76	99.04	0.00	99.04	
								9/13/2006 0000	5.45	99.35	0.00	99.35	
								12/12/2006 0000	4.48	100.32	0.00	100.32	
								3/13/2007 0000	4.13	100.67	0.00	100.67	
								6/29/2007 0000	7.01	97.79	0.00	97.79	
								9/19/2007 0000	8.43	96.37	0.00	96.37	
								12/11/2007 0000	5.58	99.22	0.00	99.22	
								3/18/2008 0000	4.99	99.81	0.00	99.81	
								6/9/2008 0000	6.40	98.40	0.00	98.40	
								9/23/2008 0000	5.81	98.99	0.00	98.99	
								12/30/2008 0000	4.14	100.66	0.00	100.66	
								3/31/2009 0000	5.58	99.22	0.00	99.22	
								6/16/2009 0000	6.83	97.97	0.00	97.97	
								9/15/2009 0000	6.82	97.98	0.00	97.98	
								12/8/2009 0000	4.65	100.15	0.00	100.15	
								9/21/2011 0000	6.69	98.11	0.00	98.11	
								2/28/2012 0000	4.74	100.06	0.00	100.06	
								7/5/2012 0000	7.61	97.19	0.00	97.19	
								9/26/2012 1218	8.09	96.71	0.00	96.71	
								12/20/2012 1541	5.71	99.09	0.00	99.09	
								4/9/2013 0840	6.23	98.57	0.00	98.57	
								7/5/2013 0951	6.41	98.39	0.00	98.39	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-04S	1061070.634	1118919.122	101.60		104.67	U	1	11/3/2005 1116	5.14	99.53	0.00	99.53	
								11/16/2005 0000	3.13	101.54	0.00	101.54	
								12/6/2005 0000	4.67	100.00	0.00	100.00	
								3/9/2006 0000	3.90	100.77	0.00	100.77	
								6/14/2006 0000	5.66	99.01	0.00	99.01	
								9/13/2006 0000	5.48	99.19	0.00	99.19	
								12/12/2006 0000	4.28	100.39	0.00	100.39	
								3/13/2007 0000	2.96	101.71	0.00	101.71	
								6/29/2007 0000	6.93	97.74	0.00	97.74	
								9/19/2007 0000	8.36	96.31	0.00	96.31	
								12/11/2007 0000	5.75	98.92	0.00	98.92	
								3/18/2008 0000	4.94	99.73	0.00	99.73	
								6/9/2008 0000	6.24	98.43	0.00	98.43	
								9/23/2008 0000	5.97	98.70	0.00	98.70	
								12/30/2008 0000	2.98	101.69	0.00	101.69	
								3/31/2009 0000	5.61	99.06	0.00	99.06	
								6/16/2009 0000	6.80	97.87	0.00	97.87	
								9/15/2009 0000	6.69	97.98	0.00	97.98	
								12/8/2009 0000	4.46	100.21	0.00	100.21	
								9/21/2011 0000	6.20	98.47	0.00	98.47	
								2/28/2012 0000	4.93	99.74	0.00	99.74	
								7/5/2012 0000	7.59	97.08	0.00	97.08	
								9/26/2012 1220	8.35	96.32	0.00	96.32	
								12/20/2012 1542	5.74	98.93	0.00	98.93	
								4/9/2013 0842	6.20	98.47	0.00	98.47	
								7/5/2013 0948	6.54	98.13	0.00	98.13	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-05D	1061122.093	1119130.623	102.80		106.20	L	1	11/3/2005 1124	4.40	101.80	0.00	101.80	
								11/16/2005 0000	3.20	103.00	0.00	103.00	
								12/6/2005 0000	4.01	102.19	0.00	102.19	
								3/9/2006 0000	3.23	102.97	0.00	102.97	Assumed,Wellwater Frozen
								6/14/2006 0000	5.07	101.13	0.00	101.13	
								9/13/2006 0000	4.61	101.59	0.00	101.59	
								12/12/2006 0000	3.93	102.27	0.00	102.27	
								3/13/2007 0000	4.01	102.19	0.00	102.19	
								6/29/2007 0000	6.20	100.00	0.00	100.00	
								9/19/2007 0000	7.06	99.14	0.00	99.14	
								12/11/2007 0000	4.21	101.99	0.00	101.99	
								3/18/2008 0000	3.91	102.29	0.00	102.29	
								6/9/2008 0000	5.38	100.82	0.00	100.82	
								9/23/2008 0000	4.39	101.81	0.00	101.81	
								12/30/2008 0000	3.74	102.46	0.00	102.46	
								3/31/2009 0000	4.26	101.94	0.00	101.94	
								6/16/2009 0000	5.73	100.47	0.00	100.47	
								9/15/2009 0000	5.64	100.56	0.00	100.56	
								12/8/2009 0000	3.91	102.29	0.00	102.29	
								9/21/2011 0000	5.54	100.66	0.00	100.66	
								2/28/2012 0000	3.93	102.27	0.00	102.27	
								7/5/2012 0000	6.04	100.16	0.00	100.16	
								9/26/2012 1151	6.51	99.69	0.00	99.69	
								12/20/2012 1530	4.28	101.92	0.00	101.92	
								4/9/2013 0827	4.49	101.71	0.00	101.71	
								7/5/2013 0930	4.55	101.65	0.00	101.65	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-05S	1061118.252	1119127.382	103.00		105.43	U	1	11/3/2005 1124	3.65	101.78	0.00	101.78	
								11/16/2005 0000	2.45	102.98	0.00	102.98	
								12/6/2005 0000	3.28	102.15	0.00	102.15	
								3/9/2006 0000	2.32	103.11	0.00	103.11	Assumed,Wellwater Frozen
								6/14/2006 0000	4.46	100.97	0.00	100.97	
								9/13/2006 0000	3.61	101.82	0.00	101.82	
								12/12/2006 0000	3.19	102.24	0.00	102.24	
								3/13/2007 0000	2.60	102.83	0.00	102.83	
								6/29/2007 0000	5.66	99.77	0.00	99.77	
								9/19/2007 0000	6.20	99.23	0.00	99.23	
								12/11/2007 0000	3.63	101.80	0.00	101.80	
								3/18/2008 0000	2.92	102.51	0.00	102.51	
								6/9/2008 0000	4.72	100.71	0.00	100.71	
								9/23/2008 0000	4.18	101.25	0.00	101.25	
								12/30/2008 0000	2.79	102.64	0.00	102.64	
								3/31/2009 0000	3.65	101.78	0.00	101.78	
								6/16/2009 0000	5.09	100.34	0.00	100.34	
								9/15/2009 0000	5.20	100.23	0.00	100.23	
								12/8/2009 0000	3.28	102.15	0.00	102.15	
								9/21/2011 0000	4.78	100.65	0.00	100.65	
								2/28/2012 0000	3.17	102.26	0.00	102.26	
								7/5/2012 0000	5.51	99.92	0.00	99.92	
								9/26/2012 1152	5.69	99.74	0.00	99.74	
								12/20/2012 1531	3.41	102.02	0.00	102.02	
								4/9/2013 0828	3.90	101.53	0.00	101.53	
								7/5/2013 0928	3.99	101.44	0.00	101.44	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
PZ-06S	1061110.460	1118958.917	101.10		103.78	U	1	6/14/2005 0000	NM	-	NM	-	Well Destroyed
								11/3/2005 1120	2.26	101.52	0.00	101.52	
								3/9/2006 0000	NM	-	NM	-	Well Destroyed
								9/13/2006 0000	NM	-	NM	-	Well Destroyed
								12/12/2006 0000	NM	-	NM	-	Well Destroyed
								3/13/2007 0000	NM	-	NM	-	
PZ-07D	1061167.578	1119102.081	102.50		105.10	L	1	11/3/2005 1128	4.42	100.68	0.00	100.68	
								11/16/2005 0000	3.88	101.22	0.00	101.22	
								12/6/2005 0000	4.31	100.79	0.00	100.79	
								3/9/2006 0000	4.37	100.73	0.00	100.73	
								6/14/2006 0000	4.81	100.29	0.00	100.29	
								9/13/2006 0000	4.55	100.55	0.00	100.55	
								12/12/2006 0000	4.21	100.89	0.00	100.89	
								3/13/2007 0000	3.59	101.51	0.00	101.51	
								6/29/2007 0000	6.19	98.91	0.00	98.91	
								9/19/2007 0000	7.48	97.62	0.00	97.62	
								12/11/2007 0000	4.47	100.63	0.00	100.63	
								3/18/2008 0000	4.14	100.96	0.00	100.96	
								6/9/2008 0000	5.05	100.05	0.00	100.05	
								9/23/2008 0000	4.74	100.36	0.00	100.36	
								12/30/2008 0000	4.08	101.02	0.00	101.02	
								3/31/2009 0000	4.59	100.51	0.00	100.51	
								6/16/2009 0000	5.27	99.83	0.00	99.83	
								9/15/2009 0000	5.38	99.72	0.00	99.72	
								12/8/2009 0000	3.82	101.28	0.00	101.28	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/21/2011 0000	5.30	99.80	0.00	99.80	
								2/28/2012 0000	4.40	100.70	0.00	100.70	
								7/5/2012 0000	5.89	99.21	0.00	99.21	
								9/26/2012 1133	5.34	99.76	0.00	99.76	
								12/20/2012 1514	4.43	100.67	0.00	100.67	
								4/9/2013 0818	4.82	100.28	0.00	100.28	
								7/5/2013 0916	4.94	100.16	0.00	100.16	
PZ-07S	1061164.596	1119093.524	102.30		105.25	U	1	11/3/2005 1128	4.60	100.65	0.00	100.65	
								11/16/2005 0000	3.93	101.32	0.00	101.32	
								12/6/2005 0000	4.39	100.86	0.00	100.86	
								3/9/2006 0000	4.42	100.83	0.00	100.83	
								6/14/2006 0000	4.85	100.40	0.00	100.40	
								9/13/2006 0000	4.38	100.87	0.00	100.87	
								12/12/2006 0000	4.22	101.03	0.00	101.03	
								3/13/2007 0000	4.36	100.89	0.00	100.89	
								6/29/2007 0000	5.88	99.37	0.00	99.37	
								9/19/2007 0000	6.37	98.88	0.00	98.88	
								12/11/2007 0000	4.55	100.70	0.00	100.70	
								3/18/2008 0000	3.89	101.36	0.00	101.36	
								6/9/2008 0000	5.09	100.16	0.00	100.16	
								9/23/2008 0000	4.68	100.57	0.00	100.57	
								12/30/2008 0000	3.93	101.32	0.00	101.32	
								3/31/2009 0000	4.57	100.68	0.00	100.68	
								6/16/2009 0000	5.29	99.96	0.00	99.96	
								9/15/2009 0000	5.41	99.84	0.00	99.84	
								12/8/2009 0000	4.38	100.87	0.00	100.87	
								9/21/2011 0000	5.48	99.77	0.00	99.77	

NM - No Measurement

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Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								2/28/2012 0000	4.41	100.84	0.00	100.84	
								7/5/2012 0000	5.87	99.38	0.00	99.38	
								9/26/2012 1135	5.40	99.85	0.00	99.85	
								12/20/2012 1515	4.49	100.76	0.00	100.76	
								4/9/2013 0817	4.90	100.35	0.00	100.35	
								7/5/2013 0913	4.98	100.27	0.00	100.27	
PZ-08S	1061182.870	1119044.295	101.70		105.08	U	1	11/3/2005 1130	4.57	100.51	0.00	100.51	
								11/16/2005 0000	3.33	101.75	0.00	101.75	
								12/6/2005 0000	4.22	100.86	0.00	100.86	
								3/9/2006 0000	3.52	101.56	0.00	101.56	
								6/14/2006 0000	5.08	100.00	0.00	100.00	
								9/13/2006 0000	3.91	101.17	0.00	101.17	
								12/12/2006 0000	4.02	101.06	0.00	101.06	
								3/13/2007 0000	3.36	101.72	0.00	101.72	
								6/29/2007 0000	6.29	98.79	0.00	98.79	
								9/19/2007 0000	7.62	97.46	0.00	97.46	
								12/11/2007 0000	4.61	100.47	0.00	100.47	
								3/18/2008 0000	4.18	100.90	0.00	100.90	
								6/9/2008 0000	5.11	99.97	0.00	99.97	
								9/23/2008 0000	4.74	100.34	0.00	100.34	
								12/30/2008 0000	4.11	100.97	0.00	100.97	
								3/31/2009 0000	4.61	100.47	0.00	100.47	
								6/16/2009 0000	5.52	99.56	0.00	99.56	
								9/15/2009 0000	5.67	99.41	0.00	99.41	
								12/8/2009 0000	4.56	100.52	0.00	100.52	
								9/21/2011 0000	5.75	99.33	0.00	99.33	
								2/28/2012 0000	4.75	100.33	0.00	100.33	

NM - No Measurement

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Geologic Zone:

B Backfill
L Lower Till / Confined Bedrock Unit
U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								7/5/2012 0000	6.27	98.81	0.00	98.81	
								9/26/2012 1139	6.37	98.71	0.00	98.71	
								12/20/2012 1513	5.13	99.95	0.00	99.95	
								4/9/2013 0815	5.18	99.90	0.00	99.90	
								7/5/2013 0901	5.38	99.70	0.00	99.70	
PZ-09S	1061205.909	1119167.589	102.60		106.38	U	1	11/3/2005 1125	5.04	101.34	0.00	101.34	
								11/16/2005 0000	4.02	102.36	0.00	102.36	
								12/6/2005 0000	4.99	101.39	0.00	101.39	
								3/9/2006 0000	5.16	101.22	0.00	101.22	
								6/14/2006 0000	6.14	100.24	0.00	100.24	
								9/13/2006 0000	5.68	100.70	0.00	100.70	
								12/12/2006 0000	4.75	101.63	0.00	101.63	
								3/13/2007 0000	4.64	101.74	0.00	101.74	
								6/29/2007 0000	7.19	99.19	0.00	99.19	
								9/19/2007 0000	8.98	97.40	0.00	97.40	
								12/11/2007 0000	5.01	101.37	0.00	101.37	
								3/18/2008 0000	4.46	101.92	0.00	101.92	
								6/9/2008 0000	6.03	100.35	0.00	100.35	
								9/23/2008 0000	5.09	101.29	0.00	101.29	
								12/30/2008 0000	4.56	101.82	0.00	101.82	
								3/31/2009 0000	5.13	101.25	0.00	101.25	
								6/16/2009 0000	6.96	99.42	0.00	99.42	
								9/15/2009 0000	6.83	99.55	0.00	99.55	
								12/8/2009 0000	4.84	101.54	0.00	101.54	
								9/21/2011 0000	7.00	99.38	0.00	99.38	
								2/28/2012 0000	4.89	101.49	0.00	101.49	
								7/5/2012 0000	7.42	98.96	0.00	98.96	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								9/26/2012 1121	7.64	98.74	0.00	98.74	
								12/20/2012 1517	4.91	101.47	0.00	101.47	
								4/9/2013 0826	5.33	101.05	0.00	101.05	
								7/5/2013 0920	5.36	101.02	0.00	101.02	
RW-01	1061171.187	1118970.030	101.10	104.05	103.90	B	1	11/16/2005 0000	2.31	101.59	0.00	101.59	
								12/6/2005 0000	2.69	101.21	0.00	101.21	
								3/9/2006 0000	2.22	101.68	0.00	101.68	
								6/14/2006 0000	3.21	100.69	0.00	100.69	
								9/13/2006 0000	2.54	101.36	0.00	101.36	
								12/12/2006 0000	2.59	101.31	0.00	101.31	
								3/13/2007 0000	2.34	101.56	0.00	101.56	
								6/29/2007 0000	4.21	99.69	0.00	99.69	
								9/19/2007 0000	5.11	98.79	0.00	98.79	
								12/11/2007 0000	3.02	100.88	0.00	100.88	
								3/18/2008 0000	2.52	101.38	0.00	101.38	
								6/9/2008 0000	3.45	100.45	0.00	100.45	
								9/23/2008 0000	3.16	100.74	0.00	100.74	
								12/30/2008 0000	2.43	101.47	0.00	101.47	
								3/31/2009 0000	2.61	101.29	0.00	101.29	
								6/16/2009 0000	3.61	100.29	0.00	100.29	
								9/15/2009 0000	3.76	100.14	0.00	100.14	
								12/8/2009 0000	2.59	101.31	0.00	101.31	
								9/21/2011 0000	3.49	100.41	0.00	100.41	
								2/28/2012 0000	2.61	101.29	0.00	101.29	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1250	4.04	99.86	0.00	99.86	
								12/20/2012 1559	2.80	101.10	0.00	101.10	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

TABLE 2-3
FORMER DOWELL SITE
HISTORICAL GROUNDWATER ELEVATIONS

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
								4/9/2013 0805	3.27	100.63	0.00	100.63	
								7/5/2013 0855	3.13	100.77	0.00	100.77	
RW-02	1061104.123	1119044.860	102.20	104.90	104.72	B	1						
								11/16/2005 0000	3.02	101.70	0.00	101.70	
								12/6/2005 0000	3.40	101.32	0.00	101.32	
								3/9/2006 0000	2.86	101.86	0.00	101.86	
								6/14/2006 0000	4.01	100.71	0.00	100.71	
								9/13/2006 0000	3.32	101.40	0.00	101.40	
								12/12/2006 0000	3.36	101.36	0.00	101.36	
								3/13/2007 0000	3.10	101.62	0.00	101.62	
								6/29/2007 0000	5.02	99.70	0.00	99.70	
								9/19/2007 0000	5.93	98.79	0.00	98.79	
								12/11/2007 0000	3.83	100.89	0.00	100.89	
								3/18/2008 0000	3.30	101.42	0.00	101.42	
								6/9/2008 0000	4.29	100.43	0.00	100.43	
								9/23/2008 0000	3.95	100.77	0.00	100.77	
								12/30/2008 0000	3.15	101.57	0.00	101.57	
								3/31/2009 0000	3.55	101.17	0.00	101.17	
								6/16/2009 0000	4.40	100.32	0.00	100.32	
								9/15/2009 0000	4.58	100.14	0.00	100.14	
								12/8/2009 0000	3.35	101.37	0.00	101.37	
								9/21/2011 0000	4.29	100.43	0.00	100.43	
								2/28/2012 0000	3.39	101.33	0.00	101.33	
								7/5/2012 0000	NM	-	NM	-	Could Not Open
								9/26/2012 1253	4.83	99.89	0.00	99.89	
								12/20/2012 1532	3.57	101.15	0.00	101.15	
								4/9/2013 0807	4.08	100.64	0.00	100.64	
								7/5/2013 0956	3.90	100.82	0.00	100.82	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

B Backfill

L Lower Till / Confined Bedrock Unit

U Upper Till / Unconfined Unit

APPENDIX A

GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-01

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 10.22 Depth to Well Bottom: 28.85 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 11.5 L Estimated Purge Volume: 5.7 L

Sample ID: MW-01-07/13 Sample Time: 1410 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1342	9.01	23.64	0.620	0.64	60.3	-36	150	11.10
1347	8.11	21.77	0.621	0.00	36.2	-78	150	12.07
1352	8.12	20.20	0.638	0.00	22.4	-86	150	13.22
1357	8.10	19.56	0.651	0.00	20.4	-87	150	14.40
1402	8.08	19.61	0.655	0.00	22.1	-88	150	15.60
1407	8.07	20.27	0.652	0.00	19.4	-89	150	16.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.
3. Pump on at 1339.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-02

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.65 Depth to Well Bottom: 26.55 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 14.1 L Estimated Purge Volume: 5.7 L

Sample ID: MW-02-07/13 Sample Time: 1322 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1257	10.65	22.84	0.807	2.00	26.6	-139	150	3.80
1302	8.56	22.37	0.603	0.00	10.9	-145	150	5.06
1307	8.52	21.42	0.584	0.00	16.0	-152	150	5.60
1312	8.54	20.21	0.593	0.00	14.7	-160	150	6.20
1317	8.55	20.11	0.593	0.00	17.0	-161	150	8.86
1322	8.58	20.38	0.587	0.00	8.2	-162	150	9.69
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.
3. Pump on at 1253.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-04

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 4.45 Depth to Well Bottom: 27.55 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 14.3 L Estimated Purge Volume: 4.7 L

Sample ID: MW-04-07/13 Sample Time: 1232 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1200	8.33	17.93	6.48	1.08	81.2	-102	150	5.06
1205	8.37	16.65	7.00	0.00	21.0	-149	150	5.84
1210	8.37	16.46	7.04	0.00	13.7	-153	150	6.87
1215	8.40	16.00	7.03	0.00	21.1	-158	150	7.88
1220	8.44	15.94	7.02	0.00	15.8	-162	150	9.22
1225	8.46	16.03	7.00	0.00	8.3	-164	150	10.99
1230	8.45	16.17	6.99	0.00	7.5	-164	150	11.01
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Roadbox has one 3/4-inch bolt.
3. Pump on at 1159.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06S

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 1.74 Depth to Well Bottom: 19.92 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 18.8 L Estimated Purge Volume: 4.5 L

Sample ID: MW-06-07/13 Sample Time: 0858 QA/QC: MS/MSD

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
0828	8.26	17.52	2.38	2.14	6.7	42	150	2.20
0833	7.75	16.15	2.43	0.19	6.3	-35	150	2.90
0838	7.90	15.79	2.39	0.00	5.1	-43	150	3.40
0843	7.88	15.48	2.32	0.00	4.7	-42	150	4.00
0848	7.88	15.47	2.31	0.00	5.5	-42	150	4.60
0853	7.88	15.43	2.33	0.00	4.6	-44	150	5.00
0858	7.89	15.29	2.35	0.00	5.8	-45	150	5.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-06D.
3. Roadbox has 9/16-inch bolts. Both are stripped and missing.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-06D

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 5.40 Static WL = 1.61' Depth to Well Bottom: 29.64 Well Diameter: Two Inch Screen Length: 15 feet

Casing Type: PVC Volume in 1 Well Casing: 17.2 L Estimated Purge Volume: 4.5 L

Sample ID: MW-06D-07/13 Sample Time: 0948 QA/QC: Duplicate FD-07/13

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
0918	7.97	19.26	3.07	0.39	118.0	-43	150	5.45
0923	7.88	18.03	3.17	0.00	98.8	-61	150	7.00
0928	7.88	17.57	3.19	0.00	49.9	-69	150	7.56
0933	7.88	17.16	3.20	0.00	36.4	-74	150	8.00
0938	7.89	17.23	3.19	0.00	24.4	-78	150	8.45
0943	7.89	17.07	3.22	0.00	19.5	-81	150	9.00
0948	7.90	17.27	3.21	0.00	21.9	-83	150	9.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-06S.
4. Roadbox has 3/4-inch bolts.
5. Depth to water at start of purge = 5.40'. There was a 4' drop in water levels during the purging of adjacent MW-06S.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07S

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.73 Depth to Well Bottom: 18.95 Well Diameter: 5.25 L Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 9.4 L Estimated Purge Volume: 5.25 L

Sample ID: MW-07S-07/13 Sample Time: 1040 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1005	8.47	19.70	0.827	1.43	10.7	51	150	3.75
1010	8.13	16.85	0.858	0.00	8.3	17	150	5.80
1015	8.08	16.69	0.855	0.00	10.4	15	150	7.70
1020	8.09	17.11	0.830	0.00	7.1	19	150	8.90
1025	8.12	17.30	0.846	0.00	6.6	21	150	9.40
1030	8.15	17.45	0.841	0.28	5.9	24	150	9.90
1035	8.20	17.54	0.841	0.49	6.6	29	150	10.10
1040	8.25	17.30	0.849	2.38	14.8	31	150	NM
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Standing water inside road box; removed water prior to removing J-plug.
3. Monitoring well associated with MW-07D.
4. Roadbox has one 5/8-inch bolt and one 3/4-inch bolt.
5. NM= Not measured.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** MW-07D

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 4.21 Depth to Well Bottom: 30.19 Well Diameter: Two Inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 16 L Estimated Purge Volume: 8.4 L

Sample ID: MW-07D-07/13 Sample Time: 1144 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1102	8.37	22.74	0.635	1.68	22.2	76	150	4.30
1107	8.42	21.77	0.621	0.00	10.3	77	150	6.00
1112	8.46	21.09	0.631	0.00	13.6	68	150	7.00
1118	8.41	20.65	0.636	0.00	6.6	58	150	8.50
1122	8.41	20.47	0.638	0.00	6.8	51	150	9.17
1127	8.42	20.32	0.639	0.00	7.6	37	150	10.13
1132	8.46	20.15	0.637	0.00	8.1	17	150	11.12
1137	8.49	20.17	0.635	0.00	10.3	0.0	150	12.20
1142	8.51	20.22	0.637	0.00	8.6	-8.0	150	13.91
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Monitoring well associated with MW-07S.
3. Roadbox has 3/4-inch bolts.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176866.00000 **Site:** Former Dowell Site Walden Ave. **Well I.D.:** RW-01

Date: 07/05/13 **Sampling Personnel:** John Boyd and Kevin McGovern **Company:** URS Corporation

Purging/Sampling Device: Low Flow Peristaltic Pump Tubing Type: LDPE and Silicone Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: TOIC Initial Depth to Water: 3.13 Depth to Well Bottom: 18.35 Well Diameter: Four-inch Screen Length: 10 feet

Casing Type: PVC Volume in 1 Well Casing: 37.6 L Estimated Purge Volume: 7 L

Sample ID: RW-01-07/13 Sample Time: 1502 QA/QC: None

Sample Parameters: TCL VOCs (Method 8260B).

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mv)	FLOW RATE (ml/min.)	TO WATER (btor)
1430	9.03	26.72	0.260	1.33	411.0	-8	150	3.28
1436	7.74	20.91	0.522	0.00	62.1	-116	200	3.28
1440	7.71	20.52	0.521	0.00	46.8	-116	200	3.28
1445	7.70	20.88	0.522	0.00	38.7	-119	200	3.28
1450	7.62	20.26	0.522	0.00	20.0	-116	200	3.28
1455	7.61	20.56	0.526	0.00	18.8	-118	200	3.28
1500	7.65	21.00	0.527	0.00	16.9	-120	200	3.28
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:
1. J-plug was in place and intact.
2. Above ground protective casing sound.
3. Pump on at 1427.

APPENDIX B

FIELD NOTES

PROJECT Dowell, Walden Ave (Depew) Notebook No. _____ 61
Continued From Page _____

7/5/13 Friday
wx: Partly cloudy, hot - 80°F, breezy from SW.
0745 John Boyd arrived at the site. Lubricated the gate, then opened the gate and parked inside
0800 Kevin McGovern arrived on site.
0803 Began measuring depths to water and total depths in the monitoring wells.

TIME	WELL	DEPTH TO WATER	TOTAL DEPTH	COMMENTS
0855	RW-01	3.13	18.35	
0956	RW-02	3.90	15.94	
0943	PZ-01S	5.18	15.11	
0945	PZ-01D	5.38	27.04	
0938	PZ-02S	5.08	16.49	
0935	PZ03S	4.23	15.00	
0933	PZ-03D	3.69	26.95	
0948	PZ-04S	6.54	15.12	
0957	PZ04D	6.41	27.10	
0928	PZ-05S	3.99	14.98	
0930	PZ05D	4.55	26.65	
0913	PZ07S	4.98	14.80	
0916	PZ-07D	4.94	27.03	
0901	PZ-08S	5.38	14.99	
0920	PZ09S	5.36	1500	
0940	MW-01	10.22	28.85	
0924	MW-02	3.65	26.55	Roadbox full of H_2O
0910	MW-04	4.45	27.55	Roadbox full of H_2O
0840	MW-07S	3.73	18.95	Roadbox full of H_2O
0851	MW-07D	4.21	30.19	
0803	MW-06S	1.74	19.92	
0807	MW-06D	1.61	29.64	Roadbox full of H_2O

0818 Set up on MW-06S
0826 Began purging MW-06S
0858 Collected sample MW-06S-07/13 for VOCs, plus MS/MSD
0916 Began purging MW-06D
0948 Collected sample MW-06D-07/13 for VOCs, plus dup FD-07/13

Continued on Page

Read and Understood By

John Boyd 7/5/13
Signed Date Signed Date

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PROJECT Dowell Walden Ave.

Notebook No. _____

Continued From Page _____

1003	Began purging MW-07S
1040	Collected sample MW-07S-07/13 for VOC's
1100	Began purging MW-07D
1144	Collected Sample MW-07D-07/13 for VOC's
1158	Began purging MW-04
1232	Collected sample MW-04-07/13 for VOC's
1255	Began purging MW-02
1322	Collected sample MW-02-07/13 for VOC's
1339	Began purging MW-01
1410	Collected sample MW-01-07/13 for VOC's
1427	Began purging RW-01
1502	Collected Sample RW-01-07/13 for VOC's
1518	Left SITE. John Boyd drove TO TEST America's
1600	Delivered samples at TEST America, Then drove home

Continued on Page

Read and Understood By

John Boyd — Signed

7/5/13 — Date

Signed

Date

APPENDIX C

ANALYTICAL DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-41438-1

Job Description: Dowell - Depew Site

For:
URS Corporation
77 Goodell Street
Buffalo, NY 14203

Attention: Mr. George Kisluk

Approved for release.
Melissa L Deyo
Project Manager I
7/23/2013 2:00 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
melissa.deyo@testamericainc.com
07/23/2013

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-41438-1

Receipt
The samples were received on 7/5/2013 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06S-07/13 (480-41438-1), MW-06S-07/13 (480-41438-1 MS), MW-06S-07/13 (480-41438-1 MSD), FD-07/13 (480-41438-2 DL) and MW-06D-07/13 (480-41438-3). Elevated reporting limits (RLs) are provided.

Method 8260B: The following volatile sample was analyzed with headspace in the sample vial due to multiple injections and/or limited volume: FD-07/13 (480-41438-2 DL).

Method 8260B: The analyte 1,1,1-Trichloroethane was detected in sample FD-07/13 (480-41438-2) at a concentration above the linear range of the initial calibration standard curve, requiring a dilution. Due to the high dilution dictated by the concentration of 1,1-Dichloroethene, 1,1,1-Trichloroethane was diluted out in sample FD-07/13 (480-41438-2). The over range value has been reported and qualified for this sample.

Method 8260B: Due to the high concentration of 1,1-Dichloroethane, the matrix spike / matrix spike duplicate (MS/MSD) for batch 128774 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-41438-1

SDG No.:

Instrument ID: HP5973N Analysis Batch Number: 128111

Lab Sample ID: 480-41438-2 Client Sample ID: FD-07/13

Date Analyzed: 07/10/13 18:40 Lab File ID: N8685.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	2.84	Missed Peak	gigliad	07/16/13 16:40

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-41438-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-41438-1	MW-06S-07/13	Water	07/05/2013 0858	07/05/2013 1600
480-41438-1MS	MW-06S-07/13	Water	07/05/2013 0858	07/05/2013 1600
480-41438-1MSD	MW-06S-07/13	Water	07/05/2013 0858	07/05/2013 1600
480-41438-2	FD-07/13	Water	07/05/2013 0000	07/05/2013 1600
480-41438-3	MW-06D-07/13	Water	07/05/2013 0948	07/05/2013 1600
480-41438-4	MW-07S-07/13	Water	07/05/2013 1040	07/05/2013 1600
480-41438-5	MW-07D-07/13	Water	07/05/2013 1144	07/05/2013 1600
480-41438-6	MW-04-07/13	Water	07/05/2013 1232	07/05/2013 1600
480-41438-7	MW-02-07/13	Water	07/05/2013 1322	07/05/2013 1600
480-41438-8	MW-01-07/13	Water	07/05/2013 1410	07/05/2013 1600
480-41438-9	RW-01-07/13	Water	07/05/2013 1502	07/05/2013 1600
480-41438-10	TRIP BLANK	Water	07/05/2013 0000	07/05/2013 1600

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-41438-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-41438-1	**MW-06S-07/13**					
1,1,1-Trichloroethane		240		200	ug/L	8260B
1,1-Dichloroethane		12000		200	ug/L	8260B
Chloroethane		530		200	ug/L	8260B
480-41438-2	**FD-07/13**					
1,1,1-Trichloroethane		180	E	1.0	ug/L	8260B
1,1-Dichloroethane		12000		200	ug/L	8260B
1,1-Dichloroethene		32		1.0	ug/L	8260B
1,2-Dichloroethane		3.6		1.0	ug/L	8260B
1,2-Dichloroethene, Total		13		2.0	ug/L	8260B
Benzene		0.48	J	1.0	ug/L	8260B
Chloroethane		450		200	ug/L	8260B
cis-1,2-Dichloroethene		13		1.0	ug/L	8260B
Methyl tert-butyl ether		0.92	J	1.0	ug/L	8260B
Methylene Chloride		0.82	J	1.0	ug/L	8260B
Vinyl chloride		6.2		1.0	ug/L	8260B
480-41438-3	**MW-06D-07/13**					
1,1-Dichloroethane		13000		200	ug/L	8260B
Chloroethane		450		200	ug/L	8260B
480-41438-4	**MW-07S-07/13**					
1,1-Dichloroethane		1.1		1.0	ug/L	8260B
480-41438-9	**RW-01-07/13**					
1,1-Dichloroethane		3.1		1.0	ug/L	8260B
1,2-Dichlorobenzene		1.6		1.0	ug/L	8260B
1,2-Dichloroethene, Total		11		2.0	ug/L	8260B
Chloroethane		1.4		1.0	ug/L	8260B
cis-1,2-Dichloroethene		11		1.0	ug/L	8260B
Cyclohexane		0.19	J	1.0	ug/L	8260B
Vinyl chloride		21		1.0	ug/L	8260B

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-41438-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-41438-1

Method	Analyst	Analyst ID
SW846 8260B	Dias, Nicole M	NMD1
SW846 8260B	Larson, Renee A	RAL
SW846 8260B	Nguyen-Dudziak, Nhu Quynh	NQN

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-06S-07/13**

Lab Sample ID: 480-41438-1
Client Matrix: Water

Date Sampled: 07/05/2013 0858
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8678.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1555			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1555				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	240		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	12000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND	*	52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	530		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-06S-07/13**

Lab Sample ID: 480-41438-1
Client Matrix: Water

Date Sampled: 07/05/2013 0858
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8678.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1555			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1555				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **FD-07/13**

Lab Sample ID: 480-41438-2
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8685.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1840			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1840				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	180	E	0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1100	E	0.38	1.0
1,1-Dichloroethene	32		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	3.6		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	13		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	0.48	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND	*	0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	430	E	0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	13		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	0.92	J	0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	0.82	J	0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **FD-07/13**

Lab Sample ID: 480-41438-2
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8685.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1840			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1840				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	6.2		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **FD-07/13**

Lab Sample ID: 480-41438-2
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128283	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8719.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 1244	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 1244				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	12000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND	*	52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	450		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **FD-07/13**

Lab Sample ID: 480-41438-2
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128283	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8719.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 1244	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 1244				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
Toluene-d8 (Surr)	92		71 - 126
4-Bromofluorobenzene (Surr)	92		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-06D-07/13**

Lab Sample ID: 480-41438-3
Client Matrix: Water

Date Sampled: 07/05/2013 0948
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8679.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1619			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1619				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		160	200
1,1,2,2-Tetrachloroethane	ND		42	200
1,1,2-Trichloroethane	ND		46	200
1,1,2-Trichlorotrifluoroethane	ND		62	200
1,1-Dichloroethane	13000		76	200
1,1-Dichloroethene	ND		58	200
1,2,4-Trichlorobenzene	ND		82	200
1,2-Dibromo-3-Chloropropane	ND		78	200
1,2-Dibromoethane (EDB)	ND		150	200
1,2-Dichlorobenzene	ND		160	200
1,2-Dichloroethane	ND		42	200
1,2-Dichloropropane	ND		140	200
1,3-Dichlorobenzene	ND		160	200
1,4-Dichlorobenzene	ND		170	200
2-Hexanone	ND		250	1000
2-Butanone (MEK)	ND		260	2000
1,2-Dichloroethene, Total	ND		140	400
4-Methyl-2-pentanone (MIBK)	ND		420	1000
Acetone	ND		600	2000
Benzene	ND		82	200
Bromodichloromethane	ND		78	200
Bromoform	ND	*	52	200
Bromomethane	ND		140	200
Carbon disulfide	ND		38	200
Carbon tetrachloride	ND		54	200
Chlorobenzene	ND		150	200
Chlorodibromomethane	ND		64	200
Chloroethane	450		64	200
Chloroform	ND		68	200
Chloromethane	ND		70	200
cis-1,2-Dichloroethene	ND		160	200
cis-1,3-Dichloropropene	ND		72	200
Cyclohexane	ND		36	200
Dichlorodifluoromethane	ND		140	200
Ethylbenzene	ND		150	200
Isopropylbenzene	ND		160	200
Methyl acetate	ND		100	200
Methyl tert-butyl ether	ND		32	200
Methylcyclohexane	ND		32	200
Methylene Chloride	ND		88	200
Styrene	ND		150	200
Tetrachloroethene	ND		72	200
Toluene	ND		100	200
trans-1,2-Dichloroethene	ND		180	200
trans-1,3-Dichloropropene	ND		74	200
Trichloroethene	ND		92	200

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-06D-07/13**

Lab Sample ID: 480-41438-3
Client Matrix: Water

Date Sampled: 07/05/2013 0948
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8679.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1619			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1619				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		180	200
Vinyl chloride	ND		180	200
Xylenes, Total	ND		130	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-07S-07/13**

Lab Sample ID: 480-41438-4
Client Matrix: Water

Date Sampled: 07/05/2013 1040
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8680.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1642			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1642				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1.1		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND	*	0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-07S-07/13**

Lab Sample ID: 480-41438-4
Client Matrix: Water

Date Sampled: 07/05/2013 1040
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8680.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1642			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1642				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-07D-07/13**

Lab Sample ID: 480-41438-5
Client Matrix: Water

Date Sampled: 07/05/2013 1144
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0158			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0158				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-07D-07/13**

Lab Sample ID: 480-41438-5
Client Matrix: Water

Date Sampled: 07/05/2013 1144
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0158			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0158				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-04-07/13**

Lab Sample ID: 480-41438-6
Client Matrix: Water

Date Sampled: 07/05/2013 1232
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0222			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-04-07/13**

Lab Sample ID: 480-41438-6
Client Matrix: Water

Date Sampled: 07/05/2013 1232
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0222			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	96		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-02-07/13**

Lab Sample ID: 480-41438-7
Client Matrix: Water

Date Sampled: 07/05/2013 1322
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0246			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0246				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-02-07/13**

Lab Sample ID: 480-41438-7
Client Matrix: Water

Date Sampled: 07/05/2013 1322
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0246			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0246				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	94		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-01-07/13**

Lab Sample ID: 480-41438-8
Client Matrix: Water

Date Sampled: 07/05/2013 1410
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0310			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **MW-01-07/13**

Lab Sample ID: 480-41438-8
Client Matrix: Water

Date Sampled: 07/05/2013 1410
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0310			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	96		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **RW-01-07/13**

Lab Sample ID: 480-41438-9
Client Matrix: Water

Date Sampled: 07/05/2013 1502
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0333			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	3.1		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	1.6		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	11		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	1.4		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	11		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	0.19	J	0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **RW-01-07/13**

Lab Sample ID: 480-41438-9
Client Matrix: Water

Date Sampled: 07/05/2013 1502
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0333			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	21		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
Toluene-d8 (Surr)	90		71 - 126
4-Bromofluorobenzene (Surr)	91		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-41438-10
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8701.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0357			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0357				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Client: URS Corporation

Job Number: 480-41438-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-41438-10
Client Matrix: Water

Date Sampled: 07/05/2013 0000
Date Received: 07/05/2013 1600

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N8701.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 0357			Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 0357				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	93		71 - 126
4-Bromofluorobenzene (Surr)	92		73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-41438-1	MW-06S-07/13	102	98	98
480-41438-2	FD-07/13	103	98	100
480-41438-2 DL	FD-07/13 DL	95	92	92
480-41438-3	MW-06D-07/13	102	97	97
480-41438-4	MW-07S-07/13	104	99	99
480-41438-5	MW-07D-07/13	98	95	97
480-41438-6	MW-04-07/13	99	94	96
480-41438-7	MW-02-07/13	99	96	94
480-41438-8	MW-01-07/13	97	96	96
480-41438-9	RW-01-07/13	96	90	91
480-41438-10	TRIP BLANK	98	93	92
MB 480-128111/6		100	99	101
MB 480-128212/5		101	98	96
MB 480-128283/6		97	95	95
LCS 480-128111/5		99	98	99
LCS 480-128212/4		100	99	101
LCS 480-128283/5		94	96	97
480-41438-1 MS	MW-06S-07/13 MS	98	97	100
480-41438-1 MSD	MW-06S-07/13 MSD	97	99	99

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128111

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128111/6	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8667.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1118	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1118				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128111

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128111/6	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8667.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1118	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1118				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
Toluene-d8 (Surr)	99	71 - 126
4-Bromofluorobenzene (Surr)	101	73 - 120

Lab Control Sample - Batch: 480-128111

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-128111/5	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8666.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1054	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1054				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	22.2	89	71 - 129	
1,1-Dichloroethene	25.0	20.4	81	58 - 121	
1,2-Dichlorobenzene	25.0	23.9	96	80 - 124	
1,2-Dichloroethane	25.0	23.4	94	75 - 127	
Benzene	25.0	23.8	95	71 - 124	
Chlorobenzene	25.0	24.2	97	72 - 120	
cis-1,2-Dichloroethene	25.0	23.1	93	74 - 124	
Ethylbenzene	25.0	24.0	96	77 - 123	
Methyl tert-butyl ether	25.0	23.1	92	64 - 127	
Tetrachloroethene	25.0	23.6	94	74 - 122	
Toluene	25.0	23.2	93	80 - 122	
trans-1,2-Dichloroethene	25.0	23.5	94	73 - 127	
Trichloroethene	25.0	22.9	92	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	66 - 137
Toluene-d8 (Surr)	98	71 - 126
4-Bromofluorobenzene (Surr)	99	73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-128111

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-41438-1	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8681.D
Dilution:	200	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1706			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1706				
Leach Date:	N/A				

MSD Lab Sample ID:	480-41438-1	Analysis Batch:	480-128111	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8682.D
Dilution:	200	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 1729			Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 1729				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	70	57	71 - 129	4	20	F	F
1,1-Dichloroethene	91	85	58 - 121	6	16		
1,2-Dichlorobenzene	102	100	80 - 124	2	20		
1,2-Dichloroethane	97	93	75 - 127	5	20		
Benzene	101	97	71 - 124	4	13		
Chlorobenzene	102	99	72 - 120	3	25		
cis-1,2-Dichloroethene	99	96	74 - 124	3	15		
Ethylbenzene	103	100	77 - 123	3	15		
Methyl tert-butyl ether	93	91	64 - 127	2	37		
Tetrachloroethene	104	97	74 - 122	7	20		
Toluene	99	97	80 - 122	2	15		
trans-1,2-Dichloroethene	100	94	73 - 127	7	20		
Trichloroethene	100	95	74 - 123	5	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	97	66 - 137
Toluene-d8 (Surr)	97	99	71 - 126
4-Bromofluorobenzene (Surr)	100	99	73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-128111

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-41438-1	Units: ug/L	
Client Matrix:	Water		
Dilution:	200		
Analysis Date:	07/10/2013 1706		
Prep Date:	07/10/2013 1706		
Leach Date:	N/A		

MSD Lab Sample ID:	480-41438-1
Client Matrix:	Water
Dilution:	200
Analysis Date:	07/10/2013 1729
Prep Date:	07/10/2013 1729
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1-Dichloroethane	12000	5000	5000	15400	F	14700	F
1,1-Dichloroethene	ND	5000	5000	4540		4270	
1,2-Dichlorobenzene	ND	5000	5000	5080		4990	
1,2-Dichloroethane	ND	5000	5000	4860		4630	
Benzene	ND	5000	5000	5050		4850	
Chlorobenzene	ND	5000	5000	5120		4970	
cis-1,2-Dichloroethene	ND	5000	5000	4960		4810	
Ethylbenzene	ND	5000	5000	5160		5000	
Methyl tert-butyl ether	ND	5000	5000	4630		4530	
Tetrachloroethene	ND	5000	5000	5210		4870	
Toluene	ND	5000	5000	4960		4870	
trans-1,2-Dichloroethene	ND	5000	5000	5000		4690	
Trichloroethene	ND	5000	5000	5000		4750	

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128212

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128212/5	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8690.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 2258	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 2258				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128212

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128212/5	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8690.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 2258	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 2258				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	66 - 137
Toluene-d8 (Surr)	98	71 - 126
4-Bromofluorobenzene (Surr)	96	73 - 120

Lab Control Sample - Batch: 480-128212

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-128212/4	Analysis Batch:	480-128212	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8689.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/10/2013 2234	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/10/2013 2234				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	96	71 - 129	
1,1-Dichloroethene	25.0	23.0	92	58 - 121	
1,2-Dichlorobenzene	25.0	25.7	103	80 - 124	
1,2-Dichloroethane	25.0	24.8	99	75 - 127	
Benzene	25.0	25.6	102	71 - 124	
Chlorobenzene	25.0	25.6	102	72 - 120	
cis-1,2-Dichloroethene	25.0	24.8	99	74 - 124	
Ethylbenzene	25.0	26.1	105	77 - 123	
Methyl tert-butyl ether	25.0	24.5	98	64 - 127	
Tetrachloroethene	25.0	26.0	104	74 - 122	
Toluene	25.0	25.0	100	80 - 122	
trans-1,2-Dichloroethene	25.0	24.6	98	73 - 127	
Trichloroethene	25.0	24.7	99	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
Toluene-d8 (Surr)	99	71 - 126
4-Bromofluorobenzene (Surr)	101	73 - 120

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128283

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128283/6	Analysis Batch:	480-128283	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8717.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 1122	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 1122				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichlorotrifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
1,2-Dichloroethene, Total	ND		0.70	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodibromomethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0

Client: URS Corporation

Job Number: 480-41438-1

Method Blank - Batch: 480-128283

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-128283/6	Analysis Batch:	480-128283	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8717.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 1122	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 1122				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	66 - 137
Toluene-d8 (Surr)	95	71 - 126
4-Bromofluorobenzene (Surr)	95	73 - 120

Lab Control Sample - Batch: 480-128283

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-128283/5	Analysis Batch:	480-128283	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N8716.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/11/2013 1058	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/11/2013 1058				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	96	71 - 129	
1,1-Dichloroethene	25.0	22.3	89	58 - 121	
1,2-Dichlorobenzene	25.0	25.9	104	80 - 124	
1,2-Dichloroethane	25.0	23.9	96	75 - 127	
Benzene	25.0	25.4	102	71 - 124	
Chlorobenzene	25.0	25.1	100	72 - 120	
cis-1,2-Dichloroethene	25.0	24.4	98	74 - 124	
Ethylbenzene	25.0	25.7	103	77 - 123	
Methyl tert-butyl ether	25.0	21.8	87	64 - 127	
Tetrachloroethene	25.0	26.3	105	74 - 122	
Toluene	25.0	25.2	101	80 - 122	
trans-1,2-Dichloroethene	25.0	24.8	99	73 - 127	
Trichloroethene	25.0	24.6	98	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	66 - 137
Toluene-d8 (Surr)	96	71 - 126
4-Bromofluorobenzene (Surr)	97	73 - 120

DATA REPORTING QUALIFIERS

Client: URS Corporation Job Number: 480-41438-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: URS Corporation

Job Number: 480-41438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-128111					
LCS 480-128111/5	Lab Control Sample	T	Water	8260B	
MB 480-128111/6	Method Blank	T	Water	8260B	
480-41438-1	MW-06S-07/13	T	Water	8260B	
480-41438-1MS	Matrix Spike	T	Water	8260B	
480-41438-1MSD	Matrix Spike Duplicate	T	Water	8260B	
480-41438-2	FD-07/13	T	Water	8260B	
480-41438-3	MW-06D-07/13	T	Water	8260B	
480-41438-4	MW-07S-07/13	T	Water	8260B	
Analysis Batch:480-128212					
LCS 480-128212/4	Lab Control Sample	T	Water	8260B	
MB 480-128212/5	Method Blank	T	Water	8260B	
480-41438-5	MW-07D-07/13	T	Water	8260B	
480-41438-6	MW-04-07/13	T	Water	8260B	
480-41438-7	MW-02-07/13	T	Water	8260B	
480-41438-8	MW-01-07/13	T	Water	8260B	
480-41438-9	RW-01-07/13	T	Water	8260B	
480-41438-10	TRIP BLANK	T	Water	8260B	
Analysis Batch:480-128283					
LCS 480-128283/5	Lab Control Sample	T	Water	8260B	
MB 480-128283/6	Method Blank	T	Water	8260B	
480-41438-2DL	FD-07/13	T	Water	8260B	

Report Basis
T = Total

Client: URS Corporation

Job Number: 480-41438-1

Laboratory Chronicle

Lab ID: 480-41438-1 **Client ID:** MW-06S-07/13

Sample Date/Time: 07/05/2013 08:58 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-1		480-128111		07/10/2013 15:55	200	TAL BUF	NMD1
A:8260B	480-41438-A-1		480-128111		07/10/2013 15:55	200	TAL BUF	NMD1

Lab ID: 480-41438-1 **Client ID:** MW-06S-07/13

Sample Date/Time: 07/05/2013 08:58 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-1 MS		480-128111		07/10/2013 17:06	200	TAL BUF	NMD1
A:8260B	480-41438-A-1 MS		480-128111		07/10/2013 17:06	200	TAL BUF	NMD1

Lab ID: 480-41438-1 **Client ID:** MW-06S-07/13

Sample Date/Time: 07/05/2013 08:58 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-1 MSD		480-128111		07/10/2013 17:29	200	TAL BUF	NMD1
A:8260B	480-41438-A-1 MSD		480-128111		07/10/2013 17:29	200	TAL BUF	NMD1

Lab ID: 480-41438-2 **Client ID:** FD-07/13

Sample Date/Time: 07/05/2013 00:00 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-2		480-128111		07/10/2013 18:40	1	TAL BUF	NMD1
A:8260B	480-41438-A-2		480-128111		07/10/2013 18:40	1	TAL BUF	NMD1
P:5030B	480-41438-C-2	DL	480-128283		07/11/2013 12:44	200	TAL BUF	RAL
A:8260B	480-41438-C-2	DL	480-128283		07/11/2013 12:44	200	TAL BUF	RAL

Lab ID: 480-41438-3 **Client ID:** MW-06D-07/13

Sample Date/Time: 07/05/2013 09:48 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-3		480-128111		07/10/2013 16:19	200	TAL BUF	NMD1
A:8260B	480-41438-A-3		480-128111		07/10/2013 16:19	200	TAL BUF	NMD1

Lab ID: 480-41438-4 **Client ID:** MW-07S-07/13

Sample Date/Time: 07/05/2013 10:40 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-4		480-128111		07/10/2013 16:42	1	TAL BUF	NMD1
A:8260B	480-41438-A-4		480-128111		07/10/2013 16:42	1	TAL BUF	NMD1

Client: URS Corporation

Job Number: 480-41438-1

Laboratory Chronicle

Lab ID: 480-41438-5 **Client ID:** MW-07D-07/13

Sample Date/Time: 07/05/2013 11:44 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-5		480-128212		07/11/2013 01:58	1	TAL BUF	NQN
A:8260B	480-41438-A-5		480-128212		07/11/2013 01:58	1	TAL BUF	NQN

Lab ID: 480-41438-6 **Client ID:** MW-04-07/13

Sample Date/Time: 07/05/2013 12:32 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-6		480-128212		07/11/2013 02:22	1	TAL BUF	NQN
A:8260B	480-41438-A-6		480-128212		07/11/2013 02:22	1	TAL BUF	NQN

Lab ID: 480-41438-7 **Client ID:** MW-02-07/13

Sample Date/Time: 07/05/2013 13:22 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-7		480-128212		07/11/2013 02:46	1	TAL BUF	NQN
A:8260B	480-41438-A-7		480-128212		07/11/2013 02:46	1	TAL BUF	NQN

Lab ID: 480-41438-8 **Client ID:** MW-01-07/13

Sample Date/Time: 07/05/2013 14:10 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-8		480-128212		07/11/2013 03:10	1	TAL BUF	NQN
A:8260B	480-41438-A-8		480-128212		07/11/2013 03:10	1	TAL BUF	NQN

Lab ID: 480-41438-9 **Client ID:** RW-01-07/13

Sample Date/Time: 07/05/2013 15:02 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-9		480-128212		07/11/2013 03:33	1	TAL BUF	NQN
A:8260B	480-41438-A-9		480-128212		07/11/2013 03:33	1	TAL BUF	NQN

Lab ID: 480-41438-10 **Client ID:** TRIP BLANK

Sample Date/Time: 07/05/2013 00:00 Received Date/Time: 07/05/2013 16:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-41438-A-10		480-128212		07/11/2013 03:57	1	TAL BUF	NQN
A:8260B	480-41438-A-10		480-128212		07/11/2013 03:57	1	TAL BUF	NQN

Client: URS Corporation

Job Number: 480-41438-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-128111/6		480-128111		07/10/2013 11:18	1	TAL BUF	NMD1
A:8260B	MB 480-128111/6		480-128111		07/10/2013 11:18	1	TAL BUF	NMD1
P:5030B	MB 480-128212/5		480-128212		07/10/2013 22:58	1	TAL BUF	NQN
A:8260B	MB 480-128212/5		480-128212		07/10/2013 22:58	1	TAL BUF	NQN
P:5030B	MB 480-128283/6		480-128283		07/11/2013 11:22	1	TAL BUF	RAL
A:8260B	MB 480-128283/6		480-128283		07/11/2013 11:22	1	TAL BUF	RAL

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-128111/5		480-128111		07/10/2013 10:54	1	TAL BUF	NMD1
A:8260B	LCS 480-128111/5		480-128111		07/10/2013 10:54	1	TAL BUF	NMD1
P:5030B	LCS 480-128212/4		480-128212		07/10/2013 22:34	1	TAL BUF	NQN
A:8260B	LCS 480-128212/4		480-128212		07/10/2013 22:34	1	TAL BUF	NQN
P:5030B	LCS 480-128283/5		480-128283		07/11/2013 10:58	1	TAL BUF	RAL
A:8260B	LCS 480-128283/5		480-128283		07/11/2013 10:58	1	TAL BUF	RAL

Lab References:
TAL BUF = TestAmerica Buffalo

Certification Summary

Client: URS Corporation
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-41438-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

APPENDIX C

SITE-WIDE INSPECTION FORMS

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 2/27/12 **Inspector:** John Boyd

Weather: Partly Cloudy **Signature:** [signature]

Temperature: 40° F **Company:** URS Corp

Quarterly sampling Round

Quarter: (First) Second Third Fourth
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Gate + lock + good condition Lubricated lock + gate Rollers
Soil /Grass Cover	N	High grass Throughout most of site except RW-1+2 area.
Security Fencing, Gates and Locks	N	in good shape.
Monitoring Wells	Y	All in good shape except MW-06D. Missing Road Box cover bolts
Site Drainage	N	Good drainage
Trees, Bushes, Other Vegetation	N	Numerous small bushes + Aspen Trees throughout. Trees up to 15' tall.
Miscellaneous		

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 7/5/2012 **Inspector:** John Boyd

Weather: Partly Cloudy **Signature:** [signature]

Temperature: High 80°F **Company:** URS

Quarter: First Second (~~Circle~~ One) Third Fourth Quarterly Sampling Round

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Gate in Good Shape. Lock is functional. Lock Lubricated.
Soil /Grass Cover	N	Numerous Small (1' to 10' Aspen Trees) Several Aspen Trees > 10'. Tall grass Several areas covered w/ gravel + asphalt.
Security Fencing, Gates and Locks	N	Fencing, gates, Locks in good shape
Monitoring Wells	N	One well (MW-06D) has 2 stripped cover bolts. Locks on RW-1 and RW-2 are frozen.
Site Drainage	N	Drainage appears Good. No standing water noted – No erosion noted.
Trees, Bushes, Other Vegetation	N	See Above
Miscellaneous	N	Grass & Small bushes along Walden Ave. are 1' to 3'. Lots of Trash noted Along Walden Ave. Adjacent to the fence

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 9/26/12 **Inspector:** John Boyd

Weather: Partly Cloudy **Signature:** [signature]

Temperature: 60° F **Company:** CRS

Quarter: First Second Third Fourth (Circle One) Quarterly Sampling Round

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Gate in good shape. Lock is functional and oiled today.
Soil /Grass Cover	N	Numerous small (1' to 10') Aspen Trees and 1' to 3' weeds. Lots of Tall grasses.
Security Fencing, Gates and Locks	N	Fencing in good shape. There is one small opening at SW corner. Approx. pie shaped (2' at bottom narrowing to a few inches about 3' off ground
Monitoring Wells	Y	One well (MW-06D) has 2 stripped bolts. Rest of well bolts in good condition. Locks on RW-1 and RW-2 Rusted shut and will be removed.
Site Drainage	N	No standing water noted during visit (Its been dry lately) No evidence of Surface erosion.
Trees, Bushes, Other Vegetation	N	See Above.
Miscellaneous		Lots of litter and Tall grass + Weeds along Walden Ave., just outside the fence. Will pickup litter on 10/1/12, Then schedule mowing for this area.

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 12/20/12 **Inspector:** JOHN BOYD

Weather: Cloudy **Signature:** [signature]

Temperature: Low 40°F **Company:** URS Corp.

Quarter: First Second Third ~~Fourth~~ (Circle One) QUARTERLY SAMPLING ROUND

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Gate AND Lock in Good Shape Lubricated Lock + Rollers
Soil /Grass Cover	N	High Grasses Along Walden Ave and Throughout the Site.
Security Fencing, Gates and Locks	N	All in good order. Lock works well
Monitoring Wells	Y	All in Good Shape except MW-06D – Has Missing Cam bolts
Site Drainage	N	Well drained. Site dry during site visit
Trees, Bushes, Other Vegetation	N	Numerous small Asphen Trees Throughout the site. 2' to 15'.
Miscellaneous		

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 4/2/13 **Inspector:** KEVIN T. McGOWAN

Weather: SUNNY **Signature:** _____

Temperature: 60°F **Company:** URS

Quarter: ~~First~~ Second Third Fourth (Fifth) QUARTERLY SAMPLING ROUND
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	GATE IS IN GOOD/FAIR SHAPE. LOCK IS RUSTED BUT FUNCTIONAL
Soil /Grass Cover	N	SIGNAGE AREAS COVERED BY GRAVEL/ ASPHALT, VEGETATION DORMANT
Security Fencing, Gates and Locks	N	SEE ABOVE
Monitoring Wells	N	MW-06D HAS 2 STUBBED CORK BOLTS NO LOCKS ON MW-01 + MW-02
Site Drainage	N	NO STANDING WATER, NO EROSION
Trees, Bushes, Other Vegetation	N	SEE ABOVE
Miscellaneous	N	TRASH PASSED ALONG WALDEN AVE ADJACENT TO FENCE

FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 7/5/13 **Inspector:** J. Boyd

Weather: Partly Cloudy, 80°F Breeze from SW **Signature:** [signature]

Temperature: MID + High 80°F **Company:** URS

Quarter: First ~~Second~~ ~~Third~~ ~~Fourth~~ Sixth Quarterly Sampling Round
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Gate and Lock Sound and Functioning
Soil /Grass Cover	N	Site covered almost entirely w/ grasses (about 1-3' high). About 20% of site covered w/ shrubs and small trees – mostly Aspens.
Security Fencing, Gates and Locks	N	All Sound. Lock functioning. Gate Sound and functioning
Monitoring Wells	YES	All in Excellent Condition. Rotbox at MW-06D missing Bolts in the Lid.
Site Drainage	N	Well drained. No standing water observed.
Trees, Bushes, Other Vegetation	N	Numerous small trees + shrubs - about 20% of site cover.
Miscellaneous		