ERM NC, Inc.

1130 Situs Court
Suite 250
Raleigh, NC 27606
(919) 233-4501
(919) 578-9044 (fax)

May 26, 2015

Mr. Sean Boyles
NC Department of Environment and Natural Resources
Division of Waste Management-Superfund Section
225 Green Street, Suite 714
Fayetteville, North Carolina 28301

Submitted by electronic mail

Re: Progress Report for 1st and 2nd Quarters 2015
Former Abbott Labs Facility, Solvent Release Incident
Laurinburg, Scotland County, North Carolina
NCDENR DWM Site #NONCD-000-0040

Dear Mr. Boyles:

ERM NC, Inc. (ERM), on behalf of Abbott Laboratories (Abbott), is pleased to submit the report *Progress Report for 1st and 2nd Quarters 2015: Groundwater Monitoring Program* for the above-referenced site. An electronic version (pdf file) of the subject report is enclosed with this letter.

The current Progress Report provides results of the first 2015 semi-annual groundwater sampling event conducted in April 2015. This routine groundwater sampling event was performed in conjunction with additional remedial investigation (RI) sampling programs, also conducted in April 2015. One important RI sampling result that is included in the current semi-annual report is the detection of low concentrations of 1, 4-Dioxane in one Site well (MW-100B).

Prior to conducting the October/November 2015 semi-annual sampling event, Abbott will submit a revised sampling and analysis plan (SAP) for NCDENR approval. The SAP for future semi-annual groundwater monitoring programs will consider any NCDENR comments to the pending RI Addendum Report and the status of a potential risk-based closure decision for the Site. For the October 2015 sampling event Abbott proposes to generally follow the sampling program that was used for the October 2014 sampling event, outside of any other NCDENR sampling requirements.

Abbott will also consider the expanded use of passive diffusion bags, specifically for deeper wells at the Site. Further, if it appears that the Site will not be eligible for a risk-based remediation closure within a year, Abbott will propose a reduced semi-annual groundwater monitoring program and submittal of one annual monitoring report only starting in 2016. These potential changes to the routine monitoring program will be outlined in the pending SAP.

Please contact either of us at 919-233-4501 with any questions regarding this report.

Sincerely,

S. Grant Watkins

Grant Watkins, P.G., RSM
Partner

Gregory Kanellis

Gregory Kanellis
Project Manager

Attachment: *Progress Report for 1st and 2nd Quarters 2015*

Professional Certification Page

Progress Report for 1st and 2nd Quarters 2015: Groundwater Monitoring Program
Former Abbott Facility
Solvent Release Remediation
Laurinburg, Scotland County, North Carolina

Case # NOCD 000 0040
May 2015

"I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

Mr. Curtis R. Michols
Senior Principal Specialist
Abbott Laboratories

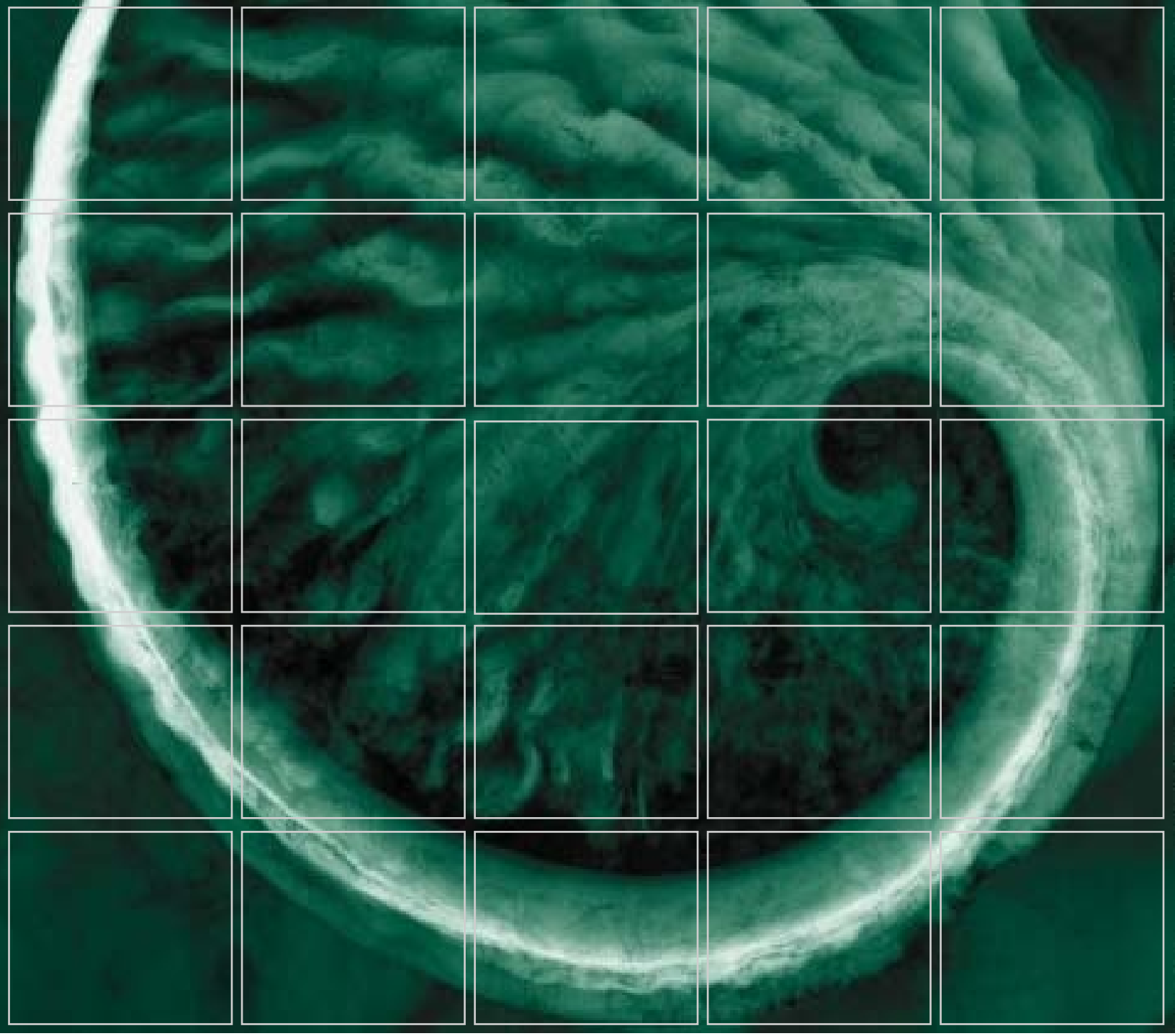
Rosalie E. J 5/29/2015

OFFICIAL SEAL
ROSALIE E JOHNSON
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 11/21/16

S. Grant Watkins
Mr. S. Grant Watkins, P.G., RSM
Principal in Charge
ERM NC, Inc.

County/City of Wake / Cary
Commonwealth/State of NC
The foregoing instrument was acknowledged before me this 26th day of May, 2015
by Stephen Grant Watkins
(name of person seeking acknowledgement)
Margo P. Killette
Notary Public
My Commission Expires March 19, 2016

MARGO P. KILLETTE NOTARY PUBLIC WAKE COUNTY, NC



Abbott Laboratories

Progress Report for 1st and 2nd Quarters 2015: Groundwater Monitoring Program

Former Abbott Facility
Solvent Release Remediation
NCDENR ID: NONCD-000-0040
Laurinburg, Scotland County, North Carolina

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Progress Report for 1st and 2nd Quarters 2015: Groundwater Monitoring Program

Former Abbott Facility
Solvent Release Remediation
NCDENR ID: NONCD-000-0040
Laurinburg, Scotland County, North Carolina

May 2015

Project No. 0272871

Gregory P. Kanellis, EI
Project Manager

S. Grant Watkins, P.G., RSM
Principal-in-Charge

ERM NC, Inc.
1130 Situs Court, Suite 250
Raleigh, North Carolina 27606
(919) 233-4501

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List of Acronyms

Abbott	Abbott Laboratories
AbbVie	AbbVie Global Environment, Health, and Safety Laboratory
ABC®	Anaerobic Biochem
Accutest	Accutest Laboratories
AECOM	AECOM North Carolina, Inc.
AFCEE	Air Force Center for Environmental Excellence
AOC	Administrative Order on Consent
bgs	below ground surface
COC	contaminant of concern
DCA	1,1-dichloroethane
DCE	dichloroethene
DHC	dehalococcoides spp.
DO	dissolved oxygen
DWM	Division of Waste Management
EPA	United States Environmental Protection Agency
ERM	ERM NC, Inc.
Freon 113	trichlorotrifluoroethane
HRC®	Hydrogen Release Compound®
Matrix	Matrix Environmental Southeast, Inc.
MEE	methane/ethane/ethene
MEK	methyl ethyl ketone
mg/L	milligrams per liter
MNA	monitored natural attenuation
MOB	methane oxidizing bacteria
mV	millivolts
NCDENR	North Carolina Department of Environment and Natural Resources
ORP	oxidation-reduction potential
PCE	perchloroethene
Phoenix	Phoenix Environmental Associates, Inc.
PVC	polyvinyl chloride
RAP	Remedial Action Plan
RI	remedial investigation
SAP	Sampling and Analysis Plan
SU	standard units
TCA	trichloroethane
TCE	trichloroethene
TEAP	terminal electron-accepting process
TIC	tentatively identified compound
TOC	total organic carbon
VC	vinyl chloride
VOC	volatile organic compound
µg/L	micrograms per liter
2L Standards	North Carolina Administrative Code Title 15A, Subchapter 2L Groundwater Quality Standards

1.0 INTRODUCTION

This progress report presents results of the first 2015 semi-annual groundwater monitoring event conducted by ERM NC, Inc. (ERM) on behalf of Abbott Laboratories (Abbott) for the solvent release incident at the Former Abbott facility located at 16000 Joy Street-US 15/401 Bypass in Laurinburg, Scotland County, North Carolina (the "Site"). The Site is managed by the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management (DWM) Superfund Section, Inactive Hazardous Sites Branch (IHSB).

Abbott conducts the semi-annual groundwater monitoring program as part of an ongoing in-situ bioremediation remedy at the Site. The first 2015 semi-annual groundwater sampling event was conducted on April 13-16, 2015 in accordance with the current sampling and analysis plan (SAP) approved by the NCDENR. Concurrent with the April 2015 semi-annual groundwater monitoring program, ERM also conducted field sampling programs for a supplemental Remedial Investigation (RI) on behalf of Abbott. Results of the routine semi-annual groundwater monitoring for the 1st and 2nd quarters of 2015 are the primary focus of this progress report. However, the report also includes a limited summary of the supplemental RI groundwater sampling results where there was overlap of the two SAPs and field sampling programs. A separate supplemental RI summary report will be submitted to NCDENR by Abbott.

The April 2015 semi-annual groundwater monitoring event included the sampling and analysis of groundwater from 20 Site monitoring wells used to monitor the solvent plume. ERM followed the SAP described in the January 15, 2015 Progress Report (Section 5.2) and transmittal letter to NCDENR (ERM, 2015a) for the April 2015 event. This was generally the same sampling plan used during the April 2014 event (for VOCs and alkalinity), with exceptions made for the discretionary bio-geochemical analyses. An additional 5 wells (MW-18B, MW-20B, MW-20D, MW-21B, and FR-6D) that are not part of the routine April semi-annual sampling program were also sampled in April 2015 as part of the supplemental RI.

1.1 SITE DESCRIPTION AND BACKGROUND

The former Abbott facility is located on approximately 51 acres of land at the northeast intersection of U.S. Highway 401 and U.S. Highway 15-501 in Laurinburg, Scotland County, North Carolina (Figure 1-1). The site has historically used the physical mailing address of 16000 Joy Street, although Scotland County describes the property location as "16900 401 Bypass" in its deed and tax records. The current property infrastructure includes a main plant building, warehouse, several smaller support buildings and adjacent parking lots and service roads. The facility was constructed by Abbott on agricultural land in 1969 (Radian, 1993). Figure 1-2 shows a site plan with locations of existing monitoring wells, buildings, and other Site features.

From 1970 to June 2002, Abbott used the facility to manufacture medical devices for their Hospital Products Division. Medical devices manufactured at the facility included

polyvinyl chloride (PVC) tubing and adapters that were used for intravenous drug administration and health maintenance equipment. The manufacturing process included injection molding of PVC and other plastics, parts washing, parts assembly, packaging, and ethylene oxide sterilization. Chemicals used in the manufacturing process included cyclohexanone, methyl ethyl ketone (MEK); toluene; acetone; 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113); di(2-ethylhexyl) phthalate; xylene; and various chlorinated volatile organic compounds such as trichloroethene (TCE) and methylene chloride. As part of their facility operations, Abbott also operated a solvent evaporation pit at the Site from 1970 through 1976. Solvents, including TCE, were disposed of in the pit located north of the main plant building (Radian, 1993).

Abbott ceased manufacturing operations in June 2002 and donated the Site property to Scotland County that same year. Scotland County then sold the facility to Marketta, LLC. QualPak (a business division of GOJO, Inc.), was the most recent operator of the facility under the Marketta ownership. QualPak previously used the facility to manufacture, package, and store alcohol-based hand sanitizer products. In July 2010 Marketta obtained a Brownfields Agreement with the NCDENR for the Site property. The QualPak facility was then shut down in late 2011.

Marketta, LLC transferred ownership of the Site property to Connelly Springs Road, LLC on December 18, 2013. Subsequently, on July 25, 2014 the property was transferred from Connelly Springs Road, LLC to the current owner of the property, John & Jeff Schwarz, LLC. The main manufacturing plant building has remained vacant since late 2011 when QualPak ceased operations and shuttered the facility. However, the remote warehouses on the east side of the property have maintained a commercial lease tenant for several years.

1.2 HISTORICAL REMEDIAL INVESTIGATIONS (1990-2015)

Abbott notified the NCDENR-DWM Superfund Section of the solvent evaporation pit in 1989. Following this notification, Abbott entered into a regulatory Administrative Order and conducted initial site assessments and multiple RI phases from 1990 through April 2015. Work plans were developed and submitted to NCDENR and approved by the agency prior to conducting each phase of the RI and related sampling programs. These historical RI documents are on file with NCDENR and were summarized in the *Work Plan for Supplemental Remedial Investigation* (ERM, 2015b).

1.3 HISTORICAL REMEDIAL ACTIONS (1994-2010)

Abbott has developed several Remedial Action Plan (RAP) reports and addenda, and has implemented several phases of site cleanup strategies since 1994. These remedial actions have been documented in past reports submitted to the NCDENR. Multiple technologies have been applied to remediate Site soils and groundwater to date. Initial remediation technologies applied to soil and groundwater at the Site from 1994 to 2002 used physical groundwater recovery/hydraulic containment and in-situ volatilization methods.

Beginning in 2002, Abbott changed their remediation strategy for impacted groundwater from the solvent pit release and initiated an *in-situ* bioremediation program. Matrix Environmental Southeast, Inc. (Matrix) submitted a *Remedial Action Plan Amendment* (Matrix, 2002) report to NCDENR that proposed using Hydrogen Release Compound® (HRC®) as the organic substrate for anaerobic bioremediation via enhanced reductive dechlorination (ERD). Three phases of HRC® injections were conducted from November 2002 through September 2006. The bioremediation program was later incorporated into a monitored natural attenuation (MNA) component of the remediation plan as described in the *Remedial Action Plan Amendment 2: Solvent Release Remediation* (Phoenix, 2008) (RAP Amendment 2). The current, ongoing remediation strategy is a continuation of the combined bioremediation and MNA monitoring RAP programs that began in 2002.

Details of the historical remedial actions and their results prior to October 2010 were previously summarized in the *Work Plan for Supplemental Subsurface Investigation and Remedial Actions* (AECOM, 2009) and in the *Work Plan for Supplemental Remedial Investigation* (ERM, 2015b). These reports, as well as other historical documents, should be consulted for details of the past remediation activities at the Site.

In September 2010 AECOM submitted the *Preconstruction Report: Supplemental Organic Substrate Injections to Enhance Groundwater Bioremediation* (AECOM, 2010) to the NCDENR. The 2010 Preconstruction Report provided a detailed plan and design basis for additional electron donor (i.e., organic substrate) injections to continue the bioremediation enhancements, as allowed under the RAP Amendment 2 (Phoenix, 2008). Supplemental injections of the organic substrate Anaerobic Biochem (ABC®) occurred from October 15, 2010 to November 1, 2010 to enhance and accelerate the ongoing groundwater bioremediation program. Additionally, a bioaugmentation pilot study was initiated by performing limited injections of RTB-1, a proprietary culture of Dehalococcoides spp. (DHC) dechlorinating microbes, into the aquifer upgradient of the MW-102 well cluster.

The October to November 2010 ABC® electron donor injections were the last engineered remediation enhancements used at the Site. Performance monitoring of the ongoing bioremediation and MNA processes has continued since that time.

1.4 Historical Groundwater Monitoring Programs

Prior to the 2010 ABC® injections, two semi-annual groundwater monitoring events were performed each year. The 2010 Preconstruction Report (AECOM, 2010) presented a Performance Monitoring and Evaluation Plan that included a short-term monitoring plan and changes and updates to the Site-wide groundwater monitoring program. This revised groundwater monitoring plan, which was approved by NCDENR, superseded the prior monitoring plan from the RAP Amendment 2.

The revised groundwater monitoring plan in the 2010 Preconstruction Report specified continuing the semi-annual sampling and reporting schedule for one additional year, through the end of 2011. The plan proposed changes to the analytical parameters and/or sampling frequency for certain wells sampled during the semi-annual monitoring events (AECOM, 2010). The October 2010 groundwater sampling event was the first semi-annual sampling event to follow the revised groundwater monitoring plan, and it included the collection of baseline groundwater performance monitoring data prior to the ABC® injections.

The groundwater sampling program was modified again in 2012 as specified in the July 31, 2012 letter and Table A-1 of the 1st 2012 Progress Report (AECOM, 2012). With NCDENR's approval of the modified sampling plan, laboratory analysis of alkalinity, field analysis of ferrous iron and carbon dioxide, and free product gauging was suspended beginning with the November 2012 sampling event. Additionally, the 2012 modified sampling plan allowed future discretionary analysis of other bio-geochemical parameters such as metabolic acids, methane/ethane/ethane (MEE), and microbial speciation analyses. Alkalinity was also retained as a discretionary analysis.

The most recent modifications to the groundwater monitoring plan were described in the June 24, 2014 cover letter to NCDENR that accompanied the submittal of the 1st 2014 semi-annual progress report. Following the completion of each groundwater monitoring event, the monitoring plan is evaluated and, if needed, changes are proposed to NCDENR for the upcoming event(s). Currently, the monitored analytical parameters include VOCs, VOC tentatively identified compounds (TICs), total organic carbon (TOC), and chloride collected at specified wells and sampling events. TOC, MEE, and alkalinity were the only discretionary analyses performed during the April 2015 sampling event.

1.4.1 Current Groundwater Monitoring Program

Figure 1-2 presents a Site plan with the locations of the existing Abbott monitoring well network. To demonstrate the progress of historical and ongoing remediation the former waste pit solvent plume, groundwater sampling and analysis for VOCs is conducted at 24 of the 27 active Site solvent plume monitoring wells at least once per year. The three monitoring wells that are not sampled are currently used only for water level gauging. Table 1-1 lists the active Site solvent plume monitoring wells and summarizes their construction information. The fuel release monitoring well FR-6D was also gauged and added to Table 1-1 as part of the concurrent RI activities.

Table 1-2 summarizes the semi-annual groundwater monitoring program sampling and analysis plan that was followed for the April 2015 event. For reference, Table 1-2 also includes the additional wells and analyses that were concurrently performed in April 2015 for the supplemental RI sampling program.

The April 2015 sampling event represents the fourteenth semi-annual groundwater sampling event that has occurred since the submittal of the RAP Amendment 2

(Phoenix, 2008) and the tenth since submittal of the 2010 Preconstruction Report. The current April 2015 semi-annual sampling event represents 12.5 years of groundwater monitoring data since the in situ bioremediation remedy was first implemented at the Site. The current groundwater sampling event also represents the 4.5-year (Month 54) sampling event that followed the October 2010 ABC® injections.

2.0 GROUNDWATER SAMPLING METHODS

This section describes the sampling program and methods used during the April 2015 semi-annual groundwater monitoring event. The proposed sampling plan for the April 2015 event was presented to NCDENR in the *Progress Report for 3rd and 4th Quarters 2014* and its January 15, 2015 transmittal letter (ERM, 2015a). The plan proposed the same SAP for VOCs and alkalinity that was used for the April 2014 monitoring event, with discretionary analyses of TOC and MEE bio-geochemical parameters. One change for the April 2015 SAP was the use of passive diffusion bags (PDBs) for groundwater collection at four wells (MW-102C, MW-104C, MW-16D, and MW-19D).

A summary of the April 2015 semi-annual groundwater monitoring program is provided in Table 1-2 (Note: Table 1-2 also includes the additional wells and analyses that were part of the supplemental RI sampling program also conducted in April 2015). Groundwater monitoring results are discussed in Section 3.0.

2.1 GROUNDWATER MONITORING PROGRAM

The first 2015 (1st and 2nd Quarters 2015) semi-annual groundwater monitoring event was conducted on April 13-16, 2015 by ERM. Groundwater levels were gauged at each of the 27 active Site solvent plume wells on the first day of the monitoring event. Table 2-1 summarizes the depth to water measurements and groundwater elevations in Site monitoring wells, including the additional well (FR-6D) that were gauged as part of the concurrent RI sampling program.

Groundwater samples were collected at 24 of the 27 active solvent plume monitoring wells in April 2015. Additionally, 2 blind duplicate samples and 2 trip blank samples were submitted for laboratory analyses. Each of the groundwater samples (including the 2 duplicates) and the trip blanks was analyzed for VOCs by United States Environmental Protection Agency (EPA) Method 8260B. A select set of groundwater samples were also analyzed for VOC TICs by EPA Method 8260B and for alkalinity by Method SM 2320B, as done in the prior April 2014 sampling event. Analyses of TOC (EPA Method SM5310B) and MEE (Method RSK 175) were conducted on 7 and 4 groundwater samples, respectively, as summarized in Table 1-2.

Samples for VOC and VOC TIC analyses were sent to AbbVie (formerly Abbott Laboratories) Global Environment, Health, and Safety Laboratory (AbbVie), which is a North Carolina-certified analytical laboratory based in Abbott Park, Illinois. AbbVie subcontracted the laboratory analyses to TestAmerica Laboratories, Inc. (TestAmerica), which is also a North Carolina-certified analytical laboratory based in University Park, Illinois. TOC, alkalinity and MEE analyses were performed by Accutest Laboratories (Accutest), a North Carolina-certified analytical laboratory based in Orlando, Florida.

In addition to the standard semi-annual VOC analyses, the compound 1, 4-Dioxane was also analyzed in 8 groundwater samples (1 blind duplicate) collected from 7 wells in accordance with the RIWP. Although the 1, 4-Dioxane analyses in groundwater were

conducted to address an RI data gap, the samples were collected during the April 2015 routine semi-annual monitoring event. The 1, 4-Dioxane analyses were also conducted by the TestAmerica laboratory using Method 8260 SIM.

The field water quality indicator parameters of temperature, pH, specific conductance, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured during the purging process in each well sampled during the sampling events. Table 2-2 summarizes field water quality measurements from each sampling event that occurred during the past four years from October 2010 through the current April 2015 semi-annual sampling event. Although not tested during the April 2015 event, historical field measurements of ferrous iron and carbon dioxide concentrations (using a HACH® portable kit) are also included in Table 2-2.

Table 2-3 summarizes historical results for the geochemical parameters of TOC, alkalinity, sulfate, chloride, total iron, ferrous iron, total manganese, dissolved hydrogen, and MEE that were analyzed on select groundwater samples during the October 2010 to April 2015 time period. With the exception of TOC and chloride, other biogeochemical parameters are now analyzed by Abbott on a discretionary basis.

The field-generated sample collection records for the April 2015 sampling event are included in Appendix A. Laboratory analytical reports for the April 2015 sampling event are found in Appendix B.

2.2 SAMPLING PROCEDURES

Groundwater sampling procedures were performed in accordance with the EPA Region IV Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures protocols. These general protocols and the proposed sampling program specified in the *Progress Report for 3rd and 4th Quarters 2014* and its January 15, 2015 transmittal letter to NCDENR (ERM, 2015a) were followed.

Two types of groundwater sampling methods (PDBs and low-flow micro-purging) were used during the April 2015 event. PDBs were previously placed in four wells (MW-102C, MW-104C, MW-16D, and MW-19D) during the November 2014 sampling event and were sampled in April 2015 on a test basis. After the PDBs were retrieved, two of the PDB test wells (MW-102C and MW-104C) were also purged and sampled by low-flow micro-purge methods to compare VOC analytical results for the two sampling methods. Low-flow purging and sampling was also necessary at these two wells to collect the required water samples for bio-geochemical analysis and/or the supplemental RI analyses (see Table 1-2).

For the wells that were purged and sampled using low-flow techniques, a peristaltic pump and new polyethylene tubing were used to purge and sample each well. The wells were considered sufficiently purged when measurements of groundwater temperature, pH, specific conductance, DO, and ORP were stable. Field parameters

were considered stable if consecutive measurements were within a specified percentage of the previous well volume measurements.

Groundwater samples were generally collected in a sequence from locations with the lowest to highest VOC concentrations, as determined from past analytical data. A groundwater sample collection record was prepared for each well sampled. Sample containers were labeled in the field and a chain-of-custody form was completed. Samples were stored on ice in laboratory supplied coolers pending delivery to the labs.

2.2.1 Decontamination and Containment Procedures

Non-disposable sampling equipment was thoroughly decontaminated with a dilute, phosphate-free soap/water solution prior to fieldwork and between monitoring wells to prevent cross-contamination. Decontamination water and water generated during the purging of monitoring wells were temporarily contained in 5-gallon buckets and transferred to 55-gallon drums staged on-site, pending off-site transport and disposal at a permitted facility.

2.2.2 Quality Control/Quality Assurance Procedures

Field sampling activities were documented on individual groundwater sampling records and in a field log book. The samples collected on April 13-16, 2015 were appropriately labeled, stored in sample containers on ice, and delivered to AbbVie and Accutest in good condition and properly preserved. AbbVie subcontracted the laboratory analyses to TestAmerica. TestAmerica processed VOC samples and reported the results under lab job numbers 500-94804-1, 500-94855-1, 500-94856-1, and 500-94857-1. Accutest processed the remaining samples and reported the results under lab job number FA23627.

Blind field duplicates (042015-GW-DUP01 & 042015-GW-DUP02) were collected for primary sample MW-10B and MW-100B, respectively, and analyzed for VOCs by EPA Method 8260B for quality assurance and field precision. Two trip blanks were submitted with the coolers containing water samples for VOC analyses.

Water quality meters were calibrated in the field each day before collecting samples.

3.0 GROUNDWATER MONITORING RESULTS

This section presents results of the current (April 2015) groundwater monitoring event and a brief summary of long term analytical trends. During the April 2015 monitoring event, the discretionary bio-geochemical analyses were limited to TOC, alkalinity, and MEE. Historical data for these and other bio-geochemical parameters are also presented herein to illustrate bioremediation processes and trends.

3.1 GROUNDWATER ELEVATIONS AND FLOW

Water level measurements collected on April 13, 2015 are listed in Table 2-1. Groundwater potentiometric flow maps for the shallow and deep aquifer units are presented once per year in the combined 2nd semi-annual monitoring and annual remediation effectiveness report. Groundwater flow maps are not developed for the April semi-annual monitoring events and, as a result, are not included in this report.

Historical groundwater potentiometric maps for the shallow aquifer unit (i.e., the upper 30 feet of the water table aquifer) show a predominant flow direction toward the south-southeast during most gauging events. Groundwater in the deeper hydrostratigraphic aquifer unit consistently shows multi-directional flow directions toward the south, southeast, and southwest.

Overall the April 2015 groundwater elevations were slightly lower than those observed during the April 2014 sampling event and the average groundwater levels were approximately 4 to 5 feet higher than the November 2015 sampling event. Downward vertical gradients were present at the majority of the multilevel well clusters during the April 13, 2015 gauging event.

3.2 GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS

Groundwater samples were collected from 20 Site monitoring wells on April 13-16, 2015. Analytical VOC results for the April 2105 sampling event are summarized in Table 3-1. Laboratory analytical reports for the April 2015 sampling event are included as Appendix B.

Table 3-1 also includes historical VOC data since the October 2010 (pre-ABC® injection) baseline sampling event for comparison. These combined data sets represent 4.5 years of performance monitoring, from October 2010 through April 2015, inclusive of pre-injection and post-injection VOC results.

Groundwater analytical results for VOCs were compared to the current North Carolina Administrative Code Title 15A, Subchapter 2L Groundwater Quality Standards (2L Standards; revised effective April 1, 2013). As summarized in Table 3-1, during the April 2015 sampling event the following 10 VOCs were detected in groundwater above their respective 2L standard at one or more monitoring wells: perchloroethene (PCE); TCE; 1,1-dichloroethene (DCE); cis-1,2-DCE; vinyl chloride (VC); 1,1,1-TCA (TCA); 1,1-dichloroethane (DCA); 1,2-DCA; chloroformand toluene. The VOCs detected at

concentrations above their respective 2L Standard were found in the wells listed below (see Table 3-1 for concentrations):

- PCE: MW-101A, MW-101B and MW-102B
- TCE: MW-100B, MW-101A, MW-101B, MW-102C, MW-103B, MW-103C, MW-104B, and MW-104C
- 1,1-DCE: MW-100A, MW-100B, and MW-102C
- Cis-1,2-DCE: MW-100A, MW-100B, MW-101B, MW-102B, MW-102C, MW-103A, MW-103B, MW-103C, MW-104A and MW-19D
- VC: MW-100A, MW-100B, MW-102A, MW-102B, MW-103B, MW-103C, MW-104A, MW-104B, MW-104C, MW-10B, MW-10D, and MW-19D
- 1,1,1-TCA: MW-100A and MW-100B
- 1,1-DCA: MW-100A and MW-100B
- 1,2-DCA: MW-100A, MW-103B and MW-104A
- Chloroform: MW-100A and MW-100B
- Methylene Chloride: MW-102C
- Toluene: MW-100A, MW-100B and MW-102C

Other VOCs, including trans-1,2-DCE, acetone, benzene, chloroethane, ethylbenzene, methyl-tert butyl ether, xylene and Freon 113, were detected above the laboratory detection limits at one or more wells, but the concentrations were below their respective 2L Standards. The VOCs Freon 113, TCE, and cis-1,2-DCE were detected at off-site deep well MW-18D at concentrations below their 2L Standards.

Historical concentrations of VOCs in groundwater are tabulated in Appendix C.

3.2.1 Distribution of Trichloroethene and Daughter Products in Groundwater

TCE is the primary contaminant of concern (COC) for remediation in Site groundwater. This is based on its historically elevated concentrations, its widespread distribution and its relatively low 2L Standard compared to other groundwater COCs. During the April 2015 sampling event, TCE was detected at concentrations above its 2L Standard of 3.0 micrograms per liter (µg/L) in groundwater samples from 8 wells (Table 3-1).

Concentrations of TCE in groundwater collected from shallow "A" and "B" wells screened <30 feet bgs are shown on Figure 3-1 as a TCE isoconcentration plume map for April 2015. This map illustrates that the shallow TCE plume in groundwater currently extends approximately 400 feet south from the waste pit source area and is not found off-site at detectable concentrations in the shallow hydrostratigraphic zone.

TCE concentrations in groundwater samples collected from intermediate and deep wells (>30 feet bgs) during the April 2015 sampling event are shown on Figure 3-2. The TCE plume in deeper aquifer strata migrates generally toward the south away from the former disposal pit area, and then appears to turn toward the southwest near the southern Site property boundary. The anomalous shape of the deeper TCE plume has been previously documented and its potential causes attributed to lithology-controlled preferential flow paths and/or interpretations of the plume's lateral and vertical distribution that could be influenced by variations in the screened intervals of the existing deeper wells (AECOM, 2013; AECOM, 2014).

The TCE biodegradation daughter products cis-1,2-DCE and VC were also detected in groundwater samples above their respective 2L Standards. In April 2015, VC was detected above its 2L Standard in 12 wells and cis-1,2-DCE exceeded its 2L standard at 10 wells. The degradation compound 1,1-DCE was detected above the 2L Standard limit in groundwater at three wells. 1,1-DCE is formed by either halorespiration (biological dechlorination) of TCE or by abiotic degradation of TCA.

3.3 Trends for Volatile Organic Compounds

Appendix D presents concentration trend graphs for TCE, cis-1, 2-DCE and vinyl chloride in the source area wells from November 2002 through April 2015. Concentrations of TCE and its dechlorination daughter products have shown the largest changes in wells closest to the source area. The outer extent of the shallow TCE plume has not changed significantly in the past few years, indicating that the dissolved plume remains stable and is not expanding in the shallow aquifer units. TCE concentrations have been declining steadily in shallow groundwater at the northern source areas that underwent enhanced biodegradation treatment.

Concentrations of the daughter products cis-1,2-DCE and VC have fluctuated by well location, well depth, and seasonally. As previously documented, elevated reporting limits for trans-1,2-DCE and VC have prevented consistent detection of these two compounds, making it difficult to ascertain their potential trends in the source area wells (AECOM, 2014). A summary of the short-term and long-term cis-1,2-DCE, VC and other daughter VOC concentration trends and other observations that have resulted from the bioremediation program is provided below.

Concentrations of other VOCs in source area well clusters (MW-100, MW-101, MW-102, and MW-103) have varied by well location and depth since the ABC® injections were completed in November 2010. Of particular interest are the compounds 1,1,1-TCA, methylene chloride, toluene, and Freon 113. Historical trend plots from 2002 to present for TCE; cis-1,2-DCE; 1,1,1-TCA; Freon 113; and methylene chloride are provided in Appendix E. Historical trends of each of these VOCs were previously summarized in the 2nd 2014 Progress Report (ERM, 2015a).

3.3.1 1,4-Dioxane Results

The VOC 1,4-Dioxane was analyzed (by Method 8260 SIM) in groundwater samples collected from 6 monitoring wells in April 2015 as part of the supplemental RI sampling program. This was the first time that 1,4-Dioxane has been analyzed in Site groundwater. Although analysis for this VOC was not part of the SAP for the routine semi-annual monitoring event, the results are tabulated herein in Table 3-1 for informational purposes.

Laboratory analysis for 1,4-Dioxane showed one exceedance of its 2L standard (3 µg/L) at well MW-100B, with a concentration of 30 µg/L detected in the primary sample and 24 µg/L detected in the sample duplicate. 1,4-Dioxane was not detected in the remaining five wells that were sampled and analyzed for 1,4-Dioxane. A separate RI addendum report will be submitted to NCDENR with these results.

3.3.2 Comparison of PDB Versus Purge Sampling Methods

As described in Section 2.2 of this report, four test wells were equipped with PDBs for the April 2015 sampling event. Two of those wells (MW-102C and MW-104C) were also purged during the April 2015 event to compare the VOC results obtained between the PDB and micro-purge sampling methods. Table 3-1 summarizes the side-by-side comparison of the individual VOC analytical data.

Generally, the PDB sampling method produced comparable results based on historical data and the duplicate samples collected by low flow micro-purge sampling methods. One exception between the two sampling methods was identified between the TCE concentrations detected in MW-102C. The PDB result was 570 µg/L and the low flow purge result was 5,400 µg/L at this well. The laboratory (TestAmerica) evaluated the discrepancy and responded that the TCE results match well between the dilutions as well as with their screening data. No other discrepancies between the results from the PDB and low flow micro-purge methods were observed.

3.4 GROUNDWATER GEOCHEMISTRY

Field parameters, including temperature, DO, pH, conductivity, ORP, and turbidity were recorded during the April 2015 sampling event. Laboratory analyses of TOC and MEE were also performed on various groundwater samples. Field water quality parameters and groundwater geochemical data are presented in Table 2-2 and in Table 2-3, respectively.

Groundwater pH values ranged from 4.55 standard units (SU) in MW-20B to 7.13 SU in MW-101B during the April 2015 event. A pH value between 5.0 and 9.0 is generally most favorable for biologically enhanced reductive dechlorination by DHC bacteria. The pH values observed in Site groundwater appear to be on the low end of the optimal range for biological reductive dechlorination by DHC.

During April 2015 event, DO concentrations ranged from 0.18 milligrams per liter (mg/L) to 7.01. The target DO concentration for reductive dechlorination to occur is less than 1.0 mg/L (Air Force Center for Environmental Excellence [AFCEE], 2004). DO levels equal to or greater than 1.0 mg/L were measured in 12 downgradient monitoring wells outside of the source area: MW-103A, MW-103B, MW-103C, MW-104A, MW-105C, MW-10B, MW-10D, MW-16B, MW-18B, MW-18D, MW-20B and MW-20D. Groundwater DO remains suppressed within the source area. Elevated DO readings at MW-103A, MW-103B, MW-103C, MW-105C, MW-10B, MW-10D and MW-16B appear to be attributed to a malfunctioning DO probe. The recorded DO measurements at these wells during the April 2015 sampling event are significantly higher than the historical measurements.

In April 2015, groundwater ORP levels ranged from -223 millivolts (mV) at MW-103C to +336 mV at MW-105C. Oxidation-reduction reactions in groundwater containing organic compounds are typically biologically mediated. Optimal ORP conditions for promotion of anaerobic reductive dechlorination are -200 millivolts (mV) or less, although biodegradation can occur along multiple pathways at higher ORP values (AFCEE, 2004). Ten monitoring wells (MW-100A, MW-100B, MW-101A, MW-101B, MW-102A, MW-102B, MW-102C, MW-103A, MW-103B, and MW-103C) had negative groundwater ORP values.

Total organic carbon is an indicator of the natural organic carbon present in the aquifer that is available as an electron donor substrate for reductive dechlorination reactions. Concentrations of TOC greater than 20 mg/L are generally necessary to sustain biological metabolism. Low TOC levels (less than 20 mg/L) combined with elevated levels of VOCs and alternate electron acceptors indicate that additional carbon substrate may be required to sustain biodegradation. As of April 2015, TOC concentrations remained above 20 mg/L in three source area monitoring wells. The greatest current concentrations of TOC (up to 424 mg/L) occur in the two source area wells MW-100A and MW-100B.

Methane, ethane and ethene concentrations have returned to near or below pre-ABC® injection levels in the wells sampled and analyzed for MEE during the April 2015 monitoring event (MW-100B, MW-101B, MW-102B and MW-103B).

Alkalinity concentrations remain elevated at five of the six monitoring wells sampled and analyzed (MW-100B, MW-101B, MW-102B, MW-103B and MW-103C). Alkalinity at MW-102C has returned to near pre-ABC® injection levels.

4.0 REFERENCES

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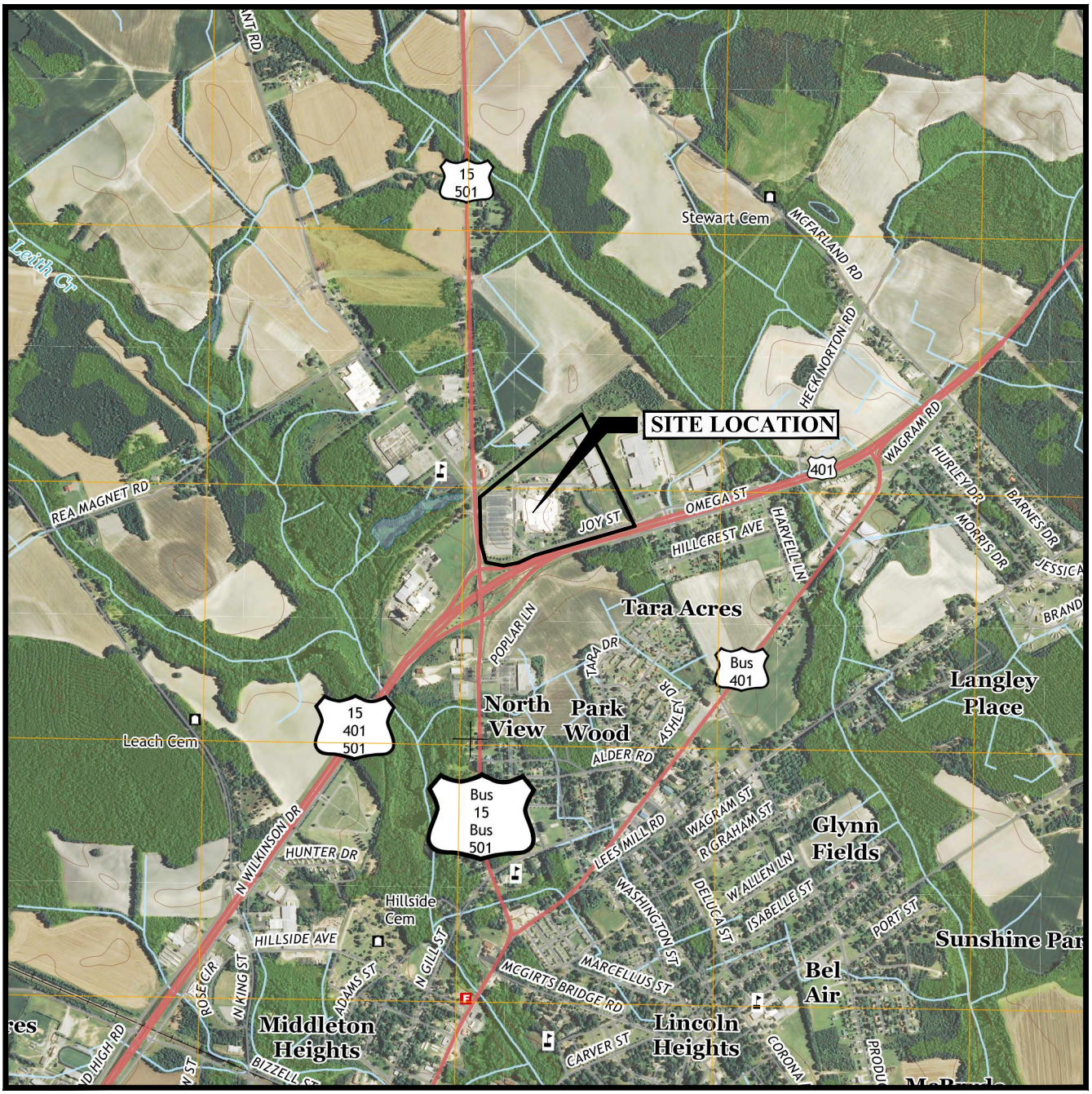
Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: LAURINBURG, NC 2013

SCALE 1:24000

1 1/2 0 1 MILE

NORTH CAROLINA

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

N

CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

NATIONAL GEODETIC VERTICAL DATUM OF 1988

ABF 2015-05-07 2015_Abbott_Labs_AprilRpt.dwg

ERM

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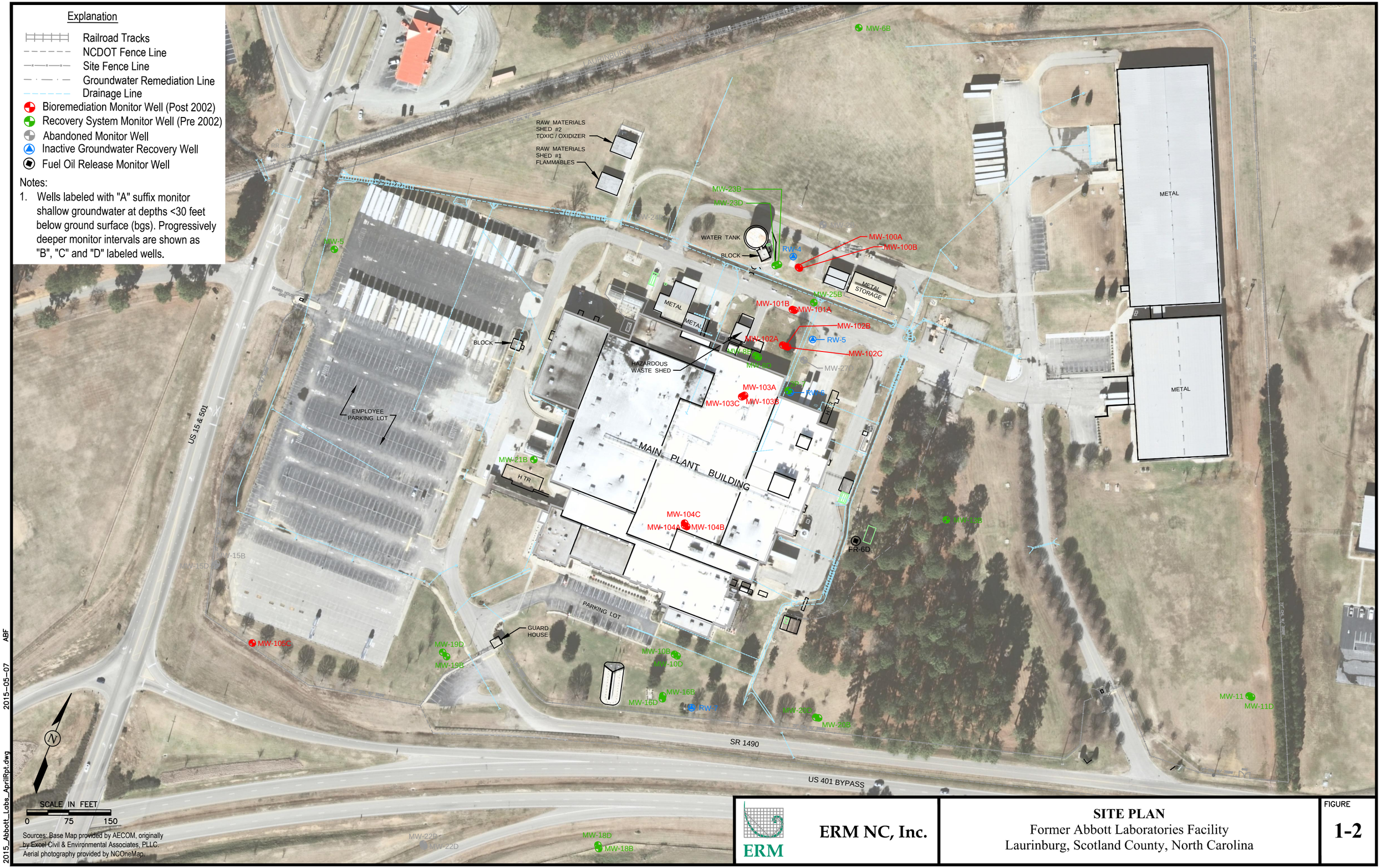
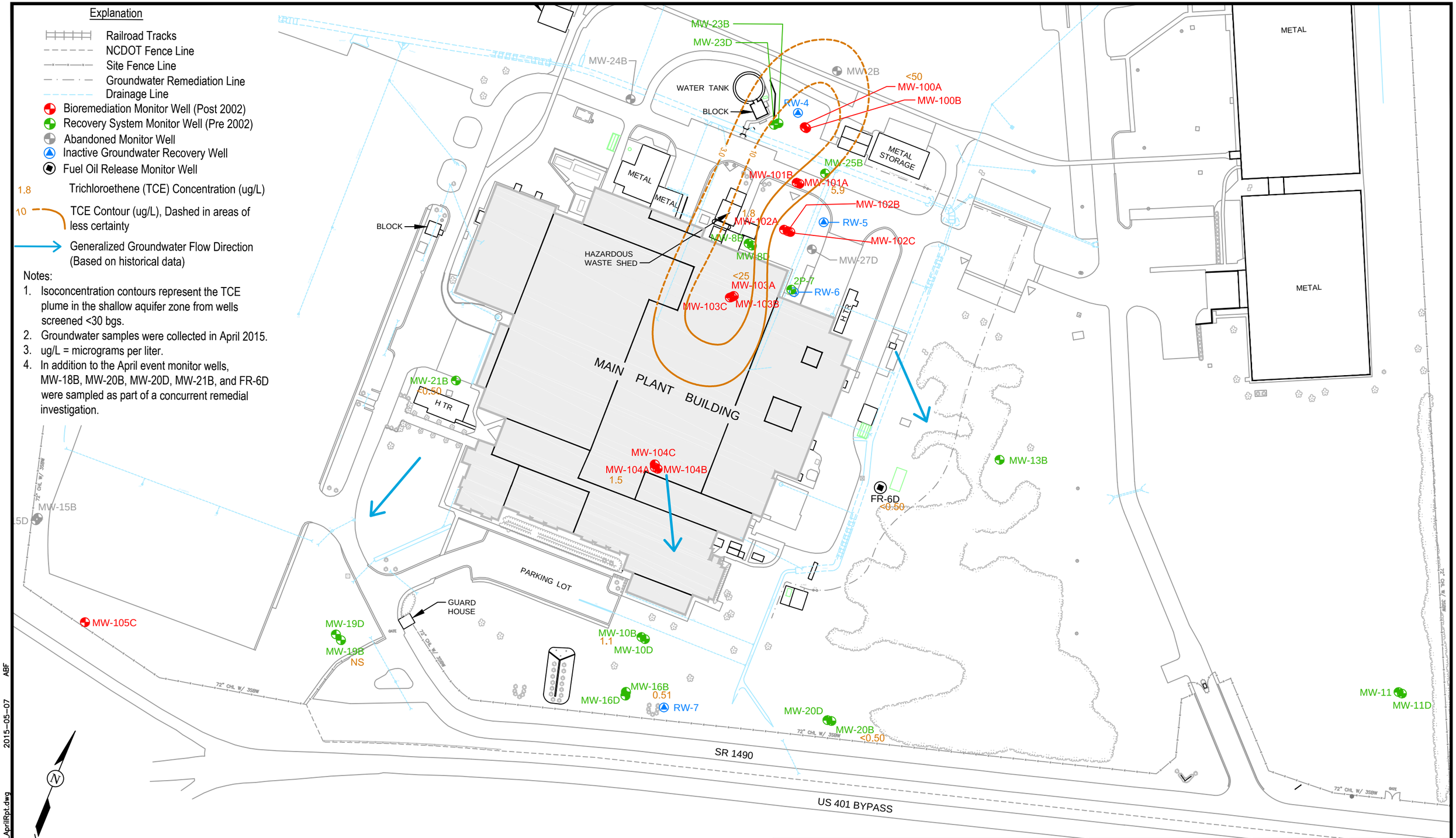
SITE LOCATION MAP
Former Abbott Laboratories Facility
Laurinburg, Scotland County, North Carolina

FIGURE
1-1


Explanation
Railroad Tracks
NCDOT Fence Line
Site Fence Line
Groundwater Remediation Line
Drainage Line
Bioremediation Monitor Well (Post 2002)
Recovery System Monitor Well (Pre 2002)
Abandoned Monitor Well
Inactive Groundwater Recovery Well
Fuel Oil Release Monitor Well
Notes:
1. Wells labeled with "A" suffix monitor shallow groundwater at depths <30 feet below ground surface (bgs). Progressively deeper monitor intervals are shown as "B", "C" and "D" labeled wells.
RAW MATERIALS SHED #2 TOXIC / OXIDIZER
RAW MATERIALS SHED #1 FLAMMABLES
WATER TANK
BLOCK
METAL STORAGE
METAL
HAZARDOUS WASTE SHED
MAIN PLANT BUILDING
EMPLOYEE PARKING LOT
PARKING LOT
GUARD HOUSE
US 15 & 501
SR 1490
US 401 BYPASS
MW-6B
MW-23B
MW-23D
MW-100A
MW-100B
RW-4
MW-25B
MW-101B
MW-101A
MW-102B
MW-102A
RW-5
MW-102C
MW-103A
MW-103C
MW-103B
RW-6
MW-21B
MW-104C
MW-104A
MW-104B
FR-6D
MW-5
MW-105C
MW-19D
MW-19B
MW-10B
MW-10D
MW-16B
MW-16D
RW-7
MW-20D
MW-20B
MW-11
MW-11D
MW-18D
MW-18B
SCALE IN FEET
0 75 150
Sources: Base Map provided by AECOM, originally by Excel Civil & Environmental Associates, PLLC. Aerial photography provided by NCOneMap.
ERM
ERM NC, Inc.
SITE PLAN
Former Abbott Laboratories Facility
Laurinburg, Scotland County, North Carolina
FIGURE
1-2
2015_Abbott_Labs_AprilRpt.dwg
2015-05-07
ABF



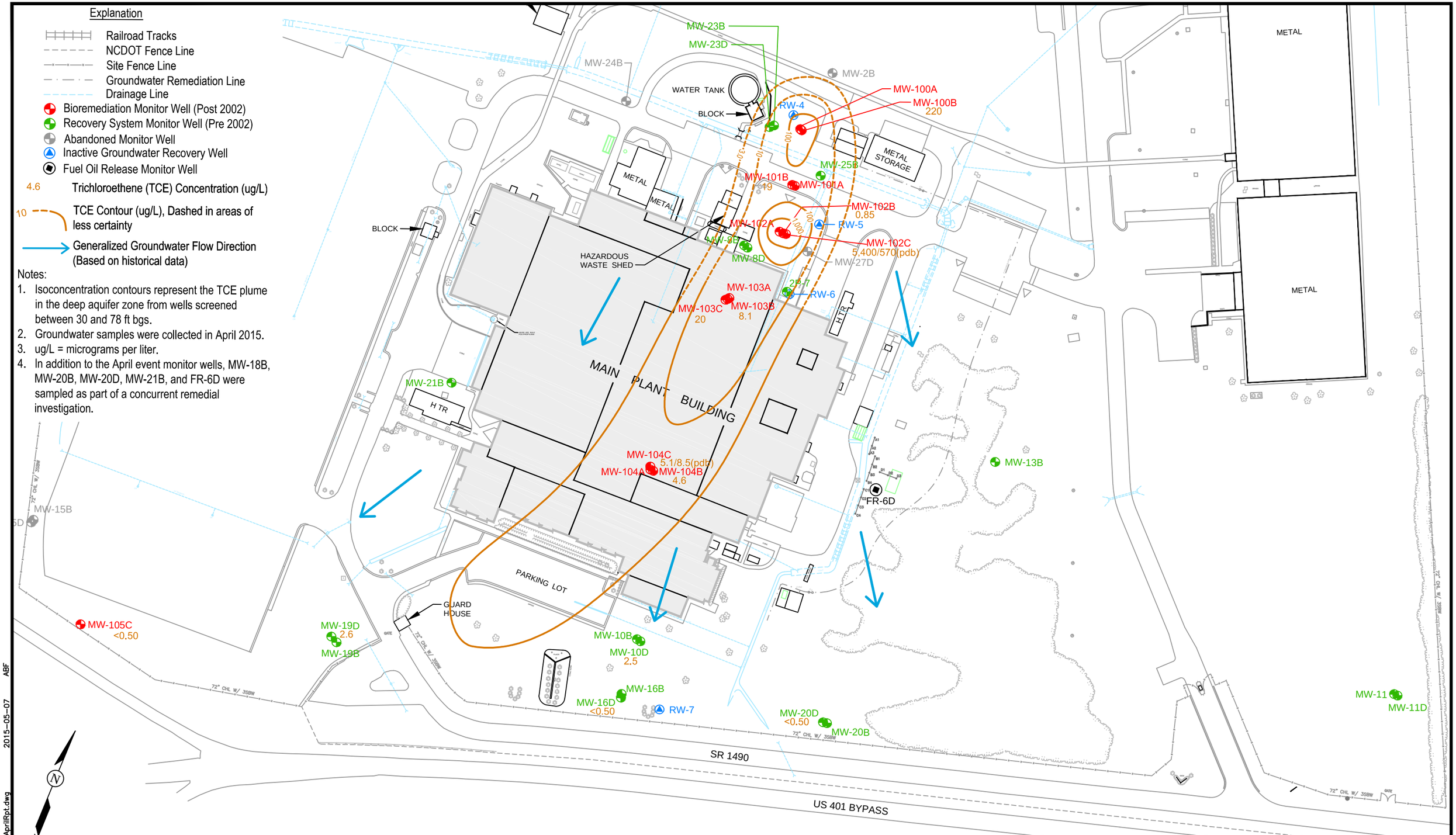
Sources: Base Map provided by AECOM, originally by Excel Civil & Environmental Associates, PLLC. Aerial photography provided by NCOneMap.

ERM NC, Inc.

TCE IN SHALLOW GROUNDWATER
APRIL 2015
Former Abbott Laboratories Facility
Laurinburg, Scotland County, North Carolina

FIGURE
3-1

2015_Abbott_Labs_AprilRpt.dwg 2015-05-07 ABF



ERM NC, Inc.

TCE IN DEEP GROUNDWATER
APRIL 2015
Former Abbott Laboratories Facility
Laurinburg, Scotland County, North Carolina

FIGURE
3-2

2015_Abbott_Labs_AprilRpt.dwg 2015-05-07 ABF

Tables

Table 1-1: Monitor Well Construction Details

Well Number*	Date Installed	Well Materials	Top of Casing MP Elevation (ft, msl)	Screened Interval (ft, bgs)	Total Well Depth (ft, bgs)	Total Well Depth (ft, msl)
MW-100A	10/8/2002	2 in Sch 40 PVC	228.86	20 - 30	30.00	198.86
MW-100B	10/7/2002	2 in Sch 40 PVC	228.92	35 - 45	45.00	183.92
MW-101A	10/11/2002	2 in Sch 40 PVC	228.18	20 - 30	30.00	198.18
MW-101B	10/11/2002	2 in Sch 40 PVC	228.17	35 - 45	45.00	183.17
MW-102A	10/11/2002	2 in Sch 40 PVC	229.56	20 - 30	30.00	199.56
MW-102B	10/10/2002	2 in Sch 40 PVC	229.47	35 - 45	45.00	184.47
MW-102C	10/10/2002	2 in Sch 40 PVC	229.54	55 - 65	65.00	164.54
MW-103A	10/9/2002	2 in Sch 40 PVC	230.58	20 - 30	30.00	200.58
MW-103B	10/8/2002	2 in Sch 40 PVC	230.58	35 - 45	45.00	185.58
MW-103C	10/9/2002	2 in Sch 40 PVC	230.60	55 - 65	65.00	165.60
MW-104A	6/5/2004	2 in Sch 40 PVC	230.58	2 - 12	12.00	218.58
MW-104B	6/5/2004	2 in Sch 40 PVC	230.59	35 - 45	45.00	185.59
MW-104C	6/5/2004	2 in Sch 40 PVC	230.56	63.5 - 73.5	73.50	157.06
MW-105C	2/9/2009	2 in Sch 40 PVC	233.25	54 - 64	64.00	169.25
MW-6B	7/25/1990	2 in Sch 40 PVC	230.30	14 - 19	19.00	211.30
MW-10B	7/24/1990	2 in Sch 40 PVC	229.10	16.5 - 26.5	26.50	202.60
MW-10D	1/17/1996	2 in Sch 40 PVC	228.70	30 - 40	40.00	188.70
MW-13B	7/18/1991	2 in Sch 40 PVC	230.30	9.3 - 18	18.00	212.30
MW-16B	1/17/1991	2 in Sch 40 PVC	227.90	15.25 - 24.25	24.25	203.65
MW-16D	1/18/1991	2 in Sch 40 PVC	228.90	62.5 - 71.5	71.50	157.40
MW-18B	2/5/1992	2 in Sch 40 PVC	228.70	5.5 - 14.5	14.50	214.20
MW-18D	2/7/1992	2 in Sch 40 PVC	228.70	48.1 - 57.1	57.10	171.60
MW-19B	4/24/1992	2 in Sch 40 PVC	228.70	15 - 25	25.00	203.70
MW-19D	4/27/1992	2 in Sch 40 PVC	228.70	63.8 - 73.8	73.80	154.90
MW-20B	4/28/1992	2 in Sch 40 PVC	227.90	17 - 27	27.00	200.90
MW-20D	4/27/1992	2 in Sch 40 PVC	228.10	68 - 78	78.00	150.10
MW-21B[1]	1996	2 in Sch 40 PVC	227.00	15 - 25	25.00	202.00
FR-6D	5/1/2000	2 in Sch 40 PVC	230.62	14.5 - 19.5	19.50	209.12

Notes:
*Only existing wells are listed in this table. Previously abandoned site wells are excluded.
[1]Well construction logs are not available for MW-21B. Screened intervals are estimates.
ft = feet
bgs = below ground surface
msl = mean sea level
PVC=Polyvinyl chloride
MP = monitoring point

Table 1-2: Summary of Groundwater Monitoring Program: April 2015

Well No.	Fixed-Base Laboratory Analyses[1]					Field Measurements	
	VOCs (Method 8260B)	VOCs + TICs (Method 8260B)	Total Organic Carbon (SM-5310B)	Alkalinity (SM-2320B)	Methane/ Ethane/ Ethene (RSK-175)	Water Quality Indicators[2]	Water Level
Number of Samples	**25**	**11**	**7**	**6**	**4**	**25**	**28**
MW-100A	X		X			X	X
MW-100B	X		X	X	X	X	X
MW-101A	X		X			X	X
MW-101B	X		X	X	X	X	X
MW-102A	X		X			X	X
MW-102B	X		X	X	X	X	X
MW-102C	X		X	X		X	X
MW-103A	X					X	X
MW-103B	X			X	X	X	X
MW-103C	X			X		X	X
MW-104A	X					X	X
MW-104B	X	X				X	X
MW-104C	X	X				X	X
MW-105C	X					X	X
MW-6B							X
MW-10B	X					X	X
MW-10D	X					X	X
MW-13B							X
MW-16B	X	X				X	X
MW-16D	X	X				X	X
MW-18B[3]	X	X				X	X
MW-18D	X	X				X	X
MW-19B							X
MW-19D	X	X				X	X
MW-20B[3]	X	X				X	X
MW-20D[3]	X	X				X	X
MW-21B[3]	X	X				X	X
FR-6D[3]	X	X				X	X

Notes:

[1] Fixed-base laboratories include Accutest Laboratories and AbbVie EHS Laboratory (formerly Abbott EHS Laboratory)

[2] Water quality indicators include pH, temperature, dissolved oxygen, oxidation-reduction potential, turbidity, and specific conductance

[3] MW-18B, MW-20B, MW-20D, MW-21B, and FR-6D were monitored as part of a concurrent remedial investigation.

VOCs = volatile organic compounds

Table 2-1: Groundwater Level Gauging and Elevation Data: April 2015

Well Identication	TOC Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-100A	228.86	4.12	224.74
MW-100B	228.92	5.65	223.27
MW-101A	228.18	4.71	223.47
MW-101B	228.17	5.39	222.78
MW-102A	229.56	5.51	224.05
MW-102B	229.47	6.95	222.52
MW-102C	229.54	7.39	222.15
MW-103A	230.58	6.01	224.57
MW-103B	230.58	7.59	222.99
MW-103C	230.60	8.32	222.28
MW-104A	230.58	6.11	224.47
MW-104B	230.59	7.08	223.51
MW-104C	230.56	5.28	225.28
MW-105C	233.25	12.20	221.05
MW-6B	230.30	4.71	225.59
MW-10B	229.10	4.96	224.14
MW-10D	228.70	6.70	222.00
MW-13B	230.30	5.59	224.71
MW-16B	227.90	4.69	223.21
MW-16D	228.90	6.83	222.07
MW-18B	228.70	6.43	222.27
MW-18D	228.70	7.39	221.31
MW-19B	228.70	4.31	224.39
MW-19D	228.70	7.89	220.81
MW-20B	227.90	3.79	224.11
MW-20D	228.10	6.48	221.62
MW-21B	227.00	2.75	224.25
FR-6D	230.62	6.10	224.52

Notes:

Water levels were measured on April 13, 2015
TOC: Top of Casing
ft: Feet
ft btoc: feet below the top of casing
msl: mean sea level
NM - not measured

Table 2-2: Field Water Quality Measurements (2010-2015)

Field Parameter		Temperature	pH	Specific Conductivity	Dissolved Oxygen	ORP	Turbidity	*Ferrous Iron	*Carbon Dioxide
Sample ID	Date	°C	SU	µS/cm	mg/L	mV	NTU	mg/L	mg/L
MW-100A	10/12/10	23.25	5.60	910	0.24	-60.2	12.4	3.3	> 500
	12/02/10	19.88	5.16	1009	0.12	-134.2	NM	NM	NM
	01/25/11	16.57	5.44	899	0.21	-69.3	9.3	NM	435
	04/21/11	17.95	5.42	916	0.19	-12.9	9.8	NM	> 500
	08/17/11	23.89	5.50	879	0.55	21.2	NM	3.2	> 500
	10/05/11	22.77	5.44	834	0.14	10.7	171	4	> 500
	05/17/12	21.78	5.91	862	0.12	-72.1	6.61	NM	> 100
	11/07/12	21.43	5.39	851	0.3	-48.8	1.04	NM	NM
	05/07/13	18.59	4.93	923	0.35	-32.7	47.2	NM	NM
	10/23/13	20.30	5.67	930	0.31	-33.7	6.78	NM	NM
	04/29/14	16.70	5.55	824	0.22	-20.5	58.4	NM	NM
	11/12/14	23.72	5.36	809	0.23	-29.1	1.83	NM	NM
	04/15/15	16.08	5.68	850	0.38	-168	0	NM	NM
MW-100B	10/13/10	22.54	5.55	945	0.28	-79.2	8.55	25.12	> 500
	12/02/10	20.05	5.19	1019	0.42	-30	NM	NM	NM
	01/25/11	17.20	5.28	921	0.19	-31.7	8.9	NM	400
	04/21/11	18.75	5.24	1030	0.67	-59.8	7.77	NM	> 500
	08/17/11	24.32	5.51	1132	0.31	16.9	NM	4.2	> 500
	10/05/11	22.64	5.41	1099	0.11	-5.2	8.68	4.6	> 500
	05/17/12	22.75	5.66	1074	0.35	-0.3	9.06	NM	> 100
	11/07/12	20.04	5.45	1001	0.19	-55.5	3.1	NM	NM
	05/07/13	19.03	5.43	965	0.44	39.2	5.43	NM	> 350
	10/23/13	19.90	5.51	1036	0.49	-27.5	2.83	NM	NM
	04/29/14	17.90	5.44	925	0.16	-19.4	22.9	NM	NM
	11/12/14	23.86	5.21	951	0.29	-46.1	2.5	NM	NM
	04/15/15	15.68	5.62	1060	0.18	-144	3.9	NM	NM
MW-101A	10/13/10	24.90	5.84	166	NM**	-0.8	4.99	8.7	165
	12/02/10	19.79	5.74	256	0.5	-58.9	NM	NM	NM
	01/25/11	16.50	6.06	189	0.36	-91.4	60	NM	95
	04/19/11	20.63	6.33	114	0.13	-59.7	12.1	NM	55
	08/16/11	24.47	5.77	105	0.46	27.1	NM	3.2	95
	10/05/11	23.72	5.88	109	0.19	13.3	20.1	NM	NM
	05/17/12	21.35	5.76	98	0.17	-24.7	22.2	NM	> 100
	11/07/12	22.01	5.00	53	0.26	81.9	3.9	NM	NM
	05/08/13	19.83	5.18	73	0.27	194.8	5.41	NM	NM
	10/23/13	22.30	4.94	48.2	0.4	138.4	5.4	NM	NM
	04/29/14	19.20	5.76	108.3	0.14	16.7	6.93	NM	NM
	11/12/14	23.83	4.18	43	0.66	81.5	3.07	NM	NM
	04/15/15	17.71	5.17	58	0.69	-89	1.6	NM	NM
MW-101B	10/13/10	23.54	4.81	222	0.44	30.9	5.21	7.75	125
	12/02/10	19.57	4.95	239	0.27	-114.5	NM	NM	NM
	01/25/11	17.78	6.49	82	0.29	-47.9	13	NM	30
	04/19/11	21.88	6.08	220	0.28	-62.3	31.5	NM	175
	08/16/11	25.91	4.82	379	0.24	92.5	NM	3.2	395
	10/05/11	24.85	6.21	119	0.25	-43.2	3.13	NM	NM
	05/17/12	21.78	5.64	305	0.16	-47.9	14	NM	> 100
	11/07/12	20.85	5.39	222	0.21	-39.5	8.1	NM	NM
	05/08/13	20.30	4.08	221	0.28	-27.5	7.25	NM	215
	10/23/13	22.20	6.07	238	0.18	-60.5	3.02	NM	NM
	04/29/14	20.50	6.03	209	0.16	-59	11.8	NM	NM
	11/12/14	23.27	6.38	87	2.25	116.6	0.85	NM	NM
	04/14/15	21.82	7.13	114	0.44	-48	0	NM	NM

Table 2-2: Field Water Quality Measurements (2010-2015)

Field Parameter		Temperature	pH	Specific Conductivity	Dissolved Oxygen	ORP	Turbidity	*Ferrous Iron	*Carbon Dioxide
Sample ID	Date	°C	SU	µS/cm	mg/L	mV	NTU	mg/L	mg/L
MW-102A	10/13/10	21.61	3.82	130	0.38	163	9.04	0.75	60
	12/02/10	17.79	4.34	122	0.79	-103.5		NM	NM
	01/25/11	15.85	4.73	97	0.41	-26.5	12	NM	60
	04/20/11	18.60	5.15	91	0.18	30	9.79	NM	150
	08/16/11	21.92	5.09	81	0.63	62	NM	2.6	125
	10/05/11	20.67	4.99	82	0.4	49.5	2.67	3.2	175
	05/17/12	18.86	5.26	83	0.47	11.1	13.6	NM	> 100
	11/07/12	19.93	5.03	76	0.37	-15.9	1.25	NM	NM
	05/08/13	18.34	3.96	84	0.43	-0.2	3.98	NM	NM
	10/23/13	21.30	6.19	80	0.3	67.6	7.7	NM	NM
	04/29/14	19.20	5.08	73	0.14	39.5	7.76	NM	NM
	11/12/14	20.55	4.90	64	0.43	33.1	5.46	NM	NM
	04/14/15	19.75	5.11	85	0.83	-157	0.8	NM	NM
MW-102B	10/13/10	20.26	5.43	125	0.45	-18.2	9.4	4.89	95
	12/02/10	18.35	5.09	342	0.44	11.6		NM	NM
	01/25/11	16.75	5.29	312	0.27	-8.4	10	NM	200
	04/20/11	19.72	5.61	331	0.24	-15.9	13.4	NM	125
	08/16/11	22.18	5.73	275	0.51	-11.5	NM	2.8	250
	10/05/11	19.66	5.80	242	0.43	-28	0.05	5.4	200
	05/17/12	19.83	6.00	254	0.41	-1.8	0.81	NM	> 100
	11/07/12	19.09	5.72	224	0.27	-81.6	6.27	NM	NM
	05/08/13	19.19	5.68	223	0.19	41.7	50.6	NM	235
	10/23/13	20.30	6.13	82	0.14	21.3	5.53	NM	NM
	04/29/14	18.90	5.98	193	0.13	-74.6	2.93	NM	NM
	11/12/14	19.49	5.64	163	0.33	-42.6	3.96	NM	NM
	04/14/15	20.68	6.17	199	0.74	-199	0	NM	NM
MW-102C	10/13/10	20.11	4.86	240	36**	-6.9	5.54	8.76	110
	12/02/10	17.83	4.38	165	0.31	-101.5		NM	NM
	01/25/11	17.05	4.93	263	0.14	45.4	45	NM	235
	04/20/11	19.53	5.08	306	0.25	27.7	9.5	NM	85
	08/16/11	22.54	5.20	331	0.25	50.7	NM	4.4	375
	10/05/11	18.61	4.80	339	0.17	53.7	766	2.5	450
	05/17/12	19.87	5.40	264	0.36	34.4	2.5	NM	> 100
	11/07/12	19.22	4.98	270	0.27	27.4	1.99	NM	NM
	05/08/13	19.33	4.85	383	0.27	187.8	12.9	NM	275
	10/23/13	20.10	5.30	490	0.15	19.2	5.63	NM	NM
	04/29/14	19.80	5.14	298	0.11	35.8	9.72	NM	NM
	11/12/14	18.05	4.30	242	0.38	44.8	2.12	NM	NM
	04/14/15	19.84	5.06	426	0.45	-118	68.7	NM	NM
MW-103A	10/12/10	21.64	4.54	92	0.44	214.6	9.2	NM	NM
	12/02/10	NM	NM	NM	NM	NM	NM	NM	NM
	01/25/11	21.46	6.34	217	0.26	-57.6	8.8	NM	NM
	04/20/11	21.76	5.17	103	0.13	148.9	7.67	NM	NM
	08/15/11	21.60	7.53	226	0.6	-15.8	NM	2.6	135
	10/04/11	21.68	5.20	97	0.22	67.8	18.1	NM	NM
	05/16/12	21.61	6.29	181	0.14	-27	41.6	NM	> 100
	11/07/12	21.60	5.72	120	0.19	71.9	53.4	NM	NM
	05/07/13	20.89	5.95	188	0.56	65.9	2.11	NM	150
	10/22/13	21.70	6.04	183.5	0.4	-14.9	3.56	NM	NM
	04/29/14	19.70	5.78	163.2	0.22	79.1	24.2	NM	NM
	11/13/14	20.64	5.12	97	0.35	107.2	4.69	NM	NM
	04/14/15	18.61	6.02	108	6.88**	-53	0.6	NM	NM

Table 2-2: Field Water Quality Measurements (2010-2015)

Field Parameter		Temperature	pH	Specific Conductivity	Dissolved Oxygen	ORP	Turbidity	*Ferrous Iron	*Carbon Dioxide
Sample ID	Date	°C	SU	µS/cm	mg/L	mV	NTU	mg/L	mg/L
MW-103B	10/12/10	21.26	5.97	230	0.31	-32	4.42	NM	NM
	12/02/10	21.44	6.40	212	0.71	-52.9	NM	NM	NM
	01/25/11	21.25	6.48	213	0.38	-80.4	11	NM	NM
	04/20/11	21.44	6.23	210	0.17	-37.1	0.19	NM	NM
	08/15/11	21.48	8.04	226	0.47	-54.6	NM	4.2	115
	10/04/11	21.49	6.45	203	0.24	-80.9	7.24	NM	NM
	05/17/12	21.52	6.36	220	0.26	-48.8	2.69	NM	> 100
	11/07/12	20.97	6.48	257	0.24	-106.1	6.39	NM	NM
	05/07/13	20.90	6.27	200	0.4	55.1	1.73	NM	25
	10/22/13	21.90	6.39	199.8	0.24	-86.7	0.95	NM	NM
	04/29/14	19.90	6.31	221.1	0.22	-64.2	2.59	NM	NM
	11/13/14	20.37	6.23	216	0.46	-80.6	0.45	NM	NM
	04/14/15	19.05	6.50	148	7.01**	-148	2.1	NM	NM
MW-103C	10/12/10	21.49	5.77	187	0.67	-17.5	10.3	NM	NM
	12/02/10	21.18	6.26	174	0.37	-61.4	NM	NM	NM
	01/25/11	21.04	5.83	128	0.3	-26.5	5.4	NM	NM
	04/20/11	21.35	5.90	157	0.29	20.1	< 2	NM	NM
	08/15/11	21.55	7.71	139	0.56	23.5	NM	2.25	140
	10/04/11	21.45	5.89	184	0.2	-2.8	4.38	NM	NM
	05/16/12	21.09	5.34	101	0.33	-17.1	1.35	NM	> 100
	11/07/12	21.11	6.08	177	0.26	-90.7	20.2	NM	NM
	05/08/13	20.45	5.51	128	0.33	-29.8	22.9	NM	150
	10/22/13	21.00	5.38	110.3	0.46	5.5	2.04	NM	NM
	04/29/14	19.90	5.26	136.6	0.29	13.8	2.41	NM	NM
	11/13/14	20.21	5.78	134	0.27	-31.9	0.31	NM	NM
	04/14/15	20.90	6.18	116	6.93**	-223	0.7	NM	NM
MW-104A	10/12/10	22.12	5.45	157	NM **	24.2	3.55	NM	NM
	04/20/11	21.88	5.32	135	0.88	142.4	6.5	NM	NM
	10/04/11	21.90	5.42	150	1.19	52.4	37.9	NM	NM
	05/16/12	22.00	5.21	124	0.49	-14.4	4.26	NM	NM
	11/07/12	22.57	5.47	110	0.59	65.9	7.83	NM	NM
	05/08/13	21.50	5.33	118	1.22	107.3	2.12	NM	NM
	10/22/13	23.30	5.33	114	0.41	108.9	9.67	NM	NM
	04/28/14	19.80	5.16	139.9	0.79	237.1	3.76	NM	NM
	11/13/14	21.16	4.71	98	0.63	5.2	4.7	NM	NM
	04/14/15	20.56	5.12	114	1.46	114	0.5	NM	NM
MW-104B	10/12/10	21.12	4.65	85	NM **	325.3	1.46	NM	NM
	04/20/11	21.44	4.83	97	0.24	259.2	0.9	NM	NM
	10/04/11	21.69	4.69	109	0.38	102.6	0.49	0	75
	05/16/12	21.65	4.90	91	0.17	10.5	0.97	NM	> 100
	11/07/12	21.66	5.00	97	0.37	180.5	2.07	NM	NM
	05/08/13	20.62	4.83	93	0.47	141.5	0.47	NM	NM
	10/22/13	22.20	4.92	86	0.14	335.6	3.87	NM	NM
	04/28/14	20.80	4.75	97.8	0.16	305	0.56	NM	NM
	11/13/14	21.03	4.30	73	0.75	117.4	2.46	NM	NM
	04/14/15	19.08	4.79	77	0.68	149	0	NM	NM
MW-104C	10/12/10	20.99	5.05	95	NM **	227.1	60.8	NM	NM
	04/20/11	21.62	5.18	97	0.22	224.2	39.4	NM	NM
	10/04/11	21.68	5.10	104	0.34	89.3	19.1	0	40
	05/16/12	21.80	5.09	105	0.46	-15.4	13.1	NM	> 100
	11/07/12	21.37	5.27	104	0.36	189.1	36.1	NM	NM
	05/08/12	21.05	5.14	76	0.32	17.9	0.54	NM	NM

Table 2-2: Field Water Quality Measurements (2010-2015)

Field Parameter		Temperature	pH	Specific Conductivity	Dissolved Oxygen	ORP	Turbidity	*Ferrous Iron	*Carbon Dioxide
Sample ID	Date	°C	SU	µS/cm	mg/L	mV	NTU	mg/L	mg/L
MW-104C	10/22/13	21.80	5.22	99	0.14	319.7	7.53	NM	NM
	04/28/14	20.80	5.26	92	0.14	205.8	2.17	NM	NM
	11/13/14	21.05	4.64	84	0.9	135.2	2.07	NM	NM
	04/14/15	18.22	5.48	103	0.65	116	1.9	NM	NM
MW-105C	10/12/10	22.10	5.20	101	0.76	129.2	6.18	NM	NM
	04/19/11	20.36	5.10	72	2.15	206.5	1.5	NM	NM
	10/04/11	22.25	4.71	72	0.87	102.6	1.17	NM	NM
	05/16/12	21.66	4.89	73	1.28	32.8	3.26	NM	NM
	11/06/12	18.04	4.94	70	1.37	207.9	1.81	NM	NM
	05/07/13	20.90	4.43	70	1.33	38.3	4.77	NM	NM
	10/22/13	21.20	4.85	70	1	305.8	5.13	NM	NM
	04/28/14	21.60	4.84	66	1.08	204	5.71	NM	NM
	11/12/14	22.19	4.01	63	1.21	162.2	1.26	NM	NM
	04/13/15	23.18	4.98	57	3.73**	336	5.6	NM	NM
MW-10B	10/11/10	22.51	5.07	81	3.08	65.1	3.1	NM	NM
	04/19/11	17.74	4.95	57	0.22	187.8	6.05	NM	NM
	10/04/11	21.67	5.39	79	0.29	41.3	2.9	NM	NM
	05/16/12	20.81	4.98	74	0.17	-4.7	6.4	NM	NM
	11/06/12	19.46	4.91	59	0.58	179.9	1.49	NM	NM
	05/07/13	18.99	4.94	70	0.47	135.3	4.54	NM	NM
	10/22/13	20.90	4.96	73.8	0.7	108.4	25.8	NM	NM
	04/28/14	20.30	4.86	88.4	0.22	78.3	25.8	NM	NM
	11/11/14	21.41	3.51	60	0.54	159.7	5.32	NM	NM
	04/14/15	21.18	5.14	46	5.45**	240	2.6	NM	NM
MW-10D	10/11/10	22.43	5.16	100	0.52	34.8	2.21	NM	NM
	04/19/10	18.95	4.73	60	0.8	-20	0	NM	NM
	10/04/11	21.97	5.32	84	0.27	24	0	NM	NM
	05/16/12	21.44	5.26	87	0.23	1.1	2.2	NM	NM
	11/06/12	19.91	4.83	61	0.38	180.6	7.23	NM	NM
	05/07/13	18.79	4.72	60	0.5	189	2.84	NM	NM
	10/22/13	20.40	5.28	81.8	0.17	100.6	3.98	NM	NM
	04/28/14	20.90	4.89	99.1	0.17	97.5	9.45	NM	NM
	11/11/14	23.61	5.09	108	0.47	172.7	5.12	NM	NM
	04/14/15	20.69	5.10	57	6.03**	158	8.3	NM	NM
MW-16B	10/11/10	21.93	4.41	65	3.55	272.6	5.47	NM	NM
	04/19/11	17.34	4.81	42	2.48	223.1	3	NM	NM
	10/04/11	20.20	5.02	69	0.46	138.4	1.96	NM	NM
	05/16/12	21.34	4.67	68	0.49	8.7	13.2	NM	NM
	11/06/12	20.20	4.85	50	1.6	251.7	1.87	NM	NM
	05/07/13	18.50	4.65	68	1.35	138.2	0.51	NM	NM
	10/22/13	20.00	5.00	61	3.53	81.2	0.49	NM	NM
	04/28/14	18.90	5.01	61	0.18	199.4	4.93	NM	NM
	11/11/14	20.48	3.35	45	0.45	185.2	2.67	NM	NM
	04/14/15	22.64	5.21	46	5.71**	281	0.1	NM	NM
MW-16D	10/11/10	21.75	5.82	72	3.09	111.7	46.2	NM	NM
	04/19/11	18.78	5.36	57	1.25	2.5	9.8	NM	NM
	10/04/11	20.10	6.16	84	0.38	-3.7	22.2	NM	NM
	05/16/12	21.30	6.05	67	1.23	-2.4	56.3	NM	NM
	11/06/12	20.07	6.15	60	0.29	115.7	2.31	NM	NM
	05/07/13	19.35	5.95	72	1.37	97.2	8.1	NM	NM
	10/22/13	19.60	6.30	106	0.21	12.9	10.7	NM	NM
	04/28/14	19.20	6.00	123.7	0.16	42	12.9	NM	NM
MW-16D	11/11/14	20.91	6.23	95	0.35	138.3	5.01	NM	NM
	04/14/15	NM	NM	NM	NM	NM	NM	NM	NM

Table 2-2: Field Water Quality Measurements (2010-2015)

Field Parameter		Temperature	pH	Specific Conductivity	Dissolved Oxygen	ORP	Turbidity	*Ferrous Iron	*Carbon Dioxide
Sample ID	Date	℃	SU	µS/cm	mg/L	mV	NTU	mg/L	mg/L
MW-18B	10/12/10	20.95	5.65	172	4.97	181.9	46	NM	NM
	10/03/11	22.08	5.51	126	3.77	71.4	9.97	NM	NM
	11/06/12	19.10	5.04	100	4.73	240.9	20.3	NM	NM
	10/22/13	20.00	5.28	115	4.99	257.7	38.2	NM	NM
	11/12/14	19.95	4.80	101	3.98	232.7	8.65	NM	NM
	04/16/15	12.56	5.65	107	6.79	77	1.1	NM	NM
MW-18D	10/12/10	19.74	4.48	76	4.05	282.4	2.5	NM	NM
	04/19/11	22.93	4.82	66	2.17	249.4	5.82	NM	NM
	10/03/11	21.60	4.78	74	0.95	114.2	9.35	NM	NM
	05/16/12	21.94	5.04	78	2.69	22.2	103	NM	NM
	11/06/12	19.48	4.93	68	1.19	204.7	1.57	NM	NM
	05/07/13	18.95	4.30	70	1.18	78.9	3.17	NM	NM
	10/22/13	18.80	4.78	67	0.67	211.5	7.86	NM	NM
	04/28/14	21.10	4.94	63	1.59	178	1.9	NM	NM
	11/12/14	20.64	4.44	61	0.69	216.9	0.89	NM	NM
	04/16/15	11.76	4.73	67	1.86	143	0.7	NM	NM
MW-19B	10/12/10	21.98	4.49	55	3.82	320.4	2.28	NM	NM
	10/04/11	22.96	4.78	52	1.5	91.1	0.91	NM	NM
	11/06/12	17.09	5.06	41	1	182.1	23.2	NM	NM
	10/22/13	20.50	4.99	93.3	1.03	123.9	1.8	NM	NM
	11/11/14	20.07	3.98	43	0.98	186.7	4.49	NM	NM
MW-19D	10/12/10	20.71	4.75	83	4.15	440.7	8.02	NM	NM
	04/19/11	19.20	4.23	65	0.79	-51.2	19.5	NM	NM
	10/04/11	21.43	5.01	70	0.41	45.2	115	NM	NM
	05/16/12	20.53	5.35	73	0.5	11.9	6.96	NM	NM
	11/06/12	18.26	5.33	73	0.46	104.4	7.7	NM	NM
	05/07/13	19.43	4.69	61	0.49	170.9	6.47	NM	NM
	10/22/13	19.70	5.14	55.9	0.32	89.9	7.05	NM	NM
	04/28/14	19.70	5.27	64	0.18	126.5	9.13	NM	NM
	11/11/14	20.00	5.59	110	0.52	105.4	4.28	NM	NM
	04/13/15	NM	NM	NM	NM	NM	NM	NM	NM
MW-20B	10/11/10	21.47	3.51	80	1.77	165.4	0.47	NM	NM
	04/19/11	18.81	4.54	50	1.48	182.8	0	NM	NM
	10/03/11	20.97	4.29	53	1.37	180.5	0	NM	NM
	11/06/12	19.68	4.51	46	1.47	238.9	0.29	NM	NM
	10/22/13	20.10	4.65	49.2	0.79	126	2.78	NM	NM
	11/12/14	18.78	4.09	54	2.38	167	0.18	NM	NM
	04/13/15	22.23	4.55	61	1.73	162	0	NM	NM
MW-20D	10/11/10	20.76	3.86	74	6.95	183.5	0.75	NM	NM
	10/03/11	19.32	3.87	48	6.92	170	4.24	NM	NM
	11/06/12	19.17	5.38	48	4.77	211	0.59	NM	NM
	10/22/13	19.60	5.00	49.9	5.49	150.3	2.11	NM	NM
	11/12/14	20.21	3.78	40	6.16	233	5.72	NM	NM
	04/13/15	22.36	4.75	48	5.3	175	1.1	NM	NM

Notes:

uS/cm: microseimens per centimeter
mg/L: milligrams per liter
ug/L: micrograms per liter
SU: Standard Units
℃: Degrees Celsius
NM: Not Measured
TOC: total organic carbon
ORP: oxidation-reduction potential
NTU: Nephelometric Turbidity Units
mV: millivolts
*Ferrous iron and carbon dioxide measurements were analyzed using a HACH field Colorimeter.
**DO probe on one of the field instruments not working properly.

Table 2-3: Geochemical Parameters in Groundwater: October 2010 to April 2015

Sample ID	Chemical Name	Ethane	Ethene	Methane	Dissolved Hydrogen	*Carbon Dioxide	Alkalinity	TOC	Chloride	Sulfate	Iron	Manganese	*Ferrous Iron
	Date	ug/L	ug/L	ug/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-100A	10/12/2010	24	145	2640	710	500 +	128	246	125	< 5.0	188	0.457	3.3
	12/2/2010	NA	NA	NA	NA	NA	NA	1150	155	NA	NA	NA	NA
	1/25/2011	15.3	82.9	1930	130000	435	NA	NA	129	< 5.0	191	0.505	NA
	4/21/2011	NA	NA	NA	35000	500 +	220	391	140	NA	NA	NA	NA
	8/17/2011	16	70.4	4050	NA	500 +	NA	NA	NA	NA	158	0.557	3.2
	10/5/2011	< 10	< 10	14.3	NA	500 +	147	353	123	NA	NA	NA	4
	5/17/2012	NA	NA	NA	NA	100 +	NA	289	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	415	153	NA	NA	NA	NA
	5/7/2013	NA	NA	NA	NA	NA	NA	373	NA	NA	NA	NA	NA
	10/23/2013	15.3	132	8,460 E	110	NA	NA	357	148	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	NA	NA	338	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	333	126	NA	NA	NA	NA
	4/15/2015	NA	NA	NA	NA	NA	NA	301	NA	NA	NA	NA	NA
MW-100B	10/13/2010	24.8	122	3990	3700	500 +	188	304	113	< 5.0	196	0.392	25.12
	12/2/2010	NA	NA	NA	NA	NA	NA	2360	123	NA	NA	NA	NA
	1/25/2011	NA	NA	NA	180000	400	NA	NA	13.9	< 5.0	223	0.474	NA
	4/21/2011	11.1	46	1020	98000	500 +	277	673	141	NA	NA	NA	NA
	8/17/2011	19.6	95.4	3760	NA	500 +	NA	NA	NA	NA	244	0.698	4.2
	10/5/2011	26.7	117	5990	NA	500 +	256	690	141	NA	NA	NA	4.6
	5/17/2012	10.4	61	5260	NA	100 +	274	592	NA	NA	NA	NA	NA
	11/7/2012	18	91.4	8070	NA	NA	NA	568	140	NA	NA	NA	NA
	5/7/2013	17.6	97.6	11400	NA	350 +	131	484	NA	NA	NA	NA	NA
	10/23/2013	9.4	57.7	4250	1600	NA	NA	467	145	NA	NA	NA	NA
	4/29/2014	14.3	93.7	6840	NA	200	188	446	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	443	133	NA	NA	NA	NA
	4/15/2015	8.4	67.1	4450 E	NA	NA	251	424	NA	NA	NA	NA	NA
MW-101A	10/13/2010	< 10	< 10	794	NA	165	44.2	22	14.3	< 5.0	40.4	0.0408	8.7
	12/2/2010	NA	NA	NA	NA	NA	NA	169	NA	NA	NA	NA	NA
	1/25/2011	< 10	< 10	1200	NA	95	NA	NA	< 5.0	NA	NA	NA	NA
	4/19/2011	NA	NA	NA	NA	55	50.6	24.5	14.2	NA	NA	NA	NA
	8/17/2011	< 10	< 10	12800	NA	95	NA	NA	NA	NA	19.8	0.0182	3.2
	10/5/2011	< 10	< 10	7100	NA	NA	35.4	10.4	10.5	NA	NA	NA	NA
	5/17/2012	NA	NA	NA	NA	100 +	NA	7	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	5.6	8.4	NA	NA	NA	NA
	5/8/2013	NA	NA	NA	NA	NA	NA	24.8	NA	NA	NA	NA	NA
	10/23/2013	< 6.2	< 6.2	7780	NA	NA	NA	32.6	8.3	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	NA	NA	7.2	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	0.95 B	8.6	NA	NA	NA	NA
	4/15/2015	NA	NA	NA	NA	NA	NA	1.2	NA	NA	NA	NA	NA

Table 2-3: Geochemical Parameters in Groundwater: October 2010 to April 2015

Sample ID	Chemical Name	Ethane	Ethene	Methane	Dissolved Hydrogen	*Carbon Dioxide	Alkalinity	TOC	Chloride	Sulfate	Iron	Manganese	*Ferrous Iron
	Date	ug/L	ug/L	ug/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-101B	10/13/2010	< 10	< 10	1120	NA	125	6.2	102	24.6	< 5.0	32.6	0.0936	7.75
	12/2/2010	NA	NA	NA	NA	NA	NA	403	NA	NA	NA	NA	NA
	1/25/2011	NA	NA	NA	NA	30	NA	NA	12.4	NA	NA	NA	NA
	4/19/2011	NA	NA	NA	NA	175	48.6	17.6	< 5.0	NA	NA	NA	NA
	8/17/2011	< 10	< 10	4630	NA	395	NA	NA	NA	NA	75.6	0.111	3.2
	10/5/2011	< 10	< 10	6650	NA	NA	59.4	128	16.3	NA	NA	NA	NA
	5/17/2012	< 6.2	< 6.2	7300	NA	100 +	76.6	158	NA	NA	NA	NA	NA
	11/7/2012	< 6.2	0.92 J	5290	NA	NA	NA	133	12.2	NA	NA	NA	NA
	5/8/2013	< 6.2	< 6.2	5690	NA	215	56.4	90.6	NA	NA	NA	NA	NA
	10/23/2013	< 6.2	< 6.2	8340	NA	NA	NA	34.9	13.6	NA	NA	NA	NA
	4/29/2014	< 6.2	< 6.2	6340	NA	275	46.7	36.6	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	1.7	<0.80	NA	NA	NA	NA
	4/14/2015	<1.0	<1.0	57.8	NA	NA	44	1.4	NA	NA	NA	NA	NA
MW-102A	10/13/2010	< 10	< 10	2340	NA	60	< 5.0	3.1	10.8	< 5.0	0.688	0.0163	0.75
	12/2/2010	NA	NA	NA	NA	NA	NA	143	NA	NA	NA	NA	NA
	1/25/2011	< 10	< 10	3520	NA	60	NA	NA	11	NA	NA	NA	NA
	4/20/2011	NA	NA	NA	NA	150	26	17.7	12.1	NA	NA	NA	NA
	8/17/2011	< 10	< 10	4890	NA	125	NA	NA	NA	NA	12.1	13.9	2.6
	10/5/2011	< 10	< 10	852	NA	175	13.5	12.3	10.9	NA	NA	NA	3.2
	5/17/2012	NA	NA	NA	NA	100 +	NA	43.1	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	8.5	9.5	NA	NA	NA	NA
	5/8/2013	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA
	10/23/2013	1.8 J	< 6.2	8,840 E	NA	NA	NA	9.9	10.4	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	NA	NA	9.8	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	1.8	9.9	NA	NA	NA	NA
	4/14/2015	NA	NA	NA	NA	NA	NA	1.4	NA	NA	NA	NA	NA
MW-102B	10/13/2010	< 10	< 10	7060	NA	95	43.2	4.7	11.6	< 5.0	22.1	0.0472	4.89
	12/2/2010	NA	NA	NA	NA	NA	NA	311	NA	NA	NA	NA	NA
	1/25/2011	NA	NA	NA	NA	200	NA	NA	< 5.0	NA	NA	NA	NA
	4/20/2011	< 10	< 10	92.9	NA	125	130	101	12.3	NA	NA	NA	NA
	8/17/2011	< 10	< 10	6240	NA	250	NA	NA	NA	NA	61.9	131	2.8
	10/5/2011	< 10	< 10	17200	NA	200	NA	NA	NA	NA	NA	NA	5.4
	5/17/2012	3.2 J	3.3 J	11800	NA	100 +	96.8	33.3	NA	NA	NA	NA	NA
	11/7/2012	5.2 J	3.1 J	14000	NA	NA	NA	24.3	11.2	NA	NA	NA	NA
	5/8/2013	4.4 J	2.5 J	14800	NA	235	45.3	17.8	NA	NA	NA	NA	NA
	10/23/2013	< 6.2	< 6.2	388	4.7	NA	NA	16.5	11.4	NA	NA	NA	NA
	4/29/2014	< 6.2	< 6.2	12,000 E	NA	240	51.7	13.3	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	6.4	11.1	NA	NA	NA	NA
	4/14/2015	2.7	<1.0	5940	NA	NA	77.6	5.7	NA	NA	NA	NA	NA

Table 2-3: Geochemical Parameters in Groundwater: October 2010 to April 2015

Sample ID	Chemical Name	Ethane	Ethene	Methane	Dissolved Hydrogen	*Carbon Dioxide	Alkalinity	TOC	Chloride	Sulfate	Iron	Manganese	*Ferrous Iron
	Date	ug/L	ug/L	ug/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-102C	10/13/2010	< 10	< 10	7400	NA	110	48.4	92	19.9	< 5.0	43.2	0.236	8.76
	12/2/2010	NA	NA	NA	NA	NA	NA	69.9	NA	NA	NA	NA	NA
	1/25/2011	< 10	< 10	8170	NA	235	NA	NA	25.6	NA	NA	NA	NA
	4/20/2011	NA	NA	NA	NA	85	84	198	25.6	NA	NA	NA	NA
	8/17/2011	< 10	< 10	7840	NA	375	NA	NA	NA	NA	65.7	433	4.4
	10/5/2011	12.5	< 10	12000	NA	450	56.2	512	24.6	NA	NA	NA	2.5
	5/17/2012	NA	NA	NA	NA	100 +	49.4	92.7	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	396	31.2	NA	NA	NA	NA
	5/8/2013	NA	NA	NA	NA	275	50.7	234	NA	NA	NA	NA	NA
	10/23/2013	16.2	3.8 J	10,700 E	2100	NA	NA	266	31.7	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	225	67.1	154	NA	NA	NA	NA	NA
	11/12/2014	NA	NA	NA	NA	NA	NA	265	33.3	NA	NA	NA	NA
	4/14/2015	NA	NA	NA	NA	NA	53.4	246	NA	NA	NA	NA	NA
MW-103A	10/12/2010	<10.0	< 10	572	NA	NA	9.3	19.5	19.8	< 5.0	15.1	0.0607	NA
	1/25/2011	NA	NA	NA	NA	NA	NA	2.9	NA	NA	NA	NA	NA
	4/20/2011	NA	NA	NA	NA	NA	24	NA	NA	NA	NA	NA	NA
	8/17/2011	< 10	31.2	3650	NA	135	NA	5.7	NA	NA	NA	NA	2.6
	10/4/2011	< 10	41.8	3830	NA	NA	54.4	4.2	16.5	NA	NA	NA	NA
	5/16/2012	NA	NA	NA	NA	100 +	NA	NA	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	5.1	20.4	NA	NA	NA	NA
	5/7/2013	NA	NA	NA	NA	150	NA	NA	NA	NA	NA	NA	NA
	10/22/2013	< 6.2	63.3	8,250 E	NA	NA	NA	2	18.6	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	275	NA	NA	NA	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	1.4	20.9	NA	NA	NA	NA
MW-103B	10/12/2010	< 10	21.4	1510	NA	NA	26.8	3.4	12.2	< 5.0	40.7	0.144	NA
	12/2/2010	NA	NA	NA	NA	NA	NA	3.1	NA	NA	NA	NA	NA
	1/25/2011	NA	NA	NA	NA	NA	NA	2.9	NA	NA	NA	NA	NA
	4/20/2011	< 10	49.9	3350	NA	NA	39	3.7	NA	NA	NA	NA	NA
	8/17/2011	< 10	91.8	5450	NA	115	NA	32.4	NA	NA	NA	NA	4.2
	10/4/2011	< 10	65	5440	NA	NA	41.8	3.7	12.1	NA	NA	NA	NA
	5/17/2012	< 10	26.8	2600	NA	100 +	57.5	2.8	NA	NA	NA	NA	NA
	11/7/2012	< 6.2	29.8	5340	NA	NA	NA	4.7	15.6	NA	NA	NA	NA
	5/7/2013	< 6.2	33.7	5130	NA	25	32.1	4.6	NA	NA	NA	NA	NA
	10/22/2013	< 6.2	50.3	5480	NA	NA	NA	3.8	12.7	NA	NA	NA	NA
	4/29/2014	< 6.2	41.8	4010	NA	235	50.7	4.5	NA	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	1.1	15.8	NA	NA	NA	NA
	4/14/2015	0.41 J	32.3	2200	NA	NA	53.8	NA	NA	NA	NA	NA	NA

Table 2-3: Geochemical Parameters in Groundwater: October 2010 to April 2015

Sample ID	Chemical Name	Ethane	Ethene	Methane	Dissolved Hydrogen	*Carbon Dioxide	Alkalinity	TOC	Chloride	Sulfate	Iron	Manganese	*Ferrous Iron
	Date	ug/L	ug/L	ug/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-103C	10/12/2010	NA	NA	NA	NA	NA	45.1	3.1	15	< 5.0	25.1	0.112	NA
	12/2/2010	NA	NA	NA	NA	NA	NA	2.9	NA	NA	NA	NA	NA
	1/25/2011	< 10	39.3	2470	NA	NA	NA	2.6	NA	NA	NA	NA	NA
	4/20/2011	NA	NA	NA	NA	NA	33	3.9	NA	NA	NA	NA	NA
	8/17/2011	< 10	55.5	3320	NA	140	NA	4.1	NA	NA	NA	NA	2.25
	10/4/2011	NA	NA	NA	NA	NA	43.9	27	15.1	NA	NA	NA	NA
	5/16/2012	NA	NA	NA	NA	100 +	24.2	6.3	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	4.6	16	NA	NA	NA	NA
	5/8/2013	NA	NA	NA	NA	150	26.5	12.9	NA	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	16	17.7	NA	NA	NA	NA
	4/29/2014	NA	NA	NA	NA	160	20	47.8	NA	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	1.6	14.5	NA	NA	NA	NA
	4/14/2015	NA	NA	NA	NA	NA	56.6	NA	NA	NA	NA	NA	NA
MW-104A	10/4/2011	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	4.9	NA	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	0.69 B	NA	NA	NA	NA	NA
MW-104B	10/12/2010	NA	NA	NA	NA	NA	< 5.0	2.3	14.9	NA	NA	NA	NA
	10/4/2011	NA	NA	NA	NA	75	6.3	2.6	18.9	NA	NA	NA	0
	5/16/2012	NA	NA	NA	NA	100 +	NA	NA	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	3.1	18	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	3.9	15.2	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	0.66 B	14.1	NA	NA	NA	NA
MW-104C	10/12/2010	NA	NA	NA	NA	NA	9.3	3.1	17.2	NA	NA	NA	NA
	10/4/2011	NA	NA	NA	NA	40	11.5	2.8	17.5	NA	NA	NA	0
	5/16/2012	NA	NA	NA	NA	100 +	NA	NA	NA	NA	NA	NA	NA
	11/7/2012	NA	NA	NA	NA	NA	NA	25	18.8	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	29.8	18.3	NA	NA	NA	NA
	11/13/2014	NA	NA	NA	NA	NA	NA	0.62 B	16.6	NA	NA	NA	NA
MW-10B	10/11/2010	NA	NA	NA	NA	NA	NA	NA	19.7	NA	NA	NA	NA
	10/4/2011	NA	NA	NA	NA	NA	NA	NA	11.4	NA	NA	NA	NA
	11/6/2012	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	NA	14.4	NA	NA	NA	NA
	11/11/2014	NA	NA	NA	NA	NA	NA	NA	12.2	NA	NA	NA	NA

Table 2-3: Geochemical Parameters in Groundwater: October 2010 to April 2015

Sample ID	Chemical Name	Ethane	Ethene	Methane	Dissolved Hydrogen	*Carbon Dioxide	Alkalinity	TOC	Chloride	Sulfate	Iron	Manganese	*Ferrous Iron
	Date	ug/L	ug/L	ug/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-10D	10/11/2010	NA	NA	NA	NA	NA	NA	NA	18.4	NA	NA	NA	NA
	10/4/2011	NA	NA	NA	NA	NA	NA	NA	12.1	NA	NA	NA	NA
	11/6/2012	NA	NA	NA	NA	NA	NA	NA	11.5	NA	NA	NA	NA
	10/22/2013	NA	NA	NA	NA	NA	NA	NA	14.4	NA	NA	NA	NA
	11/11/2014	NA	NA	NA	NA	NA	NA	NA	13.6	NA	NA	NA	NA
MW-16D	10/11/2010	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA
	10/4/2011	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA	NA

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
nM - nanoMoles per liter
TOC - total organic carbon
NA - not analyzed
cells/mL - cells per milliliter
*Ferrous iron and carbon dioxide measurements were analyzed using a HACH field Colorimeter.

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		200	0.6	6	0.4	3000	0.7	3	70	100	350	0.03	70	5	6000	1	600	70	4000	100	20	6	70	600	500	400	88	2000	1000	200000	3
Sample ID	Date																														
MW-100A	10/12/10	630	<500	<500	<500	<500	<500	<500	38,000	<500	600	<500	<500	790	<2,500	<500	<500	<500	4,200	<2,500	<500	<500	<500	2,400	<1,500	<500	<2,500	<500	<2,500	22,000	NA
MW-100A	12/02/11	<500	<500	<500	<500	<500	<500	<500	38,000	<500	<500	<500	<500	1,400	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	2,400	<1,500	<500	<2,500	<500	<2,500	14,000	NA
MW-100A	01/25/11	640	<500	<500	<500	<500	<500	<500	36,000	<500	540	<500	<500	5,400	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	2,500	<1,500	<500	<2,500	<500	<2,500	18,000	NA
MW-100A	04/21/11	1,600	<100	<100	200	<100	<100	810	51,000	<100	770	110	180	21,000	<500	<100	<100	<100	<500	<500	<100	<100	<100	2,900	<300	<100	<500	<100	<500	25,000	NA
MW-100A	08/17/11	1,700	<100	<100	190	<100	<100	940	48,000	320	750	<100	200	20,000	<500	<100	<100	<100	1,400	<500	<100	<100	<100	2,500	120	<100	<500	<100	<500	18,000	NA
MW-100A	10/05/11	2,000	<100	<100	170	<100	<100	880	50,000	<100	740	<100	240	27,000	<500	<100	<100	<100	<500	<500	<100	<100	<100	2,600	<300	<100	<500	<100	<500	20,000	NA
MW-100A	05/17/12	1,200	<20	91	120	<20	37	80	40,000	22	750	81	160	1,800	<100	23	22	<20	<100	<100	<20	<20	<20	2,600	90	<20	<100	<20	<100	22,000	NA
MW-100A	11/07/12	1,100	<50	81	100	<50	<50	69	47,000	<1.0	660	62	160	1,900	580	<50	<50	<50	<5.0	<5.0	<1.0	<50	<50	2,000	50	<50	<5.0	<1.0	<5.0	17,000	NA
MW-100A	05/07/13	790	4.20	87	91	<1.0	36	63	41,000	22	600	120	150	810	518	17	21	2.1	3,500	100	<1.0	7.2	4.6	2,100	92	4	5	<1.0	150	16,000	NA
MW-100A	10/23/13	610	<50	99	100	<50	27 J	35	48,000	<50	600	92	130	<250	370	22 J	17 J	<50	3,400	<250	<50	<50	<50	2,100	66 J	<50	<100	<50	<250	17,000	NA
MW-100A	04/29/14	880	<50	110	120	<50	26	25	49,000	<50	<50	90	160	<250	520	21	20	<50	<250	<250	<250	<50	<50	2,300	86	<50	<100	<50	<250	18,000	NA
MW-100A	11/12/14	580	<50	87	87	<50	<50	25	45,000	<50	570	69	110	260	420	17 J	15 J	<50	<250	<250	<50	<50	<50	1,700	58 J	<50	<100	<50	<250	12,000	NA
MW-100A	04/15/15	720	<100	110	110	<100	<100	<50	41,000	<100	640	120	140	<500	530	<50	<50	<100	<500	<500	<100	<100	<100	1,800	64 J	<100	<200	<100	<500	13,000	NA
MW-100B	10/13/10	800	<500	<500	<500	<500	<500	2,300	41,000	<500	540	<500	<500	660	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	2,700	<1,500	<500	<2,500	<500	<2,500	25,000	NA
MW-100B	12/02/10	810	<500	<500	<500	<500	<500	13,000	42,000	<500	700	<500	<500	8,200	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	3,300	<1,500	<500	<2,500	<500	<2,500	13,000	NA
MW-100B	01/25/11	700	<500	<500	<500	<500	<500	11,000	36,000	<500	640	<500	<500	9,700	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	2,900	<1,500	<500	<2,500	<500	<2,500	14,000	NA
MW-100B	04/21/11	1,500	<100	<100	250	<100	120	8,600	56,000	<100	930	130	190	35,000	<500	<100	<100	<100	<500	<500	<100	<100	<100	3,700	<300	<100	<500	<100	<500	31,000	NA
MW-100B	08/17/11	1,700	<100	<100	270	<100	<100	7,600	56,000	380	970	110	260	37,000	<500	<100	<100	<100	510	<500	<100	<100	<100	3,600	<300	<100	<500	100	<500	22,000	NA
MW-100B	10/05/11	2,400	<100	110	300	<100	<100	6,900	66,000	<100	1,100	110	340	57,000	<500	<100	<100	<100	<500	<500	<100	<100	<100	3,600	<300	<100	<500	<100	<500	25,000	NA
MW-100B	05/17/12	1,500	<20	94	210	<20	54	3,600	52,000	26	910	110	230	25,000	<100	29	25	<20	<100	<100	<20	<20	<20	3,300	99	<20	<100	<20	<100	18,000	NA
MW-100B	11/07/12	1,700	<200	<200	200	<200	<200	1,600	79,000	<200	1,000	<200	260	27,000	<200	<200	<200	<200	<200	<200	<200	<200	<200	3,600	29	<200	<200	<200	<1,000	23,000	NA
MW-100B Dup	11/07/12	2,000	<200	<200	210	<200	<200	1,700	80,000	<200	1,100	<200	270	29,000	<200	<200	<200	<200	<200	<200	<200	<200	<200	3,700	<600	<200	<200	<200	<1,000	26,000	NA
MW-100B	05/07/13	1,600	6.70	90	150	<5.0	57	1,100	62,000	25	940	95	200	11,000	<5.0	24	28	<5.0	1,600	92	<5.0	8.9	6.5	3,400	118	5.5	<25	<5.0	140	22,000	NA
MW-100B Dup	05/07/13	1,600	7.10	89	150	<1.0	55	1,100	59,000	24	910	92	200	11,000	326	24	28	<1.0	1,600	94	<5.0	10	6.7	3,400	119	5.7	5.5	<5.0	130	20,000	NA
MW-100B	10/23/13	1,300	<50	100	150	<50	44 J	1,000	63,000	<50	830	91	180	5,300	<250	29	27	<50	<250	<250	<50	<50	<50	3,300	103	<50	100	<50	<250	21,000	NA
MW-100B	04/29/14	1,500	<50	110	180	<50	34	430	69,000	<50	<50	86	210	2,500	360	28	29	<50	<250	<250	<250	<50	<50	3,300	112	<50	<100	<50	<250	23,000	NA
MW-100B	11/12/14	1,100	<50	98	130	<50	<50	820	57,000	<50	740	90	150	1,100	<250	22 J	20 J	<50	<250	<250	<50	<50	<50	2,700	78 J	<50	<100	<50	<250	16,000	NA
MW-100B	04/15/15	1,300	<200	120 J	<200	<200	<200	220	61,000	<200	850	98 J	170 J	<1000	<1000	<100	<100	<200	<1000	<1000	<200	<200	<200	2,800	110 J	<200	<400	<200	<1000	19,000	30
MW-100B Dup	04/15/15	1,200	<200	130 J	<200	<200	<200	220	62,000	<200	810	97 J	190 J	<1000	<1000	<100	<100	<200	<1000	<1000	<200	<200	<200	2,900	110 J	<200	<400	<200	<1000	18,000	24
MW-101A	10/13/10	3,700	<500	<500	<500	<500	<500	44,000	5,600	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	1,900	<1,500	<500	<2,500	<500	<2,500	23,000	NA
MW-101A DUP	10/13/10	3,600	<500	<500	<500	<500	<500	44,000	5,400	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	1,900	<1,500	<500	<2,500	<500	<2,500	23,000	NA
MW-101A	12/02/10	1,600	<500	<500	<500	<500	<500	13,000	15,000	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	1,100	<1,500	<500	<2,500	<500	<2,500	21,000	NA
MW-101A	01/25/11	1,000	<500	<500	<500	<500	<500	1,600	13,000	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	810	<1,500	<500	<2,500	<500	<2,500	22,000	NA
MW-101A	04/19/11	1,100	<20	<20	<20	<20	97	790	8,300	<20	140	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	630	49	<20	<100	<20	<100	42,000	NA
MW-101A	08/16/11	720	<20	<20	<20	<20	49	940	1,700	<20	120	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	260	25	<20	<100	<20	<100	22,000	NA
MW-101A	10/05/11	820	<50	<50	<50	<50	<50	1,800	2,700	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	310	<150	<50	<250	<50	<250	24,000	NA
MW-101A	05/17/12	160	<20	<20	<20	<20	40	310	470	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	94	<20	<20	<100	<20	<100	9,800	NA
MW-101A	11/07/12	60	<5.0	<5.0	<5.0	<5.0	10	86	140	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	<5.0	<5.0	<5.0	24	<15	<5.0	<25	<5.0	<25	3,300	NA
MW-101A	05/08/13	56	<5.0	<5.0	<5.0	<5.0	18	110	190	<5.0	<5.0	<5.0	5.2	<5.0	<25	<5.0	<5.0	<5.0	100	<25	<5.0	<5.0	<5.0	29	<15	<5.0	<25	<5.0	<25	4,700	NA
MW-101A	10/23/13	31	<10	<10	<10	<10	9.4 J	32	34	<10	<10	<5.0	<10	<10	<50	<5.0	<5.0	<10	<50	<50	<10	<10	<10	4.8 J	<15	<10	<20	<10	<50	4,900	NA
MW-101A DUP	10/23/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	68	<1.0	<1.0	0.8	<1.0	<1.0	<5.0	0.5 J	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	150	NA
MW-101A	04/29/14	19	<10	<10	<10	<10	19	100	350	<10	<10	<10	<10	<10	<50	<5.0	3	<10	<50	<50	<50	<10	<10	32	9.3	<10	<20	<10	<50	6,600	NA
MW-101A	11/12/14	<10	<10	<10	<10	<10	<10	12	22	<10	<10	<5.0	<10	<50	<50	<5.0	<5.0	<10	<50	<50	<10	<10	<10	<5.0	<10	<10	<20	<10	<50	2,200	NA
MW-101A	04/15/15	3.9	<1.0	0.59 J	<1.0	<1.0	2.5	5.9	48	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	0.34 J	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	2.5	1.52 J	<1.0	<2.0	<1.0	<5.0	710	NA
MW-101B	10/13/10	1,500	<500	<500	<500	<500	<500	4,500	30,000	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	1,400	<1,500	<500	<2,500	<500	<2,500	14,000	NA
MW-101B	12/02/10	1,500	<500	<500	<500	<500	<500	1,800	29,000	<500	<500	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	1,200	<1,500	<500	<2,500	<500	<2,500	11,000	NA
MW-101B	01/25/11	77	<20	<20	<20	<20	<20	<20	2,800	<20	26	<20	<20	20	<100	<20	<20	<20	<100	<100	<20	<20	<20	47	<60	<20	<100	<20	<100	300	NA
MW-101B	04/19/11	83	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2,000	<5.0	23	<5.0	<5.0	10	<25	<5.0	<5.0	<5.0	<25	<25	<5.0	<5.0	<5.0	71	<15	<5.0	<25	<5.0	<25	660	NA
MW-101B	08/16/11	1,500	<20	42	<20	<20	37	1,300	23,000	99	230	<20	<20	52	<100	<20	<20	<20	<100	<100	<20	<20	<20	1,100	<60	<20	<100	<20	<100	10,000	NA

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		**200**	**0.6**	**6**	**0.4**	**3000**	**0.7**	**3**	**70**	**100**	**350**	**0.03**	**70**	**5**	**6000**	**1**	**600**	**70**	**4000**	**100**	**20**	**6**	**70**	**600**	**500**	**400**	**88**	**2000**	**1000**	**200000**	**3**
MW-101B	10/05/11	**770**	<20	**23**	<20	<20	<20	**110**	**8,200**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	560	<60	<20	<100	<20	<100	5,600	NA
MW-101B	05/17/12	**1,200**	<20	**31**	<20	<20	**50**	**360**	**16,000**	<20	190	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	**1,300**	42	<20	<100	<20	<100	17,000	NA
MW-101B	11/07/12	**610**	<10	**17**	<10	<10	**47**	**410**	**9,400**	<10	120	<10	<10	<10	<50	<10	12	<10	<50	<50	<10	<10	<10	**840**	50	<10	<50	<10	<50	13,000	NA
MW-101B	05/08/13	**500**	<5.0	**14**	<5.0	<5.0	**61**	**400**	**8,600**	<5.0	100	<5.0	11	**14**	<25	<5.0	13	<5.0	140	<25	<5.0	<5.0	<5.0	**770**	53	<5.0	<25	<5.0	39	18,000	NA
MW-101B	10/23/13	**490**	<20	13 J	<20	<20	**64**	**110**	**9,200**	<20	85	<10	<20	<100	<100	<10	13	<20	<100	<100	<20	<20	<20	**750**	49	<20	<40	<20	<100	17,000	NA
MW-101B	04/29/14	**460**	<20	**14**	<20	<20	**49**	**40**	**9,100**	<20	<20	<10	<20	<100	<100	<10	12	<20	<100	<100	<20	<20	<20	**680**	48	<20	<40	<20	<100	15,000	NA
MW-101B Dup	04/29/14	**480**	<20	**16**	<20	<20	**51**	**44**	**9,300**	<20	<20	<10	<20	<100	<100	<10	12	<20	<100	<100	<20	<20	<20	**710**	51	<20	<40	<20	<100	16,000	NA
MW-101B	11/12/14	0.54 J	<1.0	<1.0	<1.0	<1.0	0.64 J	**40**	**120**	0.54 J	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.31 J	<1.0	<1.0	<2.0	<1.0	<5.0	7.4	NA
MW-101B	04/14/15	27	<1.0	0.93 J	<1.0	<1.0	**2.1**	**19**	**510**	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	4.2	0.58 J	<1.0	<2.0	<1.0	<5.0	680	<2.0
MW-102A	10/13/10	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	890	NA
MW-102A	12/02/10	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	760	NA
MW-102A	01/25/11	<10	<10	<10	<10	<10	<10	<10	19	<10	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	<10	<30	<10	<50	<10	<50	1,300	NA
MW-102A	04/20/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	23	<1.0	9.2	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	1,900	NA
MW-102A	08/16/11	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	710	NA
MW-102A	10/05/11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	18	<2.0	<2.0	<2.0	<2	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	<10	1,200	NA
MW-102A	05/17/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	23	<2.0	<2.0	<2.0	<2	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	19	920	NA
MW-102A	11/07/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.8	20	<1.0	9.1	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	830	NA
MW-102A	05/08/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	35	<1.0	16	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	5.9	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	59	710	NA
MW-102A	10/23/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.6	25	<1.0	13	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.3 J	<1.5	<1.0	<2.0	<1.0	<5.0	580	NA
MW-102A	04/29/14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	32	<2.0	<2.0	<1.0	<2.0	<10	<10	<1.0	<1.0	<2.0	<10	<10	<10	<2.0	<2.0	<1.0	<3.0	<2.0	<4	<2.0	<10	580	NA
MW-102A	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.41 J	21	<1.0	12	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.36 J	<1.0	<1.0	<2.0	<1.0	<5.0	450	NA
MW-102A	04/14/15	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	1.8	33	<1.0	17	**0.59**	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.9	1.4 J	<1.0	<2.0	<1.0	<5.0	300	NA
MW-102B	10/13/10	<50	<50	<50	<50	<50	<50	**480**	**810**	<50	89	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	3,400	NA
MW-102B	12/02/10	<50	<50	<50	<50	<50	<50	**78**	**410**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	1,600	NA
MW-102B	01/25/11	<50	<50	<50	<50	<50	<50	<50	**550**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	3,300	NA
MW-102B	04/20/11	<10	<10	<10	<10	<10	<10	<10	**1,500**	<10	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	**810**	<30	<10	<50	<10	<50	4,700	NA
MW-102B	08/16/11	21	<10	<10	<10	<10	<10	<10	**1,100**	<10	67	<10	<10	<10	71	<10	<10	<10	100	<50	<10	<10	<10	51	11	<10	<50	<10	<50	3,700	NA
MW-102B	10/05/11	19	<10	<10	<10	<10	<10	<10	**910**	<10	63	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	54	<30	<10	<50	<10	<50	4,100	NA
MW-102B	05/17/12	<2.0	<2.0	<2.0	<2.0	<2.0	**4.3**	**5**	**910**	<2.0	<2.0	**2.5**	<2	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	47	<6	<2.0	<10	<2.0	64	3,600	NA
MW-102B	11/07/12	9.7	<2.0	<2.0	<2.0	<2.0	**3.5**	1.2	**630**	<2.0	79	<2.0	<2	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	35	2.4	<2.0	<10	<2.0	<10	2,900	NA
MW-102B	05/08/13	6.8	<1.0	1.3	<1.0	<1.0	**3.6**	1.2	**450**	<1.0	68	**1.8**	1.1	<1.0	7.6	<1.0	<1.0	<1.0	23	<5.0	<1.0	<1.0	<1.0	28	2.3	<1.0	<5.0	<1.0	120	2,700	NA
MW-102B	10/23/13	5.8	<5.0	<5.0	<5.0	<5.0	**3.8 J**	<2.5	**580**	<5.0	69	<2.5	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	<5.0	<5.0	<5.0	36	2.3	<5.0	<10	<5.0	<25	2,500	NA
MW-102B	04/29/14	6	<5.0	<5.0	<5.0	<5.0	**3.6**	1.8	**520**	<5.0	<5.0	**2.8**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	<5.0	<5.0	<5.0	32	2.5 J	<5.0	<10	<5.0	<25	2,300	NA
MW-102B	11/12/14	3.6	<2.0	1.1 J	<2.0	<2.0	**2.3**	<1.0	**420**	<2.0	31	**3.5**	<2.0	<10	<10	<1.0	<1.0	<2.0	<10	<10	<2.0	<2.0	<2.0	21	1.4 J	<2.0	<4.0	<2.0	<10	860	NA
MW-102B Dup	11/12/14	<5.0	<5.0	<5.0	<5.0	<5.0	**3.3 J**	<2.5	**510**	<5.0	39	**4.4**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	<5.0	<5.0	<5.0	29	<5.0	<5.0	<10	<5.0	<25	1,300	NA
MW-102B	04/14/15	5	<1.0	1.3	<1.0	<1.0	**1.5**	0.85	**510**	<1.0	33	**3**	<1.0	<5.0	<5.0	<0.50	0.71	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	27	2.64	<1.0	<2.0	<1.0	<5.0	1,200	NA
MW-102C	10/13/10	<500	<500	<500	<500	<500	<500	**5,900**	**25,000**	<500	**720**	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	<500	<1,500	<500	<2,500	<500	<2,500	9,600	NA
MW-102C DUP	10/13/10	<500	<500	<500	<500	<500	<500	**4,800**	**21,000**	<500	**580**	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	<500	<1,500	<500	<2,500	<500	<2,500	8,700	NA
MW-102C	12/02/10	<500	<500	<500	<500	<500	<500	**2,000**	**46,000**	<500	**1,200**	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	<500	<1,500	<500	<2,500	<500	<2,500	13,000	NA
MW-102C	01/25/11	<500	<500	<500	<500	<500	<500	**8,000**	**36,000**	<500	**950**	<500	<500	<500	<2,500	<500	<500	<500	<2,500	<2,500	<500	<500	<500	570	<1,500	<500	<2,500	<500	<2,500	9,700	NA
MW-102C	04/20/11	<100	<100	<100	<100	<100	<100	**13,000**	**30,000**	<100	<100	<100	<100	<100	<500	<100	<100	<100	<500	<500	<100	<100	<100	**690**	<300	<100	<500	<100	<500	11,000	NA
MW-102C	08/16/11	140	<100	<100	<100	<100	<100	**21,000**	**32,000**	**160**	**1,200**	<100	<100	**110**	<500	<100	<100	<100	<500	<500	<100	<100	<100	**740**	<300	<100	<500	<100	<500	9,800	NA
MW-102C	10/05/11	<20	<20	<20	<20	<20	**27**	**21,000**	**29,000**	<20	**1,100**	<20	59	**130**	<100	<20	<20	<20	<100	<100	<20	<20	<20	**1,000**	<60	<20	<100	<20	<100	10,000	NA
MW-102C	05/17/12	<20	<20	<20	<20	<20	<20	**4,700**	**44,000**	<20	**1,200**	<20	56	**170**	<100	<20	<20	<20	<100	<100	<20	<20	<20	**700**	20	<20	<100	<20	<100	9,500	NA
MW-102C	11/07/12	160	<50	<50	<50	<50	<50	**12,000**	**48,000**	<50	**1,500**	<50	59	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	**1,500**	<150	<50	<250	<50	<250	14,000	NA
MW-102C	05/08/13	100	<50	<50	<50	<50	<50	**5,300**	**38,000**	<50	**1,000**	<50	<50	**110**	<250	<50	<50	<50	<250	<250	<50	<50	<50	**1,100**	<150	<50	<250	<50	<250	9,100	NA
MW-102C	10/23/13	100	<50	<50	<50	<50	**32**	**5,100**	**48,000**	<50	**1,200**	<25	57	<250	<250	**13 J**	10 J	<50	<250	<250	<50	<50	<50	**1,700**	41.1 J	<50	<100	<50	<250	13,000	NA
MW-102C	04/29/14	74	<20	<20	<20	<20	**21**	**1,800**	**33,000**	<20	**790**	<10	32	**110**	<100	**8.6**	9.3	<20	<100	<100	<20	<20	<20	**1,200**	26	<20	<40	<20	<100	10,000	NA
MW-102C	11/12/14	100	<50	<50	<50	<50	**37 J**	**8,300**	**41,000**	<50	**1,100**	<25	35 J	**310**	<250	<25	<25	<50	<250	<250	<50	<50	<50	**1,800**	40.6 J	<50	<100	<50	<250	10,000	NA
MW-102C (LOW FLOW)	04/14/15	79	<50	<50	<50	<50	<50	**5,400**	**38,000**	<50	**980**	<25	30 J	**360**	<250	<25	<25	<50	<250	<250	<50	<50	<50	**1,300**	<50	<50	<100	<50	<250	8,100	NA

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		**200**	**0.6**	**6**	**0.4**	**3000**	**0.7**	**3**	**70**	**100**	**350**	**0.03**	**70**	**5**	**6000**	**1**	**600**	**70**	**4000**	**100**	**20**	**6**	**70**	**600**	**500**	**400**	**88**	**2000**	**1000**	**200000**	**3**
MW-102C (PDB)	04/14/15	82 J	<100	<100	<100	<100	<100	**570**	**44,000**	<100	**1,200**	<50	<100	<500	<500	<50	<50	<100	<500	<500	<100	<100	<100	**2,000**	89 J	<100	<200	<100	<500	13,000	NA
MW-103A	10/12/10	<50	<50	<50	<50	<50	<50	**54**	**71**	<50	100	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	31,000	NA
MW-103A	01/25/11	<50	<50	<50	<50	<50	<50	<50	**210**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	5,700	NA
MW-103A	04/20/11	<50	<50	<50	<50	<50	<50	**64**	**180**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	24,000	NA
MW-103A	08/15/11	<50	<50	<50	<50	<50	<50	**78**	**230**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	35,000	NA
MW-103A	10/04/11	<100	<100	<100	<100	<100	<100	<100	**160**	<100	100	<100	<100	<100	<500	<100	<100	<100	<500	<500	<100	<100	<100	<100	<300	<100	<500	<100	<500	31,000	NA
MW-103A	05/16/12	<20	<20	<20	<20	<20	<20	<20	**200**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	17,000	NA
MW-103A	11/07/12	<50	<50	<50	<50	<50	<50	**79**	**180**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	36,000	NA
MW-103A	05/08/13	<1.0	<1.0	1.9	**1.6**	<1.0	**1.5**	**40**	**190**	<1.0	<1.0	**8**	4.9	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	4	<3.0	<1.0	<5.0	<1.0	100	23,000	NA
MW-103A	10/22/13	<20	<20	<20	<20	<20	<20	**26**	**170**	<20	<20	<10	<20	<20	<100	<20	<10	<20	<100	<100	<20	<20	<20	12	<30	<20	<40	<20	<100	15,000	NA
MW-103A	04/29/14	<20	<20	<20	<20	<20	<20	**33**	**130**	<20	<20	**7.6**	<20	<100	<100	<10	<10	<20	<100	<100	<20	<20	<20	<10	<30	<20	<40	<20	<100	18,000	NA
MW-103A	11/13/14	<50	<50	<50	<50	<50	<50	**43**	**140**	<50	<50	<25	<50	<250	<250	<25	<25	<50	<250	<250	<50	<50	<50	<25	<50	<50	<100	<50	<250	21,000	NA
MW-103A	04/14/15	<50	<50	<50	<50	<50	<50	<25	**140**	<50	<50	<25	<50	<250	<250	<25	<25	<50	<250	<250	<50	<50	<50	18 J	<50	<50	<100	<50	<250	12,000	NA
MW-103B	10/12/10	<50	<50	<50	<50	<50	<50	<50	**160**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	7,600	NA
MW-103B	12/02/10	<100	<100	<100	<100	<100	<100	<100	**230**	<100	<100	<100	<100	<100	<500	<100	<100	<100	<500	<500	<100	<100	<100	<100	<300	<100	<500	<100	<500	7,200	NA
MW-103B	01/25/11	<50	<50	<50	<50	<50	<50	<50	**160**	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	4,600	NA
MW-103B	04/20/11	<20	<20	<20	<20	<20	<20	**32**	**210**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	9,400	NA
MW-103B DUP	04/20/11	<20	<20	<20	<20	<20	<20	**38**	**210**	<20	<20	**11**	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	13,000	NA
MW-103B	08/15/11	<20	<20	<20	<20	<20	<20	**36**	**170**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	14,000	NA
MW-103B	10/04/11	<20	<20	<20	<20	<20	<20	**41**	**180**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	15,000	NA
MW-103B DUP	10/04/11	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50	<250	<250	<50	<50	<50	<50	<150	<50	<250	<50	<250	17,000	NA
MW-103B	05/17/12	<10	<10	<10	<10	<10	<10	<10	**250**	<10	<10	**14**	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	<10	<30	<10	<50	<10	<50	8,600	NA
MW-103B DUP	05/17/12	<20	<20	<20	<20	<20	<20	**20**	**220**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	6,700	NA
MW-103B	11/07/12	<10	<10	<10	<10	<10	<10	**63**	**170**	<10	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	7.5	<30	<10	<50	<10	<50	16,000	NA
MW-103B	05/08/13	<1.0	<1.0	1.6	**1.9**	<1.0	<1.0	**35**	**160**	<1.0	<1.0	**7.5**	2.7	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	2.5	<3.0	<1.0	<5.0	<1.0	80	15,000	NA
MW-103B DUP	05/08/13	<1.0	<1.0	1.7	**1.9**	<1.0	<1.0	**36**	**160**	<1.0	<1.0	**8**	2.7	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	2.7	<3.0	<1.0	<5.0	<1.0	80	14,000	NA
MW-103B	10/22/13	<10	<10	<10	<10	<10	<10	**22**	**160**	<10	<10	**11**	<10	<10	<50	<5.0	<5.0	<10	<50	<50	<10	<10	<10	3.5 J	<15	<10	<20	<10	<50	10,000	NA
MW-103B DUP	10/22/13	<10	<10	<10	<10	<10	<10	**22**	**170**	<10	<10	**12**	<10	<10	<50	<5.0	<5.0	<10	<50	<50	<10	<10	<10	3.6 J	<15	<10	<20	<10	<50	10,000	NA
MW-103B	04/29/14	<10	<10	<10	<10	<10	<10	**16**	**140**	<10	<10	**10**	<10	<50	<50	<5.0	<5.0	<10	<50	<50	<10	<10	<10	<5.0	<15	<10	<20	<10	<50	7,300	NA
MW-103B	11/13/14	<20	<20	<20	<20	<20	<20	**16**	**160**	<20	<20	<10	<20	<100	<100	<10	<10	<20	<100	<100	<20	<20	<20	8.2 J	<20	<20	<40	<20	<100	6,900	NA
MW-103B	04/14/15	<1.0	<1.0	2.2	**1.9**	<1.0	<1.0	**8.1**	**150**	0.72 J	<1.0	**13**	0.64 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<2.0	<1.0	<5.0	3,000	NA
MW-103C	10/12/10	<10	<10	<10	<10	<10	<10	**27**	**240**	<10	19	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	<10	<30	<10	<50	<10	<50	4,400	NA
MW-103C	12/02/10	<100	<100	<100	<100	<100	<100	<100	**260**	<100	<100	<100	<100	<100	<500	<100	<100	<100	<500	<500	<100	<100	<100	<100	<300	<100	<500	<100	<500	7,600	NA
MW-103C	01/25/11	<10	<10	<10	<10	<10	<10	**43**	**310**	<10	<10	**10**	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	<10	<30	<10	<50	<10	<50	6,900	NA
MW-103C	04/20/11	<20	<20	<20	<20	<20	<20	**49**	**310**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	8,200	NA
MW-103C	08/15/11	<20	<20	<20	<20	<20	<20	**40**	**270**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	11,000	NA
MW-103C	10/04/11	<20	<20	<20	<20	<20	<20	**41**	**270**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	10,000	NA
MW-103C	05/16/12	<20	<20	<20	<20	<20	<20	**59**	**280**	<20	<20	<20	<20	<20	<100	<20	<20	<20	<100	<100	<20	<20	<20	<20	<60	<20	<100	<20	<100	14,000	NA
MW-103C	11/07/12	<10	<10	<10	<10	<10	<10	**44**	**210**	<10	<10	**7.9**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<30	<10	<10	<10	<50	9,400	NA
MW-103C	05/08/13	<1.0	<1.0	2.2	**3.1**	<1.0	<1.0	**68**	**300**	<1.0	<1.0	**8.9**	3.9	<1.0	18	<1.0	<1.0	<1.0	8	<1.0	<1.0	<1.0	<1.0	1.4	<3.0	<1.0	<5.0	<1.0	110	13,000	NA
MW-103C	10/22/13	<20	<20	<20	<20	<20	<20	**56**	**290**	<20	<20	<10	<20	<20	<100	<10	<10	<20	<100	<100	<20	<20	<20	<10	<15	<20	<40	<20	<100	11,000	NA
MW-103C	04/29/14	<20	<20	<20	<20	<20	<20	**65**	**310**	<20	<20	**10**	<20	<100	<100	<10	<10	<20	<100	<100	<20	<20	<20	<10	<30	<20	<40	<20	<100	13,000	NA
MW-103C	11/13/14	<20	<20	<20	<20	<20	<20	**28**	**200**	<20	<20	<10	<20	<100	<100	<10	<10	<20	<100	<100	<20	<20	<20	<10	<20	<20	<40	<20	<100	8,000	NA
MW-103C	04/14/15	<20	<20	<20	<20	<20	<20	**20**	**150**	<20	<20	**11**	<20	<100	<100	<10	<10	<20	<100	<100	<20	<20	<20	7.1 J	<20	<20	<40	<20	<100	7,900	NA
MW-104A	10/12/10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**740**	<5.0	5.3	**19**	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	<5.0	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	780	NA
MW-104A	04/20/11	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	2.2	**600**	2.4	<2.0	**9.4**	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	<10	910	NA
MW-104A	10/04/11	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	1.9	**440**	1.9	<1.0	**8.4**	1.1	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	650	NA
MW-104A	05/16/12	<2.0	<2.0	<2.0	**3.2**	<2.0	<2.0	<2.0	**470**	2.2	<2.0	**9.3**	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	<10	950	NA
MW-104A	11/07/12	<1.0	<1.0	1.6	**2**	<1.0	<1.0	1.5	**340**	1.4	1.1	**4.9**	1	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	730	NA

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		**200**	**0.6**	**6**	**0.4**	**3000**	**0.7**	**3**	**70**	**100**	**350**	**0.03**	**70**	**5**	**6000**	**1**	**600**	**70**	**4000**	**100**	**20**	**6**	**70**	**600**	**500**	**400**	**88**	**2000**	**1000**	**200000**	**3**
MW-104A Dup	11/07/12	<1.0	<1.0	1.6	**2.1**	<1.0	<1.0	1.6	**360**	1.4	1.1	**5.1**	1.1	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	740	NA
MW-104A	05/08/13	<1.0	<1.0	1.5	**2**	<1.0	<1.0	1.8	**300**	1.5	1.8	**6.6**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	91	660	NA
MW-104A	10/22/13	<1.0	<1.0	1.6	**1.9**	3	<1.0	1.4	32	1.7	<1.0	**7.9**	1	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<5.0	<1.0	<5.0	47	NA
MW-104A	04/28/14	<1.0	<1.0	1.9	**2.1**	<1.0	<1.0	1.7	**400**	1.9	<1.0	**21**	0.77 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	500	NA
MW-104A Dup-01	04/28/14	<2.0	<2.0	1.9 J	<2.0	<2.0	<2.0	1.9	**450**	1.9 J	<2.0	**20**	<2.0	<10	<10	<1.0	<1.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<1.0	<3.0	<2.0	<4	<2.0	<10	540	NA
MW-104A	11/13/14	<2.0	<2.0	1.8 J	**1.9 J**	<2.0	<2.0	1.7	**390**	1.7 J	<2.0	**15**	<2.0	<10	<10	<1.0	<1.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<4.0	<2.0	<10	610	NA
MW-104A	04/14/15	<1.0	<1.0	2	**2.1**	<1.0	<1.0	1.5	**370**	1.8	<1.0	**25**	0.81 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.49 J	<1.0	<1.0	<2.0	<1.0	<5.0	390	NA
MW-104B	10/12/10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**15**	67	<5.0	18	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	<5.0	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	1,100	NA
MW-104B	04/20/11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**13**	44	<5.0	9.2	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	9.2	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	2,800	NA
MW-104B	10/04/11	<10	<10	<10	<10	<10	<10	<10	35	<10	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50	<10	<10	<10	<10	<30	<10	<50	<10	<50	2,500	NA
MW-104B	05/16/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**11**	32	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	5.1	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	<10	1,100	NA
MW-104B	11/07/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.8**	26	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	5.1	<2.0	<2.0	<2.0	<6	<2.0	<10	2.1	<10	2,000	NA
MW-104B	05/08/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.8**	24	<1.0	15	<1.0	1.4	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	3.7	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	11	<5.0	2,900	NA
MW-104B	10/22/13	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.2**	25	<5.0	<5.0	<2.5	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	2.9 J	<5.0	<5.0	<2.5	< 7.5	<5.0	<10	<50	<25	1,700	NA
MW-104B	04/28/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.1**	30	<1.0	<1.0	**1.3**	<5.0	<5.0	10	<0.50	<0.50	<1.0	<5.0	<5.0	4.1	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	1.1	<5.0	880	NA
MW-104B	11/13/14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.3**	24	<5.0	<5.0	**2 J**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<10	<5.0	<25	1,600	NA
MW-104B	04/14/15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.6**	29	<2.0	<2.0	**1.3**	<2.0	<10	<10	<1.0	<1.0	<2.0	<10	<10	2	<2.0	<2.0	0.91 J	<2.0	<2.0	<4.0	<2.0	<10	610	NA
MW-104C	10/12/10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	**110**	<5.0	19	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	6	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	1,600	NA
MW-104C	04/20/11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**13**	**100**	<5.0	7.7	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	7.4	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	2,200	NA
MW-104C	10/04/11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**13**	**87**	<2.0	<2.0	<2.0	3.8	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	9.6	<2.0	<2.0	<2.0	<6	<2.0	<10	<2.0	<10	2,400	NA
MW-104C	05/16/12	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**9.8**	65	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<25	<25	7.6	<5.0	<5.0	<5.0	<15	<5.0	<25	<5.0	<25	2,800	NA
MW-104C	11/07/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.8**	55	<2.0	<2.0	<2.0	2.1	<2.0	<10	<2.0	<2.0	<2.0	<10	<10	5.8	<2.0	<2.0	<2.0	<6	<2.0	<10	2.6	<10	1,500	NA
MW-104C	05/08/13	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	**9.6**	**130**	<1.0	12	<1.0	1.9	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	3.3	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	16	1,800	NA
MW-104C	10/22/13	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.8**	51	<5.0	<5.0	<2.5	<5.0	<5.0	<25	<2.5	<2.5	<5.0	<25	<25	3.9 J	<5.0	<5.0	<2.5	< 7.5	<5.0	<10	<5.0	<50	2,700	NA
MW-104C	04/29/14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7**	52	<5.0	<5.0	**2.1**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	4.1	<5.0	<5.0	<2.5	< 7.5	<5.0	<10	<5.0	<25	2,000	NA
MW-104C	11/13/14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**8**	54	<5.0	<5.0	**2.6**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	3.9 J	<5.0	<5.0	<2.5	<5.0	<5.0	<10	<5.0	<25	20,000	NA
MW-104C (LOW FLOW)	04/14/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**5.1**	43	<5.0	<5.0	**2.1 J**	<5.0	<25	<25	<2.5	<2.5	<5.0	<25	<25	3.6 J	<5.0	<5.0	1.9 J	<5.0	<5.0	<10	<5.0	<25	1,300	NA
MW-104C (PDB)	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.5**	53	<1.0	<1.0	**1.4**	1.7	<5.0	<5.0	0.54	<0.50	<1.0	<5.0	<5.0	4.2	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	1,800	<20
MW-105C	10/12/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-105C	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<1.0	NA
MW-105C	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<1.0	NA
MW-105C	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-105C	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-105C	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	2.1	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	1	<3.0	<1.0	<5.0	<1.0	<5.0	9.8	NA
MW-105C	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	0.5 J	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-105C	04/28/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	0.69 J	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-105C	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	0.74 J	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-105C	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	5.6	<0.50	<0.50	<1.0	<5.0	<5.0	0.89 J	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-10B	10/11/10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	67	<5.0	9.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15	<5.0	<5.0	<5.0	<25	580	NA
MW-10B	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	40	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.8	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	490	NA
MW-10B	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	18	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.5	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	140	NA
MW-10B	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	31	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	420	NA
MW-10B	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	18	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	2.4	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	190	NA
MW-10B	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	16	<1.0	3.2	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.4	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	230	NA
MW-10B	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	24	<1.0	<1.0	<0.50	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	0.8 J	<1.0	<1.0	<0.50	<1.5	<1.0	<5.0	<1.0	<5.0	340	NA
MW-10B	04/29/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	25	<1.0	<1.0	**0.97**	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.6	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	380	NA
MW-10B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	17	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	0.36 J	<1.0	<1.0	<2.0	<1.0	<5.0	230	NA
MW-10B	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	15	<1.0	<1.0	**0.52**	0.74 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	2.3	<1.0	<1.0	0.31 J	<1.0	<1.0	<2.0	<1.0	<5.0	180	NA
MW-10D	10/11/10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**110**	<5.0	13	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15	<5.0	<5.0	<5.0	<25	830	NA

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		**200**	**0.6**	**6**	**0.4**	**3000**	**0.7**	**3**	**70**	**100**	**350**	**0.03**	**70**	**5**	**6000**	**1**	**600**	**70**	**4000**	**100**	**20**	**6**	**70**	**600**	**500**	**400**	**88**	**2000**	**1000**	**200000**	**3**
MW-10D	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	46	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	2.7	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	470	NA
MW-10D	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	27	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.7	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	180	NA
MW-10D	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	48	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	750	NA
MW-10D	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	17	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.9	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	150	NA
MW-10D	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	<1.0	1.2	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.6	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	96	NA
MW-10D	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	30	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	460	NA
MW-10D	04/29/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	67	<1.0	<1.0	2.7	0.89 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	970	NA
MW-10D	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	28	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	2.1	<1.0	<1.0	1.3	<1.0	<1.0	<2.0	<1.0	<5.0	290	NA
MW-10D Dup	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	26	<1.0	<1.0	0.6	0.52 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.3	<1.0	<1.0	0.69	<1.0	<1.0	<2.0	<1.0	<5.0	330	NA
MW-10D	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	64	<1.0	<1.0	3	0.83 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	0.3 J	<1.0	<1.0	<2.0	<1.0	<5.0	700	NA
MW-16B	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.5	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	44	NA
MW-16B	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	18	NA
MW-16B	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	22	NA
MW-16B	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	33	NA
MW-16B	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	6.9	NA
MW-16B	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	27	NA
MW-16B	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.4 J	2	<1.0	<1.0	<0.50	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	0.8 J	<1.0	<1.0	<1.0	<1.5	<1.0	<5.0	<1.0	<5.0	24	NA
MW-16B	04/28/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.53	2.5	<1.0	<1.0	<0.50	0.58 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	30	NA
MW-16B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.46 J	<1.0	<1.0	<2.0	<1.0	<5.0	12	NA
MW-16B	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.51	2.5	<1.0	<1.0	<0.50	0.96 J	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.4	<1.0	<1.0	0.34 J	<1.0	<1.0	<2.0	<1.0	<5.0	22	NA
MW-16D	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-16D	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<1.0	NA
MW-16D	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<1.0	NA
MW-16D	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-16D	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	5.2	NA
MW-16D	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-16D	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	6.5	NA
MW-16D	04/28/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	10	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	9	NA
MW-16D	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	5.5	<1.0	<1.0	<0.50	<1.0	0.69 J	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.37 J	<1.0	<1.0	<2.0	<1.0	0.39 J	35	NA
MW-16D	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.9	<1.0	<1.0	<0.50	<1.0	<5.0	21	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.33 J	<1.0	<1.0	<2.0	<1.0	<5.0	27	NA
MW-18B	10/12/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-18B	10/03/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	68	NA
MW-18B	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-18B	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-18B	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.32 J	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-18B	04/16/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<1.0
MW-18D	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	15	<1.0	1.9	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	190	NA
MW-18D	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	150	NA
MW-18D	10/03/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.3	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	120	NA
MW-18D	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.9	7.9	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1.3	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	100	NA
MW-18D	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	110	NA
MW-18D	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.7	<1.0	1.1	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	1	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	140	NA
MW-18D	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.7	9.4	<1.0	<1.0	<0.50	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	110	NA
MW-18D	04/29/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.87	9.5	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	110	NA
MW-18D	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.87	12	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<2.0	<1.0	<5.0	130	NA
MW-18D	04/16/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.68	10	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	92	<1.0
MW-19B	10/12/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-19B	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-19B	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA

Table 3-1: Volatile Organic Compound Analytical Results in Groundwater: October 2010 to April 2015

Chemical Name**		Chlorinated Ethanes (µg/L)					Chlorinated Ethenes (µg/L)						Chlorinated Methanes (µg/L)		Other Compounds (µg/L)																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroethane	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene[a]	Vinyl Chloride	Chloroform	Methylene Chloride	Acetone	Benzene	Ethyl-benzene	Isopropyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone	Methyl tert Butyl Ether (MTBE)*	Naphthalene	Styrene	Toluene	Xylenes	1,2,4-Trimethylbenzene	Vinyl Acetate	Freon-11 (Trichlorofluoromethane)	Freon-12 (Dichlorodifluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	1,4-Dioxane
2L Standard (µg/L)		**200**	**0.6**	**6**	**0.4**	**3000**	**0.7**	**3**	**70**	**100**	**350**	**0.03**	**70**	**5**	**6000**	**1**	**600**	**70**	**4000**	**100**	**20**	**6**	**70**	**600**	**500**	**400**	**88**	**2000**	**1000**	**200000**	**3**
MW-19B	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-19B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.33 J	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-19D	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.6**	51	<1.0	2.1	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	2	<5.0	310	NA
MW-19D	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.3**	66	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	2	<5.0	650	NA
MW-19D DUP	04/19/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.4**	66	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	2.2	<5.0	610	NA
MW-19D	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.6**	58	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	340	NA
MW-19D DUP	10/04/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.8**	63	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	1.4	<5.0	340	NA
MW-19D	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.7**	63	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	240	NA
MW-19D DUP	05/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.6**	65	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	290	NA
MW-19D	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.4**	60	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	190	NA
MW-19D	05/07/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	**76**	<1.0	<1.0	<1.0	<1.0	2	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	13	180	NA
MW-19D	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	68	<1.0	<1.0	**0.8**	<1.0	<5.0	<5.0	0.5	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	150	NA
MW-19D	04/28/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	62	<1.0	<1.0	**0.8**	<1.0	<5.0	<5.0	0.36 J	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.5	<1.0	<2.0	<1.0	<5.0	130	NA
MW-19D	11/11/14	<1.0	<1.0	<1.0	0.48 J	<1.0	<1.0	2.3	64	<1.0	<1.0	**1**	<1.0	<5.0	<5.0	0.49 J	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.34 J	<1.0	<1.0	<2.0	<1.0	15	170	NA
MW-19D	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	**78**	<1.0	<1.0	**1.1**	<1.0	<5.0	<5.0	0.54	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	200	<2.0
MW-20B	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20B	10/03/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	13	NA
MW-20B	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20B	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	0.4 J	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20B	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-20B	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-20D	10/11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20D	10/03/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20D	11/06/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.6	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<5.0	<5.0	NA
MW-20D	10/22/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.4 J	0.7 J	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.5	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.5	<1.0	<5.0	<1.0	<5.0	0.6 J	NA
MW-20D	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.49 J	0.68 J	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.35 J	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA
MW-20D	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	0.47 J	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	NA

* During April 2011 sampling event, matrix spike duplicate (MSD) exceeded the control limits, though the associated laboratory control spike and matrix spike recovery met acceptance criteria. The relative percent difference (RPD) value was outside of quality control criteria.
** Only those VOCs detected in one or more wells during the October 2010 through April 2015 sampling events are listed in this table.
2L Standard: North Carolina Administrative Code (15A NCAC) Subchapter 2L Groundwater Standards (updates effective April 1, 2013)
µg/L: micrograms per liter
[a] The NCDENR approved a change to the 2L Standard for 1,1-DCE , to increase from 7 ug/L to 350 ug/L, in January 10, 2013. The final 2L standard 2013 updates are dated April 1, 2013.
Bold and Shaded: Constituent concentration reported above the NCAC 2L Groundwater Standard (current 2L updates dated April 1, 2013)

Appendix A

Groundwater Sampling Records (Apr. 2015)

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-15-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-100A
Total Depth (ft)[1]: 30
Depth to Water (ft): 4.49
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly / Silicon
Pump Intake Depth (ft): 22
Start/Stop Purge Time: 930/1015
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L): 3.0

Sample Collection Time: 1015
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-100A
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, TOC, SVOCs

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
945	16.77	0.800	2.56	5.72	-133	0.0	0.5	4.55	
950	16.67	0.814	1.52	5.71	-147	0.0	1.0	4.57	
955	16.55	0.822	1.15	5.70	-155	0.0	1.5	4.59	
1000	16.41	0.835	0.44	5.67	-160	0.0	2.0	4.63	
1005	16.24	0.844	0.38	5.69	-165	0.0	2.5	4.64	
1010	16.68	0.850	0.38	5.68	-168	0.0	3.0	4.65	
1015 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-15-15
Site/Location: Laurinburg, NC
Sampler's Name: A.NEAL

Well ID: MW-100B
Pump Type/Model: Peristaltic
Sample Collection Time: 1145
Total Depth (ft)[1]: 45
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 5.80
Pump Intake Depth (ft): 35
Sample ID: MW-100B
Well Diameter (in): 2
Start/Stop Purge Time: 1100/1145
QA/QC Collected? YES
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. 042015-GW-DUP02 ~~x~~ only for VOCs, 1,4-dioxane, SVOCs
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.0
Laboratory Analyses: VOCs, 1,4-dioxane, TOC, Alk, MEE, SVOCs
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1115	15.75	1.04	0.46	5.62	-114	1.2	0.5	5.83	
1120	15.71	1.05	0.27	5.64	-123	4.0	1.0	5.85	
1125	15.70	1.05	0.26	5.63	-125	3.1	1.5	5.85	
1130	15.69	1.06	0.21	5.66	-141	4.4	2.0	5.85	
1135	15.68	1.06	0.19	5.62	-142	4.6	2.5	5.85	
1140	15.68	1.06	0.18	5.62	-144	3.9	3.0	5.85	
1145 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

A Dup 2 = "042015-GW-Dup 02"

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-15-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-101A
Pump Type/Model: Peristaltic
Sample Collection Time: 830
Total Depth (ft)[1]: 30
Tubing Material: Poly / Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 5.88
Pump Intake Depth (ft): 20
Sample ID: MW-101A
Well Diameter (in): 2
Start/Stop Purge Time: 800 / 830
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, TOC, SVOCs
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
805	18.03	0.057	1.09	5.20	-80	2.1	0.5	5.94	
810	17.83	0.058	0.70	5.19	-87	1.7	1.0	5.96	
815	17.81	0.058	0.69	5.19	-87	1.4	1.5	5.97	
820	17.80	0.058	0.68	5.19	-88	1.4	2.0	5.99	
825	17.71	0.058	0.69	5.17	-89	1.6	2.5		
830	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs | Project No.: 277899 | Sampling Date: 4-14-15

Site/Location: Laurinburg, NC | Sampler's Name: A.NEAL

Well ID: MW-101B | Pump Type/Model: Peristaltic | Sample Collection Time: 1150

Total Depth (ft)[1]: 45 | Tubing Material: Poly/Silicon | Sample Purge Rate (L/min)[3]: 0.1

Depth to Water (ft): 5.68 | Pump Intake Depth (ft): 38 | Sample ID: MW-101B

Well Diameter (in): 2 | Start/Stop Purge Time: 1115/1150 | QA/QC Collected? NO

Well Volume (gal) = $0.041d^2h$: | Purge Rate (L/min)[2]: 0.1 | QA/QC I.D. NA

d = well diameter (inches) h = length of water column (feet) | Total Purge Volume (L): 3.0 | Laboratory Analyses: VOCs, 1,4-dioxane, TOC, Alk, MEE, sVOCs+10 TICs

Well Condition: Good | Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1120	21.65	0.113	0.93	6.95	-140	1.4	0.5	5.69	
1125	21.66	0.116	0.63	6.93	-146	1.4	1.0	5.70	
1130	21.67	0.117	0.55	6.98	-146	1.6	1.5	5.70	
1135	21.71	0.122	0.50	7.04	-151	0.5	2.0	5.70	
1140	21.78	0.115	0.45	7.14	-151	0.4	2.5	5.70	
1145	21.82	0.114	0.44	7.13	-48	0.0	3.0	5.70	
1150	— SAMPLE	TIME							
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: A.NEAL

Well ID: ~~10~~ MW-102A
Pump Type/Model: Peristaltic
Sample Collection Time: 905
Total Depth (ft)[1]: 30
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 5.62
Pump Intake Depth (ft): ~~18~~ 23
Sample ID: MW-102A
Well Diameter (in): 2
Start/Stop Purge Time: 835/905
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, TOC
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
840	19.72	0.084	1.05	5.12	-154	0.0	0.5	5.66	
845	19.65	0.086	0.90	5.12	-156	0.3	1.0	5.69	
850	19.66	0.084	0.90	5.09	-155	2.7	1.5	5.70	
855	19.74	0.085	0.84	5.05	-149	0.8	2.0	5.71	
900	19.75	0.085	0.83	5.11	-157	0.8	2.5	5.71	
905 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: A-NEAL

Well ID: MW-102B
Pump Type/Model: Peristaltic
Sample Collection Time: 1000
Total Depth (ft)[1]: 45
Tubing Material: Poly / Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.90
Pump Intake Depth (ft): 40
Sample ID: MW-102B
Well Diameter (in): 2
Start/Stop Purge Time: 930 / 1000
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, TOC, Alk, MEE
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
935	20.57	0.197	1.62	6.17	-192	0.0	0.5	6.99	
940	20.59	0.197	1.52	6.17	-194	0.0	1.0	7.04	
945	20.61	0.197	1.33	6.17	-200	0.0	1.5	7.08	
950	20.67	0.199	0.74	6.17	-202	0.0	2.0	7.09	
955	20.68	0.199	0.74	6.17	-199	0.0	2.5	7.08	
1000 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: A. Neal

Well ID: MW-102C
Total Depth (ft)[1]: 65
Depth to Water (ft): 6.41
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly / Silicone
Pump Intake Depth (ft): ~55
Start/Stop Purge Time: 1010 / 1040
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L): 2.5

Sample Collection Time: 1040
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-102C (low flow)
QA/QC Collected? No
QA/QC I.D. NA
Laboratory Analyses: VOCs, TOC, Alk

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1010	19.61	0.436	1.81	4.97	-66	262	0.5	6.41	
1015	19.54	0.432	0.99	4.98	-72	76.2	1.0	6.41	
1020	19.40	0.429	0.47	5.02	-95	75.7	1.5	6.42	
1025	19.75	0.428	0.49	5.10	-119	68.2	2.0	6.42	
1030	19.84	0.426	0.45	5.06	-118	68.7	2.5	6.42	
1040 – SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

* MW-102C (PDB) collected 4-14-15 @ 830

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs | Project No.: 277899 | Sampling Date: 4/14/15

Site/Location: Laurinburg, NC | Sampler's Name: TOM NAUMANN

Well ID: MW-103A | Pump Type/Model: PERISTALTIC | Sample Collection Time: 1715

Total Depth (ft)[1]: 30 | Tubing Material: 0.17" x 0.25" LDPE | Sample Purge Rate (L/min)[3]: 0.1

Depth to Water (ft): 5.99 | Pump Intake Depth (ft): 25 | Sample ID: MW-103A

Well Diameter (in): 2 | Start/Stop Purge Time: 1625 1700 | QA/QC Collected? NO

Well Volume (gal) = $0.041d^2h$: | Purge Rate (L/min)[2]: 0.1 | QA/QC I.D. N/A

d = well diameter (inches) h = length of water column (feet) | Total Purge Volume (L): 3.5 | Laboratory Analyses: VOC'S

Well Condition: OK | Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)

☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1630	18.74	0.067	8.63	5.21	50	2.2	0.5	6.01	0.1 MICRO PURGE.
1635	18.66	0.071	7.73	4.95	86	1.4	1.0	6.02	
1640	18.64	0.082	6.80	5.24	27	1.3	1.5	6.02	
1645	18.62	0.091	6.84	5.57	16	1.2	2.0	6.02	
1650	18.62	0.098	6.86	5.81	-5	1.0	2.5	6.02	
1655	18.61	0.104	6.75	5.97	-37	1.0	3.0	6.02	
1700	18.61	0.108	6.88	6.02	-53	0.6	3.5	6.02	PARAMETERS STABLE.
1715	SAMPLE	TIME							
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/14/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom Naumann

Well ID: MW-103B
Pump Type/Model: PERISTALTIC
Sample Collection Time: 1430
Total Depth (ft)[1]: 45'
Tubing Material: 0.17x 0.25" LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 7.59
Pump Intake Depth (ft): 40'
Sample ID: MW-103B
Well Diameter (in): 2
Start/Stop Purge Time: 1345 1415
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.0
Laboratory Analyses: VOCs, ALKALINITY, MEE
Well Condition: GOOD
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1350	19.26	0.148	10.14	6.52	-146	2.2	0.5	7.63	0.1 L/MIN. MICRO PURGE.
1355	19.21	0.148	8.70	6.52	-146	2.0	1.0	7.64	
1400	19.15	0.148	8.07	6.51	-147	2.0	1.5	7.65	
1405	19.10	0.148	7.26	6.51	-148	2.0	2.0	7.65	
1410	19.08	0.148	6.91	6.50	-148	2.0	2.5	7.65	
1415	19.05	0.148	7.01	6.50	-148	2.1	3.0	7.65	PARAMETERS STABLE
1430	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/14/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom NAUMANN

Well ID: MW-103C
Pump Type/Model: PERISTALTIC
Sample Collection Time: 1530
Total Depth (ft)[1]: 65'
Tubing Material: 0.17" x 0.25" LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 8.32
Pump Intake Depth (ft): 60'
Sample ID: MW-103C
Well Diameter (in): 2
Start/Stop Purge Time: 1450 1525
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.5
Laboratory Analyses: VOC'S, ALKALINITY
Well Condition: GOOD
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L) 0.5	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1455	24.43	0.115	8.51	6.20	-107	0.7	~~8.350.1~~	8.35	0.1L/min- MICROPURGE.
1500	23.80	0.119	7.58	6.21	-155	0.6	1.0	8.35	
1505	23.61	0.122	7.21	6.19	-217	0.4	1.5	8.35	
1510	23.29	0.120	6.95	6.19	-217	0.5	2.0	8.35	
1515	21.43	0.117	6.88	6.18	-221	0.4	2.5	8.35	
1520	21.18	0.116	6.90	6.18	-222	0.6	3.0	8.35	
1525	20.90	0.116	6.93	6.18	-223	0.7	3.5	8.35	PARAMETERS STABLE
1530	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling; to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-104A
Pump Type/Model: Peristaltic
Sample Collection Time: 1430
Total Depth (ft)[1]: 14
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.08
Pump Intake Depth (ft): 10'
Sample ID: MW-104A
Well Diameter (in): 2
Start/Stop Purge Time: 1355/1430
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NONE
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs
Well Condition: Good

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1400	21.88	0.123	1.69	5.19	111	0.0	0.5	6.10	
1405	21.69	0.112	1.62	5.16	101	0.0	1.0	6.11	
1410	21.46	0.113	1.59	5.14	105	0.0	1.5	6.11	
1415	20.75	0.113	1.47	5.12	116	0.3	2.0	6.11	
1420	20.56	0.114	1.46	5.12	114	0.5	2.5	6.11	
1430 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-104B
Pump Type/Model: Peristaltic
Sample Collection Time: 1575
Total Depth (ft)[1]: 45
Tubing Material: Poly / Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 7.05
Pump Intake Depth (ft): 37
Sample ID: MW-104B
Well Diameter (in): 2
Start/Stop Purge Time: 1440 / 1575
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NONE
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, VOC 10 TICs
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1445	19.58	0.075	0.63	4.81	116	0.0	0.5	7.09	
1450	19.33	0.076	0.73	4.79	140	0.0	1.0	7.11	
1455	19.24	0.076	0.79	4.81	144	0.0	1.5	7.11	
1500	19.17	0.076	0.70	4.80	146	0.0	2.0	7.11	
1505	19.08	0.077	0.68	4.79	149	0.0	2.5	7.11	
1515 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-14-15
Site/Location: Laurinburg, NC
Sampler's Name: ANEAC

Well ID: MW-104C
Pump Type/Model: Peristaltic
Sample Collection Time: 1620
Total Depth (ft)[1]: 73.5
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 8.25
Pump Intake Depth (ft): 65'
Sample ID: MW-104C (low flow)
Well Diameter (in): 2
Start/Stop Purge Time: 1540/1620
QA/QC Collected? No
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.0
Laboratory Analyses: VOCs
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1545	18.40	0.102	0.97	5.50	106	4.2	0.5	8.25	
1550	18.36	0.103	0.77	5.48	111	2.8	1.0	8.25	
1555	18.32	0.104	0.67	5.47	114	2.6	1.5	8.25	
1600	18.27	0.103	0.63	5.47	114	2.3	2.0	8.25	
1605	18.26	0.103	0.67	5.47	113	2.3	2.5	8.25	
1610	18.22	0.103	0.65	5.48	116	1.9	3.0	8.25	
1620 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs | Project No.: 277899 | Sampling Date: 4/13/15

Site/Location: Laurinburg, NC | Sampler's Name: TOM NAUMANN

Well ID: MW-105C | Pump Type/Model: PERISTALTIC | Sample Collection Time: 1600

Total Depth (ft)[1]: ~~68~~ 64 | Tubing Material: 0.17" x 0.25" LDPE | Sample Purge Rate (L/min)[3]: 0.1

Depth to Water (ft): 12.25 | Pump Intake Depth (ft): 59' | Sample ID: MW-105C

Well Diameter (in): 2 | Start/Stop Purge Time: 1525 1555 | QA/QC Collected? NO

Well Volume (gal) = $0.041d^2h$: | Purge Rate (L/min)[2]: 0.1 | QA/QC I.D. N/A

d = well diameter (inches) h = length of water column (feet) | Total Purge Volume (L): 3.0 L | Laboratory Analyses: VOCs

Well Condition: GOOD | Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1530	23.68	0.079	~~0.079~~ 4.62	5.02	~~4.78~~ 327	7.4	0.5	12.35	0.1L/min MICROPURGE METHOD, LOWEST PUMP SETTING.
1535	23.27	0.067	4.01	4.99	331	7.7	1.0	12.37	
1540	23.23	0.064	4.02	5.00	333	8.3	1.5	12.39	
1545	23.19	0.058	3.90	4.99	335	6.8	2.0	12.40	
1550	23.16	0.057	3.67	4.98	336	6.0	2.5	12.41	
1555	23.18	0.057	3.73	4.98	336	5.6	3.0	12.41	PARAMETERS STABLE
1600	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs | Project No.: 277899 | Sampling Date: 4/14/15

Site/Location: Laurinburg, NC | Sampler's Name: Tom NAUMANN

Well ID: MW-10B | Pump Type/Model: PERISTALTIC | Sample Collection Time: 1030

Total Depth (ft)[1]: 26.5 | Tubing Material: 0.17" x 0.25" LDPE | Sample Purge Rate (L/min)[3]: 0.1

Depth to Water (ft): 4.97 | Pump Intake Depth (ft): 21.5 | Sample ID: MW-10B

Well Diameter (in): 2 | Start/Stop Purge Time: 0950 1020 | QA/QC Collected? YES

Well Volume (gal) = $0.041d^2h$: | Purge Rate (L/min)[2]: 0.1 | QA/QC I.D. 042015-GW-DUP001

d = well diameter (inches) h = length of water column (feet) | Total Purge Volume (L): 2.5 | Laboratory Analyses: VOC's

Well Condition: | Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0955	21.28	0.049	5.49	5.16	257	2.7	0.5	5.01	
1000	21.27	0.048	5.58	5.15	249	2.8	1.0	5.02	
1010	21.25	0.047	5.66	5.14	248	2.4	1.5	5.03	
1015	21.22	0.046	5.52	5.14	243	2.5	2.0	5.03	
1020	21.18	0.046	5.45	5.14	240	2.6	2.5	5.03	PARAMETERS STABLE
1030	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/14/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom Naumann

Well ID: MW-10D
Pump Type/Model: PERISTALTIC
Sample Collection Time: 0915
Total Depth (ft)[1]: 40
Tubing Material: 0.17" x 0.25" LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.70
Pump Intake Depth (ft): 35'
Sample ID: MW-10D
Well Diameter (in): 2
Start/Stop Purge Time: 0840 0910
QA/QC Collected? No
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.0
Laboratory Analyses: VOCs
Well Condition: Good.
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0845	20.83	0.062	6.09	5.09	168	9.0	0.5	6.73	0.1 L/min MICRO PURGE
0850	20.72	0.060	6.01	5.10	163	8.9	1.0	6.74	
0855	20.61	0.059	5.96	5.12	157	8.8	1.5	6.74	
0900	20.60	0.058	5.99	5.12	156	8.5	2.0	6.74	
0905	20.68	0.057	6.01	5.11	157	8.4	2.5	6.75	
0910	20.69	0.057	6.03	5.10	158	8.3	3.0	6.75	PARAMETERS STABLE
0915	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/14/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom Naumann

Well ID: MW-16B
Pump Type/Model: PERISTALTIC
Sample Collection Time: 1200
Total Depth (ft)[1]: 24.25
Tubing Material: 0.17" x 0.25" LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 4.70
Pump Intake Depth (ft): 20'
Sample ID: MW-16B
Well Diameter (in): 2
Start/Stop Purge Time: 1115 1145
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.0
Laboratory Analyses: VOC'S + TICS
Well Condition: GOOD
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1120	22.80	0.049	6.27	5.18	327	0.1	0.5	4.71	0.1 L/min MICRO PURGE.
1125	22.52	0.048	6.20	5.19	318	0.1	1.0	4.71	
1130	22.48	0.048	6.56	5.20	311	0.1	1.5	4.71	
1135	22.53	0.047	5.92	5.20	301	0.1	2.0	4.71	
1140	22.58	0.047	5.58	5.20	290	0.1	2.5	4.71	
1145	22.64	0.046	5.71	5.21	281	0.1	3.0	4.71	PARAMETERS STABLE
1200	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/14/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom Naumann

Well ID: MW-16D
Pump Type/Model: PDB - NO PUMP.
Sample Collection Time: 1045
Total Depth (ft)[1]: 71.5
Tubing Material:
Sample Purge Rate (L/min)[3]:
Depth to Water (ft):
Pump Intake Depth (ft):
Sample ID: MW-16D
Well Diameter (in):
Start/Stop Purge Time:
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]:
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L):
Laboratory Analyses: VOC'S + TICS
Well Condition:
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
									PDB IN WELL. NO PARAMETERS NECCESSARY.
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-16-15
Site/Location: Laurinburg, NC
Sampler's Name: A NEAL

Well ID: MW-18B
Pump Type/Model: Peristaltic
Sample Collection Time: 950
Total Depth (ft)[1]: 14.5
Tubing Material: Poly/silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.50
Pump Intake Depth (ft): 10
Sample ID: MW-18B
Well Diameter (in): 2
Start/Stop Purge Time: 915/950
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L):
Laboratory Analyses: VOCs, VOCs TICs, 1,4-dioxane
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
920	12.22	0.106	7.95	5.52	80	3.6	0.5	6.60	
925	12.34	0.107	6.57	5.66	82	2.9	1.0	6.65	
930	12.42	0.107	5.60	5.65	86	2.1	1.5	6.67	
935	12.47	0.106	5.60	5.66	86	1.7	2.0	6.68	
940	12.56	0.107	5.79	5.65	77	1.1	2.5	6.69	
950 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-16-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-18D
Pump Type/Model: Peristaltic
Sample Collection Time: 850
Total Depth (ft)[1]: 57.1
Tubing Material: Poly / Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 7.40
Pump Intake Depth (ft): 45.0
Sample ID: MW-18D
Well Diameter (in): 2
Start/Stop Purge Time: 820 / 850
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): ~~3.0~~ 2.5
Laboratory Analyses: VOCs, VOCs 10 TICs, 1,4-dioxane
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
825	11.04	0.079	2.56	5.03	58	1.0	0.5	7.45	
830	11.07	0.076	2.47	4.92	70	0.9	1.0	7.45	
835	11.34	0.072	2.12	4.76	110	0.7	1.5	7.45	
840	11.58	0.069	1.97	4.76	129	0.2	2.0	7.45	
845	11.76	0.067	1.86	4.73	143	0.7	2.5	7.45	
~~8~~							~~3.0~~		
850 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/13/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom NAUMANN

Well ID: MW-19D
Pump Type/Model: ~~PERISTALTIC~~ PDB 3X
Sample Collection Time: 1630
Total Depth (ft)[1]:
Tubing Material:
Sample Purge Rate (L/min)[3]:
Depth to Water (ft):
Pump Intake Depth (ft):
Sample ID: MW-19D
Well Diameter (in): 2
Start/Stop Purge Time:
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]:
QA/QC I.D.
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L):
Laboratory Analyses: VOC'S, TICS, 1-4 DIOX.
Well Condition:
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) PDB
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
									PDB SAMPLE. NO PARAMETERS.
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-13-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-20B
Pump Type/Model: Peristaltic
Sample Collection Time: 1530
Total Depth (ft)[1]: 27
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 3.80
Pump Intake Depth (ft): 20
Sample ID: MW-20B
Well Diameter (in): 2
Start/Stop Purge Time: 1500/1530
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, VOC 10 TICs (8260B)
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1505	23.47	0.078	4.13	4.64	109	0.0	0.5	3.80	
1510	22.95	0.062	2.17	4.50	137	0.0	1.0	3.80	
1515	22.69	0.061	1.99	4.51	146	0.0	1.5	3.80	
1520	22.45	0.061	1.86	4.52	149	0.0	2.0		
1525	22.23	0.061	1.73	4.55	162	0.0	2.5		
1530 – SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
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ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-13-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: MW-20D
Pump Type/Model: Peristaltic
Sample Collection Time: 1610
Total Depth (ft)[1]: 78
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.45
Pump Intake Depth (ft): 65
Sample ID: MW-20D
Well Diameter (in): 2
Start/Stop Purge Time: 1540/1610
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOCs, VOCs 10 TICs (8260B)
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1545	22.13	0.051	5.73	5.19	120	3.4	0.5	6.47	
1550	22.33	0.049	5.87	4.88	144	2.3	1.0	6.47	
1555	22.41	0.049	5.80	4.81	159	1.9	1.5	6.47	
1600	22.41	0.048	4.64	4.77	160	1.6	2.0	6.47	
1605	22.36	0.048	5.3	4.75	175	1.1	2.5	6.47	
1610 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
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(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
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ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4/13/15
Site/Location: Laurinburg, NC
Sampler's Name: Tom Nammann

Well ID: MW-21B
Pump Type/Model: PERISTALTIC
Sample Collection Time: 1730
Total Depth (ft)[1]: 25.0
Tubing Material: 0.17" x 0.25" LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 2.75
Pump Intake Depth (ft): 20'
Sample ID: MW-21B
Well Diameter (in): 2
Start/Stop Purge Time: 1700 1725
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. N/A
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: VOC'S + TICS
Well Condition: GOOD
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1705	23.33	0.048	5.11	4.91	369	0.5	0.5	2.79	0.1 L/MIN. MICROPURGE.
1710	22.80	0.048	4.80	4.90	374	0.8	1.0	2.79	
1715	22.74	0.048	4.53	4.90	375	1.6	1.5	2.79	
1720	22.65	0.047	4.58	4.89	377	0.7	2.0	2.79	
1725	22.57	0.047	4.62	4.89	378	0.3	2.5	2.79	PARAMETERS STABLE
1730	SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

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ERM

GROUND WATER SAMPLING LOG SHEET

Client: Abbott Labs
Project No.: 277899
Sampling Date: 4-13-15
Site/Location: Laurinburg, NC
Sampler's Name: A. NEAL

Well ID: FR-6D
Pump Type/Model: Peristaltic
Sample Collection Time: 1715
Total Depth (ft)[1]: 19.5
Tubing Material: Poly/Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 6.08
Pump Intake Depth (ft): 14
Sample ID: FR-6D
Well Diameter (in): 2
Start/Stop Purge Time: 1645/1715
QA/QC Collected? NO
Well Volume (gal) = $0.041d^2h$:
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. NA
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L):
Laboratory Analyses: VOCs VOCs 10 TICs (8260B) SVOCs +10 TICs (8270D)
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1650	24.02	0.047	3.71	5.60	67	0.0	0.5	6.18	
1655	23.91	0.049	3.33	5.65	69	0.0	1.0	6.22	
1700	23.78	0.041	3.73	5.59	81	0.0	1.5	6.23	
1705	23.54	0.044	3.58	5.58	86	0.0	2.0	6.23	
1710	23.46	0.044	3.41	5.57	82	0.0	2.5	6.23	
1715 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

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Appendix B

Laboratory Analytical Reports: April 2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-94804-1
Client Project/Site: Laurinburg, NC VOC Testing

For:
AbbVie US LLC
200 Abbott Park Road
Dept V5IH, Bldg AP 52N
North Chicago, Illinois 60064-6217

Attn: Pam Kramer

Authorized for release by:
4/29/2015 3:47:10 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-94804-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-94804-1

Comments
No additional comments.

Receipt
The samples were received on 4/17/2015 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

Except:

Recevied the following vials with larger than pea size bubbles. Sample 2-1 vial, all vials for samples 3-7, and 5 vials for sample 8. Received 2 vials for sample 4 with ID of RI9A1)-GW01 (51-55) with time of 1215. Sample 15 vials have time of 830 and sample 21 vials have time of 1400, logged per COC. Didn't receive the sample with ID of 042015-SOIL-AUGER-RINSE

The following sample was collected in an improper container: RI(A1)-GW03 (71-75) (500-94804-3). The client was contacted regarding this issue, and the laboratory was instructed to cancel the VOC analysis.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 285707 recovered outside control limits for the following analytes: Bromoform, Dibromochloromethane, Dichlorodifluoromethane, Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for batch 285709 recovered outside control limits for the following analytes: 1,1-Dichloroethane, Styrene, O-xylene, Vinyl Chloride, 1,2,4-Trimethylbenzene, 1,2-Dichloropropane, 4-Isopropyl toluene, Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: RI(A1) -GW06 (51-55) (500-94804-6), RI(A1)-GW07 (51-55) (500-94804-8), MW-100A (500-94804-9), MW-100B (500-94804-10), MW-102C (PDB) (500-94804-15), MW-103A (500-94804-16), MW-103C (500-94804-18), MW-104B (500-94804-20), MW-104C (LOW FLOW) (500-94804-27), 042015-GW-DUP02 (500-94804-34) and MW-102C (LOW FLOW) (500-94804-40). Elevated reporting limits (RLs) are provided.

Method(s) 8260B SIM: In batch 273654 the following samples were diluted at a 2X-20X dilution due to the abundance of non-target analytes: MW-100B (500-94804-10), MW-101B (500-94804-12), MW-104C (PDB) (500-94804-21), MW-19D (500-94804-28) and 042015-GW-DUP02 (500-94804-34). Lesser dilutions would contaminate the instrument. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW01 (51-55) — Lab Sample ID: 500-94804-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.53		0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW03 (51-55) — Lab Sample ID: 500-94804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.54		0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW04 (51-55) — Lab Sample ID: 500-94804-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	2.5	J	5.0	0.22	ug/L	1		8260B	Total/NA
Acetone	7.6		5.0	1.3	ug/L	1		8260B	Total/NA
Toluene	0.76		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	0.61		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW04 (71-75) — Lab Sample ID: 500-94804-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	6.4		5.0	0.22	ug/L	1		8260B	Total/NA
Acetone	18		5.0	1.3	ug/L	1		8260B	Total/NA
Benzene	0.41	J	0.50	0.074	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.8		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	0.89		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	0.65		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW06 (51-55) — Lab Sample ID: 500-94804-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	57		2.0	0.24	ug/L	2		8260B	Total/NA
Toluene	1.2		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethylene	3.3		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	0.91	J	1.0	0.20	ug/L	2		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	330		100	4.4	ug/L	20		8260B	Total/NA

Client Sample ID: RI(A1)-GW06 (71-75) — Lab Sample ID: 500-94804-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	84		5.0	0.22	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	0.53		0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW07 (51-55) — Lab Sample ID: 500-94804-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.70	J	1.0	0.22	ug/L	1		8260B SIM	Total/NA
Chloroform	1.6	J	2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	90		2.0	0.24	ug/L	2		8260B	Total/NA
Toluene	0.80	J	1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethylene	3.7		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	4.0		1.0	0.20	ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW07 (51-55) (Continued) — Lab Sample ID: 500-94804-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane - DL	630		100	4.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-100A — Lab Sample ID: 500-94804-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	720		100	20	ug/L	100		8260B	Total/NA
1,1-Dichloroethane	110		100	19	ug/L	100		8260B	Total/NA
1,1-Dichloroethylene	640		100	31	ug/L	100		8260B	Total/NA
1,2-Dichloroethane	110		100	28	ug/L	100		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	13000		500	22	ug/L	100		8260B	Total/NA
Acetone	530		500	130	ug/L	100		8260B	Total/NA
Chloroform	140		100	20	ug/L	100		8260B	Total/NA
m&p-Xylene	64	J	100	26	ug/L	100		8260B	Total/NA
Toluene	1800		50	11	ug/L	100		8260B	Total/NA
Vinyl chloride	120		50	10	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene - DL	41000		10000	1200	ug/L	10000		8260B	Total/NA

Client Sample ID: MW-100B — Lab Sample ID: 500-94804-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	30		20	4.4	ug/L	1		8260B SIM	Total/NA
1,1,1-Trichloroethane	1300		200	40	ug/L	200		8260B	Total/NA
1,1-Dichloroethane	120	J	200	38	ug/L	200		8260B	Total/NA
1,1-Dichloroethylene	850		200	62	ug/L	200		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	19000		1000	44	ug/L	200		8260B	Total/NA
Chloroform	170	J	200	40	ug/L	200		8260B	Total/NA
m&p-Xylene	110	J	200	52	ug/L	200		8260B	Total/NA
Toluene	2800		100	22	ug/L	200		8260B	Total/NA
Trichloroethylene	220		100	38	ug/L	200		8260B	Total/NA
Vinyl chloride	98	J	100	20	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene - DL	61000		2000	240	ug/L	2000		8260B	Total/NA

Client Sample ID: MW-101A — Lab Sample ID: 500-94804-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.9		1.0	0.20	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.59	J	1.0	0.19	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	48		1.0	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.34	J	0.50	0.13	ug/L	1		8260B	Total/NA
m&p-Xylene	1.2		1.0	0.26	ug/L	1		8260B	Total/NA
o-Xylene	0.32	J	0.50	0.068	ug/L	1		8260B	Total/NA
Perchloroethylene	2.5		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	2.5		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	5.9		0.50	0.19	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	710		100	4.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-101B — Lab Sample ID: 500-94804-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	27		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-101B (Continued) — Lab Sample ID: 500-94804-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.93	J	1.0	0.19	ug/L	1		8260B	Total/NA
m&p-Xylene	0.58	J	1.0	0.26	ug/L	1		8260B	Total/NA
Perchloroethylene	2.1		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	4.2		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	19		0.50	0.19	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	680		50	2.2	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	510		10	1.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-102A — Lab Sample ID: 500-94804-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethylene	17		1.0	0.31	ug/L	1		8260B	Total/NA
Chloroethane	2.9		1.0	0.34	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	33		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	0.90		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	1.8		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.59		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	300		25	1.1	ug/L	5		8260B	Total/NA

Client Sample ID: MW-102B — Lab Sample ID: 500-94804-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.0		1.0	0.20	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.3		1.0	0.19	ug/L	1		8260B	Total/NA
1,1-Dichloroethylene	33		1.0	0.31	ug/L	1		8260B	Total/NA
Ethylbenzene	0.71		0.50	0.13	ug/L	1		8260B	Total/NA
m&p-Xylene	2.0		1.0	0.26	ug/L	1		8260B	Total/NA
o-Xylene	0.64		0.50	0.068	ug/L	1		8260B	Total/NA
Perchloroethylene	1.5		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	27		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	0.85		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	3.0		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	1200		50	2.2	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	510		10	1.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-102C (PDB) — Lab Sample ID: 500-94804-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	82	J	100	20	ug/L	100		8260B	Total/NA
1,1-Dichloroethylene	1200		100	31	ug/L	100		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	13000		500	22	ug/L	100		8260B	Total/NA
m&p-Xylene	64	J	100	26	ug/L	100		8260B	Total/NA
o-Xylene	25	J	50	6.8	ug/L	100		8260B	Total/NA
Toluene	2000		50	11	ug/L	100		8260B	Total/NA
Trichloroethylene	570		50	19	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene - DL	44000		1000	120	ug/L	1000		8260B	Total/NA

Client Sample ID: MW-103A — Lab Sample ID: 500-94804-16

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-103A (Continued) — Lab Sample ID: 500-94804-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		50	6.0	ug/L	50		8260B	Total/NA
Toluene	18	J	25	5.5	ug/L	50		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	12000		2500	110	ug/L	500		8260B	Total/NA

Client Sample ID: MW-103B — Lab Sample ID: 500-94804-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		1.0	0.19	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.9		1.0	0.28	ug/L	1		8260B	Total/NA
Chloroform	0.64	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	150		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	1.1		0.50	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.72	J	1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethylene	8.1		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	13		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	3000		100	4.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-103C — Lab Sample ID: 500-94804-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		20	2.4	ug/L	20		8260B	Total/NA
Toluene	7.1	J	10	2.2	ug/L	20		8260B	Total/NA
Trichloroethylene	20		10	3.8	ug/L	20		8260B	Total/NA
Vinyl chloride	11		10	2.0	ug/L	20		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	7900		1000	44	ug/L	200		8260B	Total/NA

Client Sample ID: MW-104A — Lab Sample ID: 500-94804-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.0		1.0	0.19	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.1		1.0	0.28	ug/L	1		8260B	Total/NA
Chloroform	0.81	J	1.0	0.20	ug/L	1		8260B	Total/NA
Toluene	0.49	J	0.50	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethylene	1.5		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	25		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	390		50	2.2	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	370		10	1.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-104B — Lab Sample ID: 500-94804-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29		2.0	0.24	ug/L	2		8260B	Total/NA
Methyl tert-butyl ether	2.0		2.0	0.48	ug/L	2		8260B	Total/NA
Toluene	0.91	J	1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethylene	4.6		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	1.3		1.0	0.20	ug/L	2		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	610		100	4.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-104C (PDB) — Lab Sample ID: 500-94804-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-104C (PDB) (Continued) — Lab Sample ID: 500-94804-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.54		0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	1.7		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	53		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	4.2		1.0	0.24	ug/L	1		8260B	Total/NA
Trichloroethylene	8.5		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	1.4		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	1800		50	2.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-105C — Lab Sample ID: 500-94804-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6		5.0	1.3	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.89	J	1.0	0.24	ug/L	1		8260B	Total/NA

Client Sample ID: MW-10B — Lab Sample ID: 500-94804-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	180		5.0	0.22	ug/L	1		8260B	Total/NA
Chloroform	0.74	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.3		1.0	0.24	ug/L	1		8260B	Total/NA
Toluene	0.31	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	1.1		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.52		0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: MW-10D — Lab Sample ID: 500-94804-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.83	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	64		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.2		1.0	0.24	ug/L	1		8260B	Total/NA
Toluene	0.30	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	2.5		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	3.0		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	700		50	2.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-16B — Lab Sample ID: 500-94804-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	22		5.0	0.22	ug/L	1		8260B	Total/NA
Chloroform	0.96	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.4		1.0	0.24	ug/L	1		8260B	Total/NA
Toluene	0.34	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	0.51		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-16D — Lab Sample ID: 500-94804-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	27		5.0	0.22	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16D (Continued) — Lab Sample ID: 500-94804-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21		5.0	1.3	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	4.9		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	0.33	J	0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: MW-104C (LOW FLOW) — Lab Sample ID: 500-94804-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		5.0	0.60	ug/L	5		8260B	Total/NA
Methyl tert-butyl ether	3.6	J	5.0	1.2	ug/L	5		8260B	Total/NA
Toluene	1.9	J	2.5	0.55	ug/L	5		8260B	Total/NA
Trichloroethylene	5.1		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	2.1	J	2.5	0.50	ug/L	5		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	1300		250	11	ug/L	50		8260B	Total/NA

Client Sample ID: MW-19D — Lab Sample ID: 500-94804-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	200		5.0	0.22	ug/L	1		8260B	Total/NA
Benzene	0.54		0.50	0.074	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	78		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethylene	2.6		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	1.1		0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: MW-20B — Lab Sample ID: 500-94804-29

No Detections.

Client Sample ID: MW-20D — Lab Sample ID: 500-94804-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.47	J	0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: MW-21B — Lab Sample ID: 500-94804-31

No Detections.

Client Sample ID: FR-6D — Lab Sample ID: 500-94804-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0	0.12	ug/L	1		8260B	Total/NA

Client Sample ID: 042015-GW-DUP01 — Lab Sample ID: 500-94804-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	170		5.0	0.22	ug/L	1		8260B	Total/NA
Chloroform	0.81	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	16		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.2		1.0	0.24	ug/L	1		8260B	Total/NA
Toluene	0.32	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethylene	1.0		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.62		0.50	0.10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: 042015-GW-DUP02 — Lab Sample ID: 500-94804-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	24		20	4.4	ug/L	1		8260B SIM	Total/NA
1,1,1-Trichloroethane	1200		200	40	ug/L	200		8260B	Total/NA
1,1-Dichloroethane	130	J	200	38	ug/L	200		8260B	Total/NA
1,1-Dichloroethylene	810		200	62	ug/L	200		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	18000		1000	44	ug/L	200		8260B	Total/NA
Chloroform	190	J	200	40	ug/L	200		8260B	Total/NA
m&p-Xylene	110	J	200	52	ug/L	200		8260B	Total/NA
Toluene	2900		100	22	ug/L	200		8260B	Total/NA
Trichloroethylene	220		100	38	ug/L	200		8260B	Total/NA
Vinyl chloride	97	J	100	20	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene - DL	62000		2000	240	ug/L	2000		8260B	Total/NA

Client Sample ID: RI(A1)-SW01 — Lab Sample ID: 500-94804-35

No Detections.

Client Sample ID: RI(A1)-SW02 — Lab Sample ID: 500-94804-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		1.0	0.12	ug/L	1		8260B	Total/NA
Toluene	0.45	J	0.50	0.11	ug/L	1		8260B	Total/NA
Vinyl chloride	0.98		0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-SW03 — Lab Sample ID: 500-94804-37

No Detections.

Client Sample ID: 042015-SW-DUP01 — Lab Sample ID: 500-94804-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.2		5.0	1.3	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-94804-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4		5.0	1.3	ug/L	1		8260B	Total/NA

Client Sample ID: MW-102C (LOW FLOW) — Lab Sample ID: 500-94804-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	79		50	10	ug/L	50		8260B	Total/NA
1,1-Dichloroethylene	980		50	16	ug/L	50		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	8100		250	11	ug/L	50		8260B	Total/NA
Chloroform	30	J	50	10	ug/L	50		8260B	Total/NA
Methylene Chloride	360		250	34	ug/L	50		8260B	Total/NA
Toluene	1300		25	5.5	ug/L	50		8260B	Total/NA
Trichloroethylene	5400		25	9.5	ug/L	50		8260B	Total/NA
cis-1,2-Dichloroethene - DL	38000		500	60	ug/L	500		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94804-1	RI(A1)-GW01 (51-55)	Water	04/15/15 14:15	04/17/15 10:20
500-94804-2	RI(A1)-GW03 (51-55)	Water	04/15/15 11:00	04/17/15 10:20
500-94804-4	RI(A1)-GW04 (51-55)	Water	04/15/15 12:15	04/17/15 10:20
500-94804-5	RI(A1)-GW04 (71-75)	Water	04/15/15 12:30	04/17/15 10:20
500-94804-6	RI(A1)-GW06 (51-55)	Water	04/15/15 15:15	04/17/15 10:20
500-94804-7	RI(A1)-GW06 (71-75)	Water	04/15/15 15:30	04/17/15 10:20
500-94804-8	RI(A1)-GW07 (51-55)	Water	04/15/15 16:00	04/17/15 10:20
500-94804-9	MW-100A	Water	04/15/15 10:15	04/17/15 10:20
500-94804-10	MW-100B	Water	04/15/15 11:45	04/17/15 10:20
500-94804-11	MW-101A	Water	04/15/15 08:30	04/17/15 10:20
500-94804-12	MW-101B	Water	04/14/15 11:50	04/17/15 10:20
500-94804-13	MW-102A	Water	04/14/15 09:05	04/17/15 10:20
500-94804-14	MW-102B	Water	04/14/15 10:00	04/17/15 10:20
500-94804-15	MW-102C (PDB)	Water	04/14/15 10:40	04/17/15 10:20
500-94804-16	MW-103A	Water	04/14/15 17:15	04/17/15 10:20
500-94804-17	MW-103B	Water	04/14/15 14:30	04/17/15 10:20
500-94804-18	MW-103C	Water	04/14/15 15:30	04/17/15 10:20
500-94804-19	MW-104A	Water	04/14/15 14:30	04/17/15 10:20
500-94804-20	MW-104B	Water	04/14/15 15:15	04/17/15 10:20
500-94804-21	MW-104C (PDB)	Water	04/14/15 16:20	04/17/15 10:20
500-94804-22	MW-105C	Water	04/13/15 16:00	04/17/15 10:20
500-94804-23	MW-10B	Water	04/14/15 10:30	04/17/15 10:20
500-94804-24	MW-10D	Water	04/14/15 09:15	04/17/15 10:20
500-94804-25	MW-16B	Water	04/14/15 12:00	04/17/15 10:20
500-94804-26	MW-16D	Water	04/14/15 10:45	04/17/15 10:20
500-94804-27	MW-104C (LOW FLOW)	Water	04/14/15 16:20	04/17/15 10:20
500-94804-28	MW-19D	Water	04/13/15 16:30	04/17/15 10:20
500-94804-29	MW-20B	Water	04/13/15 15:30	04/17/15 10:20
500-94804-30	MW-20D	Water	04/13/15 16:10	04/17/15 10:20
500-94804-31	MW-21B	Water	04/13/15 17:30	04/17/15 10:20
500-94804-32	FR-6D	Water	04/13/15 17:15	04/17/15 10:20
500-94804-33	042015-GW-DUP01	Water	04/15/15 00:00	04/17/15 10:20
500-94804-34	042015-GW-DUP02	Water	04/15/15 00:00	04/17/15 10:20
500-94804-35	RI(A1)-SW01	Water	04/13/15 13:30	04/17/15 10:20
500-94804-36	RI(A1)-SW02	Water	04/13/15 13:45	04/17/15 10:20
500-94804-37	RI(A1)-SW03	Water	04/13/15 14:00	04/17/15 10:20
500-94804-38	042015-SW-DUP01	Water	04/13/15 00:00	04/17/15 10:20
500-94804-39	TRIP BLANK	Water	04/13/15 00:00	04/17/15 10:20
500-94804-40	MW-102C (LOW FLOW)	Water	04/14/15 10:40	04/17/15 10:20

Client Sample ID: RI(A1)-GW01 (51-55)

Lab Sample ID: 500-94804-1

Date Collected: 04/15/15 14:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 02:14	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 02:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 02:14	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 02:14	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 02:14	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 02:14	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 02:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 02:14	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 02:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 02:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 02:14	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 02:14	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 02:14	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 02:14	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 02:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 02:14	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 02:14	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 02:14	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 02:14	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 02:14	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 02:14	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 02:14	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 02:14	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 02:14	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 02:14	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 02:14	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 02:14	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 02:14	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 02:14	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 02:14	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 02:14	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 02:14	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 02:14	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 02:14	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 02:14	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 02:14	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 02:14	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 02:14	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 02:14	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 02:14	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 02:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 02:14	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 02:14	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 02:14	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 02:14	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 02:14	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:14	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 02:14	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW01 (51-55)

Lab Sample ID: 500-94804-1

Date Collected: 04/15/15 14:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 02:14	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 02:14	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 02:14	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 02:14	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 02:14	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 02:14	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 02:14	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 02:14	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 02:14	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 02:14	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:14	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 02:14	1
Toluene	**0.53**		0.50	0.11	ug/L			04/28/15 02:14	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 02:14	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 02:14	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 02:14	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 02:14	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*		*04/28/15 02:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*04/28/15 02:14*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 02:14*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 02:14*	*1*

Client Sample ID: RI(A1)-GW03 (51-55)

Lab Sample ID: 500-94804-2

Date Collected: 04/15/15 11:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 02:41	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 02:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 02:41	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 02:41	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 02:41	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 02:41	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 02:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 02:41	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 02:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 02:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 02:41	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 02:41	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 02:41	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 02:41	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 02:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 02:41	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 02:41	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 02:41	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 02:41	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 02:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 02:41	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 02:41	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 02:41	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 02:41	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 02:41	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 02:41	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 02:41	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 02:41	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 02:41	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 02:41	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 02:41	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 02:41	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 02:41	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 02:41	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 02:41	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 02:41	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 02:41	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 02:41	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 02:41	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 02:41	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 02:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 02:41	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 02:41	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 02:41	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 02:41	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 02:41	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:41	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 02:41	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW03 (51-55)

Lab Sample ID: 500-94804-2

Date Collected: 04/15/15 11:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 02:41	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 02:41	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 02:41	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 02:41	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 02:41	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 02:41	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 02:41	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 02:41	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 02:41	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 02:41	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 02:41	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 02:41	1
Toluene	**0.54**		0.50	0.11	ug/L			04/28/15 02:41	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 02:41	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 02:41	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 02:41	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 02:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 125*		*04/28/15 02:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*04/28/15 02:41*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 02:41*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 02:41*	*1*

Client Sample ID: RI(A1)-GW04 (51-55)

Lab Sample ID: 500-94804-4

Date Collected: 04/15/15 12:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 03:07	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 03:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 03:07	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 03:07	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 03:07	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 03:07	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 03:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 03:07	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 03:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 03:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 03:07	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 03:07	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 03:07	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 03:07	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 03:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 03:07	1
1,1,2-Trichlorotrifluoroethane	**2.5**	**J**	5.0	0.22	ug/L			04/28/15 03:07	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 03:07	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 03:07	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 03:07	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 03:07	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 03:07	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 03:07	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 03:07	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 03:07	1
Acetone	**7.6**		5.0	1.3	ug/L			04/28/15 03:07	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 03:07	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 03:07	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 03:07	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 03:07	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 03:07	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 03:07	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 03:07	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 03:07	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 03:07	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 03:07	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 03:07	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 03:07	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 03:07	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 03:07	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 03:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 03:07	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 03:07	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 03:07	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 03:07	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 03:07	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:07	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 03:07	1

Client Sample ID: RI(A1)-GW04 (51-55)

Lab Sample ID: 500-94804-4

Date Collected: 04/15/15 12:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 03:07	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 03:07	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 03:07	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 03:07	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 03:07	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 03:07	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 03:07	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 03:07	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 03:07	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 03:07	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:07	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 03:07	1
Toluene	**0.76**		0.50	0.11	ug/L			04/28/15 03:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 03:07	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 03:07	1
Trichloroethylene	**0.61**		0.50	0.19	ug/L			04/28/15 03:07	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 03:07	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 03:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*04/28/15 03:07*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 03:07*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 03:07*	*1*

Client Sample ID: RI(A1)-GW04 (71-75)

Lab Sample ID: 500-94804-5

Date Collected: 04/15/15 12:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 03:33	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 03:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 03:33	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 03:33	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 03:33	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 03:33	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 03:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 03:33	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 03:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 03:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 03:33	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 03:33	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 03:33	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 03:33	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 03:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 03:33	1
1,1,2-Trichlorotrifluoroethane	**6.4**		5.0	0.22	ug/L			04/28/15 03:33	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 03:33	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 03:33	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 03:33	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 03:33	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 03:33	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 03:33	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 03:33	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 03:33	1
Acetone	**18**		5.0	1.3	ug/L			04/28/15 03:33	1
Benzene	**0.41**	**J**	0.50	0.074	ug/L			04/28/15 03:33	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 03:33	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 03:33	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 03:33	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 03:33	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 03:33	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 03:33	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 03:33	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 03:33	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 03:33	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 03:33	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 03:33	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 03:33	1
cis-1,2-Dichloroethene	**1.8**		1.0	0.12	ug/L			04/28/15 03:33	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 03:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 03:33	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 03:33	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 03:33	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 03:33	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 03:33	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:33	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 03:33	1

Client Sample ID: RI(A1)-GW04 (71-75)

Lab Sample ID: 500-94804-5

Date Collected: 04/15/15 12:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 03:33	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 03:33	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 03:33	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 03:33	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 03:33	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 03:33	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 03:33	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 03:33	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 03:33	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 03:33	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 03:33	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 03:33	1
Toluene	**0.89**		0.50	0.11	ug/L			04/28/15 03:33	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 03:33	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 03:33	1
Trichloroethylene	**0.65**		0.50	0.19	ug/L			04/28/15 03:33	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 03:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*		*04/28/15 03:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*04/28/15 03:33*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/28/15 03:33*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/28/15 03:33*	*1*

Client Sample ID: RI(A1)-GW06 (51-55)
Date Collected: 04/15/15 15:15
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L			04/28/15 04:00	2
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			04/28/15 04:00	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.46	ug/L			04/28/15 04:00	2
1,1,2-Trichloroethane	ND		2.0	0.56	ug/L			04/28/15 04:00	2
1,1-Dichloroethane	ND		2.0	0.38	ug/L			04/28/15 04:00	2
1,1-Dichloroethylene	ND		2.0	0.62	ug/L			04/28/15 04:00	2
1,1-Dichloropropene	ND		2.0	0.68	ug/L			04/28/15 04:00	2
1,2,3-Trichlorobenzene	ND		2.0	0.48	ug/L			04/28/15 04:00	2
1,2,3-Trichloropropane	ND		2.0	0.90	ug/L			04/28/15 04:00	2
1,2,4-Trichlorobenzene	ND		2.0	0.62	ug/L			04/28/15 04:00	2
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:00	2
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/L			04/28/15 04:00	2
1,2-Dibromoethane	ND		2.0	0.72	ug/L			04/28/15 04:00	2
1,2-Dichlorobenzene	ND		2.0	0.54	ug/L			04/28/15 04:00	2
1,2-Dichloroethane	ND		2.0	0.56	ug/L			04/28/15 04:00	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/15 04:00	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			04/28/15 04:00	2
1,3-Dichlorobenzene	ND		2.0	0.30	ug/L			04/28/15 04:00	2
1,3-Dichloropropane	ND		2.0	0.26	ug/L			04/28/15 04:00	2
1,4-Dichlorobenzene	ND		2.0	0.30	ug/L			04/28/15 04:00	2
2,2-Dichloropropane	ND		2.0	0.64	ug/L			04/28/15 04:00	2
2-Chlorotoluene	ND		2.0	0.42	ug/L			04/28/15 04:00	2
2-Hexanone	ND		10	1.1	ug/L			04/28/15 04:00	2
4-Chlorotoluene	ND		2.0	0.40	ug/L			04/28/15 04:00	2
4-Isopropyltoluene	ND		4.0	0.34	ug/L			04/28/15 04:00	2
Acetone	ND		10	2.6	ug/L			04/28/15 04:00	2
Benzene	ND		1.0	0.15	ug/L			04/28/15 04:00	2
Bromobenzene	ND		2.0	0.50	ug/L			04/28/15 04:00	2
Bromodichloromethane	ND		2.0	0.34	ug/L			04/28/15 04:00	2
Bromoform	ND		2.0	0.56	ug/L			04/28/15 04:00	2
Bromomethane	ND		10	0.62	ug/L			04/28/15 04:00	2
Carbon disulfide	ND		10	0.86	ug/L			04/28/15 04:00	2
Carbon tetrachloride	ND		2.0	0.52	ug/L			04/28/15 04:00	2
Chlorobenzene	ND		2.0	0.28	ug/L			04/28/15 04:00	2
Chlorobromomethane	ND		2.0	0.80	ug/L			04/28/15 04:00	2
Vinyl acetate	ND		4.0	0.66	ug/L			04/28/15 04:00	2
Chloroethane	ND		2.0	0.68	ug/L			04/28/15 04:00	2
Chloroform	ND		2.0	0.40	ug/L			04/28/15 04:00	2
Chloromethane	ND		2.0	0.36	ug/L			04/28/15 04:00	2
cis-1,2-Dichloroethene	**57**		2.0	0.24	ug/L			04/28/15 04:00	2
cis-1,3-Dichloropropene	ND		2.0	0.36	ug/L			04/28/15 04:00	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/28/15 04:00	2
Dibromomethane	ND		2.0	0.66	ug/L			04/28/15 04:00	2
Dichlorodifluoromethane	ND		10	0.40	ug/L			04/28/15 04:00	2
Ethylbenzene	ND		1.0	0.26	ug/L			04/28/15 04:00	2
Hexachlorobutadiene	ND		2.0	0.52	ug/L			04/28/15 04:00	2
Isopropylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:00	2
m&p-Xylene	ND		2.0	0.52	ug/L			04/28/15 04:00	2
Methyl Ethyl Ketone	ND		10	2.9	ug/L			04/28/15 04:00	2

Client Sample ID: RI(A1)-GW06 (51-55)

Lab Sample ID: 500-94804-6

Date Collected: 04/15/15 15:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		10	0.66	ug/L			04/28/15 04:00	2
Methyl tert-butyl ether	ND		2.0	0.48	ug/L			04/28/15 04:00	2
Methylene Chloride	ND		10	1.4	ug/L			04/28/15 04:00	2
Naphthalene	ND		2.0	0.32	ug/L			04/28/15 04:00	2
n-Butylbenzene	ND		2.0	0.26	ug/L			04/28/15 04:00	2
N-Propylbenzene	ND		2.0	0.26	ug/L			04/28/15 04:00	2
o-Xylene	ND		1.0	0.14	ug/L			04/28/15 04:00	2
sec-Butylbenzene	ND		2.0	0.30	ug/L			04/28/15 04:00	2
Styrene	ND		2.0	0.20	ug/L			04/28/15 04:00	2
tert-Butylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:00	2
Perchloroethylene	ND		2.0	0.34	ug/L			04/28/15 04:00	2
Toluene	**1.2**		1.0	0.22	ug/L			04/28/15 04:00	2
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L			04/28/15 04:00	2
trans-1,3-Dichloropropene	ND		2.0	0.42	ug/L			04/28/15 04:00	2
Trichloroethylene	**3.3**		1.0	0.38	ug/L			04/28/15 04:00	2
Trichlorofluoromethane	ND		2.0	0.38	ug/L			04/28/15 04:00	2
Vinyl chloride	**0.91**	**J**	1.0	0.20	ug/L			04/28/15 04:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 04:00*	*2*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/28/15 04:00*	*2*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 04:00*	*2*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/28/15 04:00*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**330**		100	4.4	ug/L			04/28/15 17:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 17:22*	*20*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/28/15 17:22*	*20*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 17:22*	*20*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 17:22*	*20*

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW06 (71-75)
Date Collected: 04/15/15 15:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 04:26	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 04:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 04:26	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 04:26	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 04:26	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 04:26	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 04:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 04:26	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 04:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 04:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 04:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 04:26	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 04:26	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 04:26	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 04:26	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 04:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 04:26	1
1,1,2-Trichlorotrifluoroethane	**84**		5.0	0.22	ug/L			04/28/15 04:26	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 04:26	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 04:26	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 04:26	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 04:26	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 04:26	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 04:26	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 04:26	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 04:26	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 04:26	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 04:26	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 04:26	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 04:26	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 04:26	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 04:26	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 04:26	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 04:26	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 04:26	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 04:26	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 04:26	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 04:26	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 04:26	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 04:26	1
cis-1,2-Dichloroethene	**10**		1.0	0.12	ug/L			04/28/15 04:26	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 04:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 04:26	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 04:26	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 04:26	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 04:26	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 04:26	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 04:26	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 04:26	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW06 (71-75)
Date Collected: 04/15/15 15:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 04:26	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 04:26	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 04:26	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 04:26	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 04:26	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 04:26	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 04:26	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 04:26	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 04:26	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 04:26	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 04:26	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 04:26	1
Toluene	**0.53**		0.50	0.11	ug/L			04/28/15 04:26	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 04:26	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 04:26	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 04:26	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 04:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 04:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*04/28/15 04:26*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 04:26*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 04:26*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW07 (51-55)

Lab Sample ID: 500-94804-8

Date Collected: 04/15/15 16:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.70**	**J**	1.0	0.22	ug/L			04/21/15 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*04/21/15 11:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L			04/28/15 04:52	2
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			04/28/15 04:52	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.46	ug/L			04/28/15 04:52	2
1,1,2-Trichloroethane	ND		2.0	0.56	ug/L			04/28/15 04:52	2
1,1-Dichloroethane	ND		2.0	0.38	ug/L			04/28/15 04:52	2
1,1-Dichloroethylene	ND		2.0	0.62	ug/L			04/28/15 04:52	2
1,1-Dichloropropene	ND		2.0	0.68	ug/L			04/28/15 04:52	2
1,2,3-Trichlorobenzene	ND		2.0	0.48	ug/L			04/28/15 04:52	2
1,2,3-Trichloropropane	ND		2.0	0.90	ug/L			04/28/15 04:52	2
1,2,4-Trichlorobenzene	ND		2.0	0.62	ug/L			04/28/15 04:52	2
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:52	2
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/L			04/28/15 04:52	2
1,2-Dibromoethane	ND		2.0	0.72	ug/L			04/28/15 04:52	2
1,2-Dichlorobenzene	ND		2.0	0.54	ug/L			04/28/15 04:52	2
1,2-Dichloroethane	ND		2.0	0.56	ug/L			04/28/15 04:52	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/15 04:52	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			04/28/15 04:52	2
1,3-Dichlorobenzene	ND		2.0	0.30	ug/L			04/28/15 04:52	2
1,3-Dichloropropane	ND		2.0	0.26	ug/L			04/28/15 04:52	2
1,4-Dichlorobenzene	ND		2.0	0.30	ug/L			04/28/15 04:52	2
2,2-Dichloropropane	ND		2.0	0.64	ug/L			04/28/15 04:52	2
2-Chlorotoluene	ND		2.0	0.42	ug/L			04/28/15 04:52	2
2-Hexanone	ND		10	1.1	ug/L			04/28/15 04:52	2
4-Chlorotoluene	ND		2.0	0.40	ug/L			04/28/15 04:52	2
4-Isopropyltoluene	ND		4.0	0.34	ug/L			04/28/15 04:52	2
Acetone	ND		10	2.6	ug/L			04/28/15 04:52	2
Benzene	ND		1.0	0.15	ug/L			04/28/15 04:52	2
Bromobenzene	ND		2.0	0.50	ug/L			04/28/15 04:52	2
Bromodichloromethane	ND		2.0	0.34	ug/L			04/28/15 04:52	2
Bromoform	ND		2.0	0.56	ug/L			04/28/15 04:52	2
Bromomethane	ND		10	0.62	ug/L			04/28/15 04:52	2
Carbon disulfide	ND		10	0.86	ug/L			04/28/15 04:52	2
Carbon tetrachloride	ND		2.0	0.52	ug/L			04/28/15 04:52	2
Chlorobenzene	ND		2.0	0.28	ug/L			04/28/15 04:52	2
Chlorobromomethane	ND		2.0	0.80	ug/L			04/28/15 04:52	2
Vinyl acetate	ND		4.0	0.66	ug/L			04/28/15 04:52	2
Chloroethane	ND		2.0	0.68	ug/L			04/28/15 04:52	2
Chloroform	**1.6**	**J**	2.0	0.40	ug/L			04/28/15 04:52	2
Chloromethane	ND		2.0	0.36	ug/L			04/28/15 04:52	2
cis-1,2-Dichloroethene	**90**		2.0	0.24	ug/L			04/28/15 04:52	2
cis-1,3-Dichloropropene	ND		2.0	0.36	ug/L			04/28/15 04:52	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/28/15 04:52	2
Dibromomethane	ND		2.0	0.66	ug/L			04/28/15 04:52	2

Client Sample ID: RI(A1)-GW07 (51-55)

Lab Sample ID: 500-94804-8

Date Collected: 04/15/15 16:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		10	0.40	ug/L			04/28/15 04:52	2
Ethylbenzene	ND		1.0	0.26	ug/L			04/28/15 04:52	2
Hexachlorobutadiene	ND		2.0	0.52	ug/L			04/28/15 04:52	2
Isopropylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:52	2
m&p-Xylene	ND		2.0	0.52	ug/L			04/28/15 04:52	2
Methyl Ethyl Ketone	ND		10	2.9	ug/L			04/28/15 04:52	2
methyl isobutyl ketone	ND		10	0.66	ug/L			04/28/15 04:52	2
Methyl tert-butyl ether	ND		2.0	0.48	ug/L			04/28/15 04:52	2
Methylene Chloride	ND		10	1.4	ug/L			04/28/15 04:52	2
Naphthalene	ND		2.0	0.32	ug/L			04/28/15 04:52	2
n-Butylbenzene	ND		2.0	0.26	ug/L			04/28/15 04:52	2
N-Propylbenzene	ND		2.0	0.26	ug/L			04/28/15 04:52	2
o-Xylene	ND		1.0	0.14	ug/L			04/28/15 04:52	2
sec-Butylbenzene	ND		2.0	0.30	ug/L			04/28/15 04:52	2
Styrene	ND		2.0	0.20	ug/L			04/28/15 04:52	2
tert-Butylbenzene	ND		2.0	0.28	ug/L			04/28/15 04:52	2
Perchloroethylene	ND		2.0	0.34	ug/L			04/28/15 04:52	2
Toluene	**0.80**	**J**	1.0	0.22	ug/L			04/28/15 04:52	2
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L			04/28/15 04:52	2
trans-1,3-Dichloropropene	ND		2.0	0.42	ug/L			04/28/15 04:52	2
Trichloroethylene	**3.7**		1.0	0.38	ug/L			04/28/15 04:52	2
Trichlorofluoromethane	ND		2.0	0.38	ug/L			04/28/15 04:52	2
Vinyl chloride	**4.0**		1.0	0.20	ug/L			04/28/15 04:52	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethene, chlorotrifluoro-	*10000*	*T J N*	*ug/L*		*1.77*	*79-38-9*		*04/28/15 04:52*	*2*
Unknown alkane	*2400*	*T J*	*ug/L*		*1.93*			*04/28/15 04:52*	*2*
Unknown alkane	*920*	*T J*	*ug/L*		*2.83*			*04/28/15 04:52*	*2*
Unknown alkane	*2800*	*T J*	*ug/L*		*3.56*			*04/28/15 04:52*	*2*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*9400*	*T J N*	*ug/L*		*3.66*	*354-23-4*		*04/28/15 04:52*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/28/15 04:52*	*2*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/28/15 04:52*	*2*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 04:52*	*2*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 04:52*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**630**		100	4.4	ug/L			04/28/15 17:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*		*04/28/15 17:50*	*20*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/28/15 17:50*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*04/28/15 17:50*	*20*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 17:50*	*20*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-100A

Lab Sample ID: 500-94804-9

Date Collected: 04/15/15 10:15
Date Received: 04/17/15 10:20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	25	ug/L			04/28/15 05:19	100
1,1,1-Trichloroethane	**720**		100	20	ug/L			04/28/15 05:19	100
1,1,2,2-Tetrachloroethane	ND		100	23	ug/L			04/28/15 05:19	100
1,1,2-Trichloroethane	ND		100	28	ug/L			04/28/15 05:19	100
1,1-Dichloroethane	**110**		100	19	ug/L			04/28/15 05:19	100
1,1-Dichloroethylene	**640**		100	31	ug/L			04/28/15 05:19	100
1,1-Dichloropropene	ND		100	34	ug/L			04/28/15 05:19	100
1,2,3-Trichlorobenzene	ND		100	24	ug/L			04/28/15 05:19	100
1,2,3-Trichloropropane	ND		100	45	ug/L			04/28/15 05:19	100
1,2,4-Trichlorobenzene	ND		100	31	ug/L			04/28/15 05:19	100
1,2,4-Trimethylbenzene	ND		100	14	ug/L			04/28/15 05:19	100
1,2-Dibromo-3-Chloropropane	ND		500	87	ug/L			04/28/15 05:19	100
1,2-Dibromoethane	ND		100	36	ug/L			04/28/15 05:19	100
1,2-Dichlorobenzene	ND		100	27	ug/L			04/28/15 05:19	100
1,2-Dichloroethane	**110**		100	28	ug/L			04/28/15 05:19	100
1,2-Dichloropropane	ND		100	20	ug/L			04/28/15 05:19	100
1,3,5-Trimethylbenzene	ND		100	18	ug/L			04/28/15 05:19	100
1,1,2-Trichlorotrifluoroethane	**13000**		500	22	ug/L			04/28/15 05:19	100
1,3-Dichlorobenzene	ND		100	15	ug/L			04/28/15 05:19	100
1,3-Dichloropropane	ND		100	13	ug/L			04/28/15 05:19	100
1,4-Dichlorobenzene	ND		100	15	ug/L			04/28/15 05:19	100
2,2-Dichloropropane	ND		100	32	ug/L			04/28/15 05:19	100
2-Chlorotoluene	ND		100	21	ug/L			04/28/15 05:19	100
2-Hexanone	ND		500	56	ug/L			04/28/15 05:19	100
4-Chlorotoluene	ND		100	20	ug/L			04/28/15 05:19	100
4-Isopropyltoluene	ND		200	17	ug/L			04/28/15 05:19	100
Acetone	**530**		500	130	ug/L			04/28/15 05:19	100
Benzene	ND		50	7.4	ug/L			04/28/15 05:19	100
Bromobenzene	ND		100	25	ug/L			04/28/15 05:19	100
Bromodichloromethane	ND		100	17	ug/L			04/28/15 05:19	100
Bromoform	ND		100	28	ug/L			04/28/15 05:19	100
Bromomethane	ND		500	31	ug/L			04/28/15 05:19	100
Carbon disulfide	ND		500	43	ug/L			04/28/15 05:19	100
Carbon tetrachloride	ND		100	26	ug/L			04/28/15 05:19	100
Chlorobenzene	ND		100	14	ug/L			04/28/15 05:19	100
Chlorobromomethane	ND		100	40	ug/L			04/28/15 05:19	100
Vinyl acetate	ND		200	33	ug/L			04/28/15 05:19	100
Chloroethane	ND		100	34	ug/L			04/28/15 05:19	100
Chloroform	**140**		100	20	ug/L			04/28/15 05:19	100
Chloromethane	ND		100	18	ug/L			04/28/15 05:19	100
cis-1,3-Dichloropropene	ND		100	18	ug/L			04/28/15 05:19	100
Dibromochloromethane	ND		100	32	ug/L			04/28/15 05:19	100
Dibromomethane	ND		100	33	ug/L			04/28/15 05:19	100
Dichlorodifluoromethane	ND		500	20	ug/L			04/28/15 05:19	100
Ethylbenzene	ND		50	13	ug/L			04/28/15 05:19	100
Hexachlorobutadiene	ND		100	26	ug/L			04/28/15 05:19	100
Isopropylbenzene	ND		100	14	ug/L			04/28/15 05:19	100
m&p-Xylene	**64**	**J**	100	26	ug/L			04/28/15 05:19	100
Methyl Ethyl Ketone	ND		500	150	ug/L			04/28/15 05:19	100

Client Sample ID: MW-100A

Lab Sample ID: 500-94804-9

Date Collected: 04/15/15 10:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		500	33	ug/L			04/28/15 05:19	100
Methyl tert-butyl ether	ND		100	24	ug/L			04/28/15 05:19	100
Methylene Chloride	ND		500	68	ug/L			04/28/15 05:19	100
Naphthalene	ND		100	16	ug/L			04/28/15 05:19	100
n-Butylbenzene	ND		100	13	ug/L			04/28/15 05:19	100
N-Propylbenzene	ND		100	13	ug/L			04/28/15 05:19	100
o-Xylene	ND		50	6.8	ug/L			04/28/15 05:19	100
sec-Butylbenzene	ND		100	15	ug/L			04/28/15 05:19	100
Styrene	ND		100	10	ug/L			04/28/15 05:19	100
tert-Butylbenzene	ND		100	14	ug/L			04/28/15 05:19	100
Perchloroethylene	ND		100	17	ug/L			04/28/15 05:19	100
Toluene	**1800**		50	11	ug/L			04/28/15 05:19	100
trans-1,2-Dichloroethene	ND		100	25	ug/L			04/28/15 05:19	100
trans-1,3-Dichloropropene	ND		100	21	ug/L			04/28/15 05:19	100
Trichloroethylene	ND		50	19	ug/L			04/28/15 05:19	100
Trichlorofluoromethane	ND		100	19	ug/L			04/28/15 05:19	100
Vinyl chloride	**120**		50	10	ug/L			04/28/15 05:19	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 05:19*	*100*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*04/28/15 05:19*	*100*
Dibromofluoromethane	*92*		*75 - 120*		*04/28/15 05:19*	*100*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 05:19*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**41000**		10000	1200	ug/L			04/29/15 10:35	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*		*04/29/15 10:35*	*10000*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/29/15 10:35*	*10000*
Dibromofluoromethane	*87*		*75 - 120*		*04/29/15 10:35*	*10000*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/29/15 10:35*	*10000*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-100B

Date Collected: 04/15/15 11:45
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-10

Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**30**		20	4.4	ug/L			04/21/15 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*04/21/15 11:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		200	50	ug/L			04/28/15 05:46	200
1,1,1-Trichloroethane	**1300**		200	40	ug/L			04/28/15 05:46	200
1,1,2,2-Tetrachloroethane	ND		200	46	ug/L			04/28/15 05:46	200
1,1,2-Trichloroethane	ND		200	56	ug/L			04/28/15 05:46	200
1,1-Dichloroethane	**120**	**J**	200	38	ug/L			04/28/15 05:46	200
1,1-Dichloroethylene	**850**		200	62	ug/L			04/28/15 05:46	200
1,1-Dichloropropene	ND		200	68	ug/L			04/28/15 05:46	200
1,2,3-Trichlorobenzene	ND		200	48	ug/L			04/28/15 05:46	200
1,2,3-Trichloropropane	ND		200	90	ug/L			04/28/15 05:46	200
1,2,4-Trichlorobenzene	ND		200	62	ug/L			04/28/15 05:46	200
1,2,4-Trimethylbenzene	ND		200	28	ug/L			04/28/15 05:46	200
1,2-Dibromo-3-Chloropropane	ND		1000	170	ug/L			04/28/15 05:46	200
1,2-Dibromoethane	ND		200	72	ug/L			04/28/15 05:46	200
1,2-Dichlorobenzene	ND		200	54	ug/L			04/28/15 05:46	200
1,2-Dichloroethane	ND		200	56	ug/L			04/28/15 05:46	200
1,2-Dichloropropane	ND		200	40	ug/L			04/28/15 05:46	200
1,3,5-Trimethylbenzene	ND		200	36	ug/L			04/28/15 05:46	200
1,1,2-Trichlorotrifluoroethane	**19000**		1000	44	ug/L			04/28/15 05:46	200
1,3-Dichlorobenzene	ND		200	30	ug/L			04/28/15 05:46	200
1,3-Dichloropropane	ND		200	26	ug/L			04/28/15 05:46	200
1,4-Dichlorobenzene	ND		200	30	ug/L			04/28/15 05:46	200
2,2-Dichloropropane	ND		200	64	ug/L			04/28/15 05:46	200
2-Chlorotoluene	ND		200	42	ug/L			04/28/15 05:46	200
2-Hexanone	ND		1000	110	ug/L			04/28/15 05:46	200
4-Chlorotoluene	ND		200	40	ug/L			04/28/15 05:46	200
4-Isopropyltoluene	ND		400	34	ug/L			04/28/15 05:46	200
Acetone	ND		1000	260	ug/L			04/28/15 05:46	200
Benzene	ND		100	15	ug/L			04/28/15 05:46	200
Bromobenzene	ND		200	50	ug/L			04/28/15 05:46	200
Bromodichloromethane	ND		200	34	ug/L			04/28/15 05:46	200
Bromoform	ND		200	56	ug/L			04/28/15 05:46	200
Bromomethane	ND		1000	62	ug/L			04/28/15 05:46	200
Carbon disulfide	ND		1000	86	ug/L			04/28/15 05:46	200
Carbon tetrachloride	ND		200	52	ug/L			04/28/15 05:46	200
Chlorobenzene	ND		200	28	ug/L			04/28/15 05:46	200
Chlorobromomethane	ND		200	80	ug/L			04/28/15 05:46	200
Vinyl acetate	ND		400	66	ug/L			04/28/15 05:46	200
Chloroethane	ND		200	68	ug/L			04/28/15 05:46	200
Chloroform	**170**	**J**	200	40	ug/L			04/28/15 05:46	200
Chloromethane	ND		200	36	ug/L			04/28/15 05:46	200
cis-1,3-Dichloropropene	ND		200	36	ug/L			04/28/15 05:46	200
Dibromochloromethane	ND		200	64	ug/L			04/28/15 05:46	200
Dibromomethane	ND		200	66	ug/L			04/28/15 05:46	200

Client Sample ID: MW-100B

Lab Sample ID: 500-94804-10

Date Collected: 04/15/15 11:45

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1000	40	ug/L			04/28/15 05:46	200
Ethylbenzene	ND		100	26	ug/L			04/28/15 05:46	200
Hexachlorobutadiene	ND		200	52	ug/L			04/28/15 05:46	200
Isopropylbenzene	ND		200	28	ug/L			04/28/15 05:46	200
m&p-Xylene	**110**	**J**	200	52	ug/L			04/28/15 05:46	200
Methyl Ethyl Ketone	ND		1000	290	ug/L			04/28/15 05:46	200
methyl isobutyl ketone	ND		1000	66	ug/L			04/28/15 05:46	200
Methyl tert-butyl ether	ND		200	48	ug/L			04/28/15 05:46	200
Methylene Chloride	ND		1000	140	ug/L			04/28/15 05:46	200
Naphthalene	ND		200	32	ug/L			04/28/15 05:46	200
n-Butylbenzene	ND		200	26	ug/L			04/28/15 05:46	200
N-Propylbenzene	ND		200	26	ug/L			04/28/15 05:46	200
o-Xylene	ND		100	14	ug/L			04/28/15 05:46	200
sec-Butylbenzene	ND		200	30	ug/L			04/28/15 05:46	200
Styrene	ND		200	20	ug/L			04/28/15 05:46	200
tert-Butylbenzene	ND		200	28	ug/L			04/28/15 05:46	200
Perchloroethylene	ND		200	34	ug/L			04/28/15 05:46	200
Toluene	**2800**		100	22	ug/L			04/28/15 05:46	200
trans-1,2-Dichloroethene	ND		200	50	ug/L			04/28/15 05:46	200
trans-1,3-Dichloropropene	ND		200	42	ug/L			04/28/15 05:46	200
Trichloroethylene	**220**		100	38	ug/L			04/28/15 05:46	200
Trichlorofluoromethane	ND		200	38	ug/L			04/28/15 05:46	200
Vinyl chloride	**98**	**J**	100	20	ug/L			04/28/15 05:46	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 05:46*	*200*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/28/15 05:46*	*200*
Dibromofluoromethane	*93*		*75 - 120*		*04/28/15 05:46*	*200*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 05:46*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**61000**		2000	240	ug/L			04/28/15 18:45	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 18:45*	*2000*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/28/15 18:45*	*2000*
Dibromofluoromethane	*92*		*75 - 120*		*04/28/15 18:45*	*2000*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 18:45*	*2000*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-101A

Date Collected: 04/15/15 08:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 06:13	1
1,1,1-Trichloroethane	**3.9**		1.0	0.20	ug/L			04/28/15 06:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 06:13	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 06:13	1
1,1-Dichloroethane	**0.59**	**J**	1.0	0.19	ug/L			04/28/15 06:13	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 06:13	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 06:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 06:13	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 06:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 06:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 06:13	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 06:13	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 06:13	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 06:13	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 06:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 06:13	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 06:13	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 06:13	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 06:13	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 06:13	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 06:13	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 06:13	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 06:13	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 06:13	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 06:13	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 06:13	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 06:13	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 06:13	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 06:13	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 06:13	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 06:13	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 06:13	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 06:13	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 06:13	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 06:13	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 06:13	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 06:13	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 06:13	1
cis-1,2-Dichloroethene	**48**		1.0	0.12	ug/L			04/28/15 06:13	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 06:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 06:13	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 06:13	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 06:13	1
Ethylbenzene	**0.34**	**J**	0.50	0.13	ug/L			04/28/15 06:13	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 06:13	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:13	1
m&p-Xylene	**1.2**		1.0	0.26	ug/L			04/28/15 06:13	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 06:13	1

Client Sample ID: MW-101A

Lab Sample ID: 500-94804-11

Date Collected: 04/15/15 08:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 06:13	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 06:13	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 06:13	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 06:13	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 06:13	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 06:13	1
o-Xylene	**0.32**	**J**	0.50	0.068	ug/L			04/28/15 06:13	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 06:13	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 06:13	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:13	1
Perchloroethylene	**2.5**		1.0	0.17	ug/L			04/28/15 06:13	1
Toluene	**2.5**		0.50	0.11	ug/L			04/28/15 06:13	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 06:13	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 06:13	1
Trichloroethylene	**5.9**		0.50	0.19	ug/L			04/28/15 06:13	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 06:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*		*04/28/15 06:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/28/15 06:13*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 06:13*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/28/15 06:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**710**		100	4.4	ug/L			04/28/15 19:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 19:13*	*20*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/28/15 19:13*	*20*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 19:13*	*20*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 19:13*	*20*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-101B

Date Collected: 04/14/15 11:50
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-12

Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.44	ug/L			04/21/15 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*		*04/21/15 14:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 13:04	1
1,1,1-Trichloroethane	**27**		1.0	0.20	ug/L			04/27/15 13:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 13:04	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 13:04	1
1,1-Dichloroethane	**0.93**	**J**	1.0	0.19	ug/L			04/27/15 13:04	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 13:04	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 13:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 13:04	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 13:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 13:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 13:04	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 13:04	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 13:04	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 13:04	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 13:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 13:04	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 13:04	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 13:04	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 13:04	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 13:04	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 13:04	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 13:04	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 13:04	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 13:04	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 13:04	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 13:04	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 13:04	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 13:04	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 13:04	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 13:04	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 13:04	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 13:04	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 13:04	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 13:04	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 13:04	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 13:04	1
Chloroform	ND		1.0	0.20	ug/L			04/27/15 13:04	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 13:04	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 13:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 13:04	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 13:04	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 13:04	1

Client Sample ID: MW-101B

Lab Sample ID: 500-94804-12

Date Collected: 04/14/15 11:50

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 13:04	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 13:04	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:04	1
m&p-Xylene	**0.58**	**J**	1.0	0.26	ug/L			04/27/15 13:04	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 13:04	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 13:04	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/27/15 13:04	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 13:04	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 13:04	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 13:04	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 13:04	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 13:04	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 13:04	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 13:04	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:04	1
Perchloroethylene	**2.1**		1.0	0.17	ug/L			04/27/15 13:04	1
Toluene	**4.2**		0.50	0.11	ug/L			04/27/15 13:04	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 13:04	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 13:04	1
Trichloroethylene	**19**		0.50	0.19	ug/L			04/27/15 13:04	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 13:04	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/27/15 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/27/15 13:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/27/15 13:04*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*04/27/15 13:04*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 13:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**680**		50	2.2	ug/L			04/28/15 12:06	10
cis-1,2-Dichloroethene	**510**		10	1.2	ug/L			04/28/15 12:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*		*04/28/15 12:06*	*10*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/28/15 12:06*	*10*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 12:06*	*10*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 12:06*	*10*

Client Sample ID: MW-102A

Lab Sample ID: 500-94804-13

Date Collected: 04/14/15 09:05

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 13:31	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 13:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 13:31	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 13:31	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 13:31	1
1,1-Dichloroethylene	**17**		1.0	0.31	ug/L			04/27/15 13:31	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 13:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 13:31	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 13:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 13:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 13:31	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 13:31	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 13:31	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 13:31	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 13:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 13:31	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 13:31	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 13:31	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 13:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 13:31	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 13:31	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 13:31	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 13:31	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 13:31	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 13:31	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 13:31	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 13:31	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 13:31	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 13:31	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 13:31	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 13:31	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 13:31	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 13:31	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 13:31	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 13:31	1
Chloroethane	**2.9**		1.0	0.34	ug/L			04/27/15 13:31	1
Chloroform	ND		1.0	0.20	ug/L			04/27/15 13:31	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 13:31	1
cis-1,2-Dichloroethene	**33**		1.0	0.12	ug/L			04/27/15 13:31	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 13:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 13:31	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 13:31	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 13:31	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 13:31	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 13:31	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:31	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 13:31	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 13:31	1

Client Sample ID: MW-102A

Lab Sample ID: 500-94804-13

Date Collected: 04/14/15 09:05

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 13:31	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/27/15 13:31	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 13:31	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 13:31	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 13:31	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 13:31	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 13:31	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 13:31	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 13:31	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 13:31	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 13:31	1
Toluene	**0.90**		0.50	0.11	ug/L			04/27/15 13:31	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 13:31	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 13:31	1
Trichloroethylene	**1.8**		0.50	0.19	ug/L			04/27/15 13:31	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 13:31	1
Vinyl chloride	**0.59**		0.50	0.10	ug/L			04/27/15 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 13:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/27/15 13:31*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*04/27/15 13:31*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/15 13:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**300**		25	1.1	ug/L			04/28/15 12:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/28/15 12:35*	*5*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*04/28/15 12:35*	*5*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 12:35*	*5*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 12:35*	*5*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-102B

Lab Sample ID: 500-94804-14

Date Collected: 04/14/15 10:00
Date Received: 04/17/15 10:20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 13:33	1
1,1,1-Trichloroethane	**5.0**		1.0	0.20	ug/L			04/28/15 13:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 13:33	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 13:33	1
1,1-Dichloroethane	**1.3**		1.0	0.19	ug/L			04/28/15 13:33	1
1,1-Dichloroethylene	**33**		1.0	0.31	ug/L			04/28/15 13:33	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 13:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 13:33	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 13:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 13:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 13:33	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 13:33	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 13:33	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 13:33	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 13:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 13:33	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 13:33	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 13:33	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 13:33	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 13:33	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 13:33	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 13:33	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 13:33	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 13:33	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 13:33	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 13:33	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 13:33	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 13:33	1
Bromoform	ND	*	1.0	0.28	ug/L			04/28/15 13:33	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 13:33	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 13:33	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 13:33	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 13:33	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 13:33	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 13:33	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 13:33	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 13:33	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 13:33	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 13:33	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			04/28/15 13:33	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 13:33	1
Dichlorodifluoromethane	ND	*	5.0	0.20	ug/L			04/28/15 13:33	1
Ethylbenzene	**0.71**		0.50	0.13	ug/L			04/28/15 13:33	1
Hexachlorobutadiene	ND	*	1.0	0.26	ug/L			04/28/15 13:33	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:33	1
m&p-Xylene	**2.0**		1.0	0.26	ug/L			04/28/15 13:33	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 13:33	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 13:33	1

Client Sample ID: MW-102B

Lab Sample ID: 500-94804-14

Date Collected: 04/14/15 10:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 13:33	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 13:33	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 13:33	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 13:33	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 13:33	1
o-Xylene	**0.64**		0.50	0.068	ug/L			04/28/15 13:33	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 13:33	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 13:33	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:33	1
Perchloroethylene	**1.5**		1.0	0.17	ug/L			04/28/15 13:33	1
Toluene	**27**		0.50	0.11	ug/L			04/28/15 13:33	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 13:33	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 13:33	1
Trichloroethylene	**0.85**		0.50	0.19	ug/L			04/28/15 13:33	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 13:33	1
Vinyl chloride	**3.0**		0.50	0.10	ug/L			04/28/15 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/28/15 13:33*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/28/15 13:33*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/28/15 13:33*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/28/15 13:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**1200**		50	2.2	ug/L			04/27/15 13:59	10
cis-1,2-Dichloroethene	**510**		10	1.2	ug/L			04/27/15 13:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/27/15 13:59*	*10*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/27/15 13:59*	*10*
Dibromofluoromethane	*92*		*75 - 120*		*04/27/15 13:59*	*10*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/15 13:59*	*10*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-102C (PDB)

Lab Sample ID: 500-94804-15

Date Collected: 04/14/15 10:40
Date Received: 04/17/15 10:20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	25	ug/L			04/27/15 14:26	100
1,1,1-Trichloroethane	**82**	**J**	100	20	ug/L			04/27/15 14:26	100
1,1,2,2-Tetrachloroethane	ND		100	23	ug/L			04/27/15 14:26	100
1,1,2-Trichloroethane	ND		100	28	ug/L			04/27/15 14:26	100
1,1-Dichloroethane	ND		100	19	ug/L			04/27/15 14:26	100
1,1-Dichloroethylene	**1200**		100	31	ug/L			04/27/15 14:26	100
1,1-Dichloropropene	ND		100	34	ug/L			04/27/15 14:26	100
1,2,3-Trichlorobenzene	ND		100	24	ug/L			04/27/15 14:26	100
1,2,3-Trichloropropane	ND		100	45	ug/L			04/27/15 14:26	100
1,2,4-Trichlorobenzene	ND		100	31	ug/L			04/27/15 14:26	100
1,2,4-Trimethylbenzene	ND		100	14	ug/L			04/27/15 14:26	100
1,2-Dibromo-3-Chloropropane	ND		500	87	ug/L			04/27/15 14:26	100
1,2-Dibromoethane	ND		100	36	ug/L			04/27/15 14:26	100
1,2-Dichlorobenzene	ND		100	27	ug/L			04/27/15 14:26	100
1,2-Dichloroethane	ND		100	28	ug/L			04/27/15 14:26	100
1,2-Dichloropropane	ND		100	20	ug/L			04/27/15 14:26	100
1,3,5-Trimethylbenzene	ND		100	18	ug/L			04/27/15 14:26	100
1,1,2-Trichlorotrifluoroethane	**13000**		500	22	ug/L			04/27/15 14:26	100
1,3-Dichlorobenzene	ND		100	15	ug/L			04/27/15 14:26	100
1,3-Dichloropropane	ND		100	13	ug/L			04/27/15 14:26	100
1,4-Dichlorobenzene	ND		100	15	ug/L			04/27/15 14:26	100
2,2-Dichloropropane	ND		100	32	ug/L			04/27/15 14:26	100
2-Chlorotoluene	ND		100	21	ug/L			04/27/15 14:26	100
2-Hexanone	ND		500	56	ug/L			04/27/15 14:26	100
4-Chlorotoluene	ND		100	20	ug/L			04/27/15 14:26	100
4-Isopropyltoluene	ND		200	17	ug/L			04/27/15 14:26	100
Acetone	ND		500	130	ug/L			04/27/15 14:26	100
Benzene	ND		50	7.4	ug/L			04/27/15 14:26	100
Bromobenzene	ND		100	25	ug/L			04/27/15 14:26	100
Bromodichloromethane	ND		100	17	ug/L			04/27/15 14:26	100
Bromoform	ND		100	28	ug/L			04/27/15 14:26	100
Bromomethane	ND		500	31	ug/L			04/27/15 14:26	100
Carbon disulfide	ND		500	43	ug/L			04/27/15 14:26	100
Carbon tetrachloride	ND		100	26	ug/L			04/27/15 14:26	100
Chlorobenzene	ND		100	14	ug/L			04/27/15 14:26	100
Chlorobromomethane	ND		100	40	ug/L			04/27/15 14:26	100
Vinyl acetate	ND		200	33	ug/L			04/27/15 14:26	100
Chloroethane	ND		100	34	ug/L			04/27/15 14:26	100
Chloroform	ND		100	20	ug/L			04/27/15 14:26	100
Chloromethane	ND		100	18	ug/L			04/27/15 14:26	100
cis-1,3-Dichloropropene	ND		100	18	ug/L			04/27/15 14:26	100
Dibromochloromethane	ND		100	32	ug/L			04/27/15 14:26	100
Dibromomethane	ND		100	33	ug/L			04/27/15 14:26	100
Dichlorodifluoromethane	ND		500	20	ug/L			04/27/15 14:26	100
Ethylbenzene	ND		50	13	ug/L			04/27/15 14:26	100
Hexachlorobutadiene	ND		100	26	ug/L			04/27/15 14:26	100
Isopropylbenzene	ND		100	14	ug/L			04/27/15 14:26	100
m&p-Xylene	**64**	**J**	100	26	ug/L			04/27/15 14:26	100
Methyl Ethyl Ketone	ND		500	150	ug/L			04/27/15 14:26	100

Client Sample ID: MW-102C (PDB)

Lab Sample ID: 500-94804-15

Date Collected: 04/14/15 10:40

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		500	33	ug/L			04/27/15 14:26	100
Methyl tert-butyl ether	ND		100	24	ug/L			04/27/15 14:26	100
Methylene Chloride	ND		500	68	ug/L			04/27/15 14:26	100
Naphthalene	ND		100	16	ug/L			04/27/15 14:26	100
n-Butylbenzene	ND		100	13	ug/L			04/27/15 14:26	100
N-Propylbenzene	ND		100	13	ug/L			04/27/15 14:26	100
o-Xylene	**25**	**J**	50	6.8	ug/L			04/27/15 14:26	100
sec-Butylbenzene	ND		100	15	ug/L			04/27/15 14:26	100
Styrene	ND		100	10	ug/L			04/27/15 14:26	100
tert-Butylbenzene	ND		100	14	ug/L			04/27/15 14:26	100
Perchloroethylene	ND		100	17	ug/L			04/27/15 14:26	100
Toluene	**2000**		50	11	ug/L			04/27/15 14:26	100
trans-1,2-Dichloroethene	ND		100	25	ug/L			04/27/15 14:26	100
trans-1,3-Dichloropropene	ND		100	21	ug/L			04/27/15 14:26	100
Trichloroethylene	**570**		50	19	ug/L			04/27/15 14:26	100
Trichlorofluoromethane	ND		100	19	ug/L			04/27/15 14:26	100
Vinyl chloride	ND		50	10	ug/L			04/27/15 14:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 14:26*	*100*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/27/15 14:26*	*100*
Dibromofluoromethane	*90*		*75 - 120*		*04/27/15 14:26*	*100*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/15 14:26*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**44000**		1000	120	ug/L			04/28/15 13:04	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*		*04/28/15 13:04*	*1000*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/28/15 13:04*	*1000*
Dibromofluoromethane	*89*		*75 - 120*		*04/28/15 13:04*	*1000*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 13:04*	*1000*

Client Sample ID: MW-103A
Date Collected: 04/14/15 17:15
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50	13	ug/L			04/27/15 14:54	50
1,1,1-Trichloroethane	ND		50	10	ug/L			04/27/15 14:54	50
1,1,2,2-Tetrachloroethane	ND		50	12	ug/L			04/27/15 14:54	50
1,1,2-Trichloroethane	ND		50	14	ug/L			04/27/15 14:54	50
1,1-Dichloroethane	ND		50	9.5	ug/L			04/27/15 14:54	50
1,1-Dichloroethylene	ND		50	16	ug/L			04/27/15 14:54	50
1,1-Dichloropropene	ND		50	17	ug/L			04/27/15 14:54	50
1,2,3-Trichlorobenzene	ND		50	12	ug/L			04/27/15 14:54	50
1,2,3-Trichloropropane	ND		50	23	ug/L			04/27/15 14:54	50
1,2,4-Trichlorobenzene	ND		50	16	ug/L			04/27/15 14:54	50
1,2,4-Trimethylbenzene	ND		50	7.0	ug/L			04/27/15 14:54	50
1,2-Dibromo-3-Chloropropane	ND		250	44	ug/L			04/27/15 14:54	50
1,2-Dibromoethane	ND		50	18	ug/L			04/27/15 14:54	50
1,2-Dichlorobenzene	ND		50	14	ug/L			04/27/15 14:54	50
1,2-Dichloroethane	ND		50	14	ug/L			04/27/15 14:54	50
1,2-Dichloropropane	ND		50	10	ug/L			04/27/15 14:54	50
1,3,5-Trimethylbenzene	ND		50	9.0	ug/L			04/27/15 14:54	50
1,3-Dichlorobenzene	ND		50	7.5	ug/L			04/27/15 14:54	50
1,3-Dichloropropane	ND		50	6.5	ug/L			04/27/15 14:54	50
1,4-Dichlorobenzene	ND		50	7.5	ug/L			04/27/15 14:54	50
2,2-Dichloropropane	ND		50	16	ug/L			04/27/15 14:54	50
2-Chlorotoluene	ND		50	11	ug/L			04/27/15 14:54	50
2-Hexanone	ND		250	28	ug/L			04/27/15 14:54	50
4-Chlorotoluene	ND		50	10	ug/L			04/27/15 14:54	50
4-Isopropyltoluene	ND		100	8.5	ug/L			04/27/15 14:54	50
Acetone	ND		250	65	ug/L			04/27/15 14:54	50
Benzene	ND		25	3.7	ug/L			04/27/15 14:54	50
Bromobenzene	ND		50	13	ug/L			04/27/15 14:54	50
Bromodichloromethane	ND		50	8.5	ug/L			04/27/15 14:54	50
Bromoform	ND		50	14	ug/L			04/27/15 14:54	50
Bromomethane	ND		250	16	ug/L			04/27/15 14:54	50
Carbon disulfide	ND		250	22	ug/L			04/27/15 14:54	50
Carbon tetrachloride	ND		50	13	ug/L			04/27/15 14:54	50
Chlorobenzene	ND		50	7.0	ug/L			04/27/15 14:54	50
Chlorobromomethane	ND		50	20	ug/L			04/27/15 14:54	50
Vinyl acetate	ND		100	17	ug/L			04/27/15 14:54	50
Chloroethane	ND		50	17	ug/L			04/27/15 14:54	50
Chloroform	ND		50	10	ug/L			04/27/15 14:54	50
Chloromethane	ND		50	9.0	ug/L			04/27/15 14:54	50
cis-1,2-Dichloroethene	**140**		50	6.0	ug/L			04/27/15 14:54	50
cis-1,3-Dichloropropene	ND		50	9.0	ug/L			04/27/15 14:54	50
Dibromochloromethane	ND		50	16	ug/L			04/27/15 14:54	50
Dibromomethane	ND		50	17	ug/L			04/27/15 14:54	50
Dichlorodifluoromethane	ND		250	10	ug/L			04/27/15 14:54	50
Ethylbenzene	ND		25	6.5	ug/L			04/27/15 14:54	50
Hexachlorobutadiene	ND		50	13	ug/L			04/27/15 14:54	50
Isopropylbenzene	ND		50	7.0	ug/L			04/27/15 14:54	50
m&p-Xylene	ND		50	13	ug/L			04/27/15 14:54	50
Methyl Ethyl Ketone	ND		250	74	ug/L			04/27/15 14:54	50

Client Sample ID: MW-103A

Lab Sample ID: 500-94804-16

Date Collected: 04/14/15 17:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		250	17	ug/L			04/27/15 14:54	50
Methyl tert-butyl ether	ND		50	12	ug/L			04/27/15 14:54	50
Methylene Chloride	ND		250	34	ug/L			04/27/15 14:54	50
Naphthalene	ND		50	8.0	ug/L			04/27/15 14:54	50
n-Butylbenzene	ND		50	6.5	ug/L			04/27/15 14:54	50
N-Propylbenzene	ND		50	6.5	ug/L			04/27/15 14:54	50
o-Xylene	ND		25	3.4	ug/L			04/27/15 14:54	50
sec-Butylbenzene	ND		50	7.5	ug/L			04/27/15 14:54	50
Styrene	ND		50	5.0	ug/L			04/27/15 14:54	50
tert-Butylbenzene	ND		50	7.0	ug/L			04/27/15 14:54	50
Perchloroethylene	ND		50	8.5	ug/L			04/27/15 14:54	50
Toluene	**18**	**J**	25	5.5	ug/L			04/27/15 14:54	50
trans-1,2-Dichloroethene	ND		50	13	ug/L			04/27/15 14:54	50
trans-1,3-Dichloropropene	ND		50	11	ug/L			04/27/15 14:54	50
Trichloroethylene	ND		25	9.5	ug/L			04/27/15 14:54	50
Trichlorofluoromethane	ND		50	9.5	ug/L			04/27/15 14:54	50
Vinyl chloride	ND		25	5.0	ug/L			04/27/15 14:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/27/15 14:54*	*50*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/27/15 14:54*	*50*
Dibromofluoromethane	*90*		*75 - 120*		*04/27/15 14:54*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/15 14:54*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**12000**		2500	110	ug/L			04/28/15 13:32	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 13:32*	*500*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/28/15 13:32*	*500*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 13:32*	*500*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 13:32*	*500*

Client Sample ID: MW-103B

Lab Sample ID: 500-94804-17

Date Collected: 04/14/15 14:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 14:01	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 14:01	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 14:01	1
1,1-Dichloroethane	**2.2**		1.0	0.19	ug/L			04/28/15 14:01	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 14:01	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 14:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 14:01	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 14:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 14:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 14:01	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 14:01	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 14:01	1
1,2-Dichloroethane	**1.9**		1.0	0.28	ug/L			04/28/15 14:01	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 14:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 14:01	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 14:01	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 14:01	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 14:01	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 14:01	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 14:01	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 14:01	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 14:01	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 14:01	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 14:01	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 14:01	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 14:01	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 14:01	1
Bromoform	ND	*	1.0	0.28	ug/L			04/28/15 14:01	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 14:01	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 14:01	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 14:01	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 14:01	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 14:01	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 14:01	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 14:01	1
Chloroform	**0.64**	**J**	1.0	0.20	ug/L			04/28/15 14:01	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 14:01	1
cis-1,2-Dichloroethene	**150**		1.0	0.12	ug/L			04/28/15 14:01	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 14:01	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			04/28/15 14:01	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 14:01	1
Dichlorodifluoromethane	ND	*	5.0	0.20	ug/L			04/28/15 14:01	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 14:01	1
Hexachlorobutadiene	ND	*	1.0	0.26	ug/L			04/28/15 14:01	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:01	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 14:01	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 14:01	1

Client Sample ID: MW-103B

Lab Sample ID: 500-94804-17

Date Collected: 04/14/15 14:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 14:01	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 14:01	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 14:01	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 14:01	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 14:01	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 14:01	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 14:01	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 14:01	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 14:01	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:01	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 14:01	1
Toluene	**1.1**		0.50	0.11	ug/L			04/28/15 14:01	1
trans-1,2-Dichloroethene	**0.72**	**J**	1.0	0.25	ug/L			04/28/15 14:01	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 14:01	1
Trichloroethylene	**8.1**		0.50	0.19	ug/L			04/28/15 14:01	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 14:01	1
Vinyl chloride	**13**		0.50	0.10	ug/L			04/28/15 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/28/15 14:01*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*04/28/15 14:01*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/28/15 14:01*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/28/15 14:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**3000**		100	4.4	ug/L			04/27/15 15:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/27/15 15:22*	*20*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/27/15 15:22*	*20*
Dibromofluoromethane	*90*		*75 - 120*		*04/27/15 15:22*	*20*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 15:22*	*20*

Client Sample ID: MW-103C
Date Collected: 04/14/15 15:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	5.0	ug/L			04/27/15 15:51	20
1,1,1-Trichloroethane	ND		20	4.0	ug/L			04/27/15 15:51	20
1,1,2,2-Tetrachloroethane	ND		20	4.6	ug/L			04/27/15 15:51	20
1,1,2-Trichloroethane	ND		20	5.6	ug/L			04/27/15 15:51	20
1,1-Dichloroethane	ND		20	3.8	ug/L			04/27/15 15:51	20
1,1-Dichloroethylene	ND		20	6.2	ug/L			04/27/15 15:51	20
1,1-Dichloropropene	ND		20	6.8	ug/L			04/27/15 15:51	20
1,2,3-Trichlorobenzene	ND		20	4.8	ug/L			04/27/15 15:51	20
1,2,3-Trichloropropane	ND		20	9.0	ug/L			04/27/15 15:51	20
1,2,4-Trichlorobenzene	ND		20	6.2	ug/L			04/27/15 15:51	20
1,2,4-Trimethylbenzene	ND		20	2.8	ug/L			04/27/15 15:51	20
1,2-Dibromo-3-Chloropropane	ND		100	17	ug/L			04/27/15 15:51	20
1,2-Dibromoethane	ND		20	7.2	ug/L			04/27/15 15:51	20
1,2-Dichlorobenzene	ND		20	5.4	ug/L			04/27/15 15:51	20
1,2-Dichloroethane	ND		20	5.6	ug/L			04/27/15 15:51	20
1,2-Dichloropropane	ND		20	4.0	ug/L			04/27/15 15:51	20
1,3,5-Trimethylbenzene	ND		20	3.6	ug/L			04/27/15 15:51	20
1,3-Dichlorobenzene	ND		20	3.0	ug/L			04/27/15 15:51	20
1,3-Dichloropropane	ND		20	2.6	ug/L			04/27/15 15:51	20
1,4-Dichlorobenzene	ND		20	3.0	ug/L			04/27/15 15:51	20
2,2-Dichloropropane	ND		20	6.4	ug/L			04/27/15 15:51	20
2-Chlorotoluene	ND		20	4.2	ug/L			04/27/15 15:51	20
2-Hexanone	ND		100	11	ug/L			04/27/15 15:51	20
4-Chlorotoluene	ND		20	4.0	ug/L			04/27/15 15:51	20
4-Isopropyltoluene	ND		40	3.4	ug/L			04/27/15 15:51	20
Acetone	ND		100	26	ug/L			04/27/15 15:51	20
Benzene	ND		10	1.5	ug/L			04/27/15 15:51	20
Bromobenzene	ND		20	5.0	ug/L			04/27/15 15:51	20
Bromodichloromethane	ND		20	3.4	ug/L			04/27/15 15:51	20
Bromoform	ND		20	5.6	ug/L			04/27/15 15:51	20
Bromomethane	ND		100	6.2	ug/L			04/27/15 15:51	20
Carbon disulfide	ND		100	8.6	ug/L			04/27/15 15:51	20
Carbon tetrachloride	ND		20	5.2	ug/L			04/27/15 15:51	20
Chlorobenzene	ND		20	2.8	ug/L			04/27/15 15:51	20
Chlorobromomethane	ND		20	8.0	ug/L			04/27/15 15:51	20
Vinyl acetate	ND		40	6.6	ug/L			04/27/15 15:51	20
Chloroethane	ND		20	6.8	ug/L			04/27/15 15:51	20
Chloroform	ND		20	4.0	ug/L			04/27/15 15:51	20
Chloromethane	ND		20	3.6	ug/L			04/27/15 15:51	20
cis-1,2-Dichloroethene	**150**		20	2.4	ug/L			04/27/15 15:51	20
cis-1,3-Dichloropropene	ND		20	3.6	ug/L			04/27/15 15:51	20
Dibromochloromethane	ND		20	6.4	ug/L			04/27/15 15:51	20
Dibromomethane	ND		20	6.6	ug/L			04/27/15 15:51	20
Dichlorodifluoromethane	ND		100	4.0	ug/L			04/27/15 15:51	20
Ethylbenzene	ND		10	2.6	ug/L			04/27/15 15:51	20
Hexachlorobutadiene	ND		20	5.2	ug/L			04/27/15 15:51	20
Isopropylbenzene	ND		20	2.8	ug/L			04/27/15 15:51	20
m&p-Xylene	ND		20	5.2	ug/L			04/27/15 15:51	20
Methyl Ethyl Ketone	ND		100	29	ug/L			04/27/15 15:51	20

Client Sample ID: MW-103C

Lab Sample ID: 500-94804-18

Date Collected: 04/14/15 15:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		100	6.6	ug/L			04/27/15 15:51	20
Methyl tert-butyl ether	ND		20	4.8	ug/L			04/27/15 15:51	20
Methylene Chloride	ND		100	14	ug/L			04/27/15 15:51	20
Naphthalene	ND		20	3.2	ug/L			04/27/15 15:51	20
n-Butylbenzene	ND		20	2.6	ug/L			04/27/15 15:51	20
N-Propylbenzene	ND		20	2.6	ug/L			04/27/15 15:51	20
o-Xylene	ND		10	1.4	ug/L			04/27/15 15:51	20
sec-Butylbenzene	ND		20	3.0	ug/L			04/27/15 15:51	20
Styrene	ND		20	2.0	ug/L			04/27/15 15:51	20
tert-Butylbenzene	ND		20	2.8	ug/L			04/27/15 15:51	20
Perchloroethylene	ND		20	3.4	ug/L			04/27/15 15:51	20
Toluene	**7.1**	**J**	10	2.2	ug/L			04/27/15 15:51	20
trans-1,2-Dichloroethene	ND		20	5.0	ug/L			04/27/15 15:51	20
trans-1,3-Dichloropropene	ND		20	4.2	ug/L			04/27/15 15:51	20
Trichloroethylene	**20**		10	3.8	ug/L			04/27/15 15:51	20
Trichlorofluoromethane	ND		20	3.8	ug/L			04/27/15 15:51	20
Vinyl chloride	**11**		10	2.0	ug/L			04/27/15 15:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/27/15 15:51*	*20*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/27/15 15:51*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*04/27/15 15:51*	*20*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 15:51*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**7900**		1000	44	ug/L			04/28/15 14:01	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/28/15 14:01*	*200*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/28/15 14:01*	*200*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 14:01*	*200*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 14:01*	*200*

Client Sample ID: MW-104A

Lab Sample ID: 500-94804-19

Date Collected: 04/14/15 14:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 16:19	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 16:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 16:19	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 16:19	1
1,1-Dichloroethane	**2.0**		1.0	0.19	ug/L			04/27/15 16:19	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 16:19	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 16:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 16:19	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 16:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 16:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 16:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 16:19	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 16:19	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 16:19	1
1,2-Dichloroethane	**2.1**		1.0	0.28	ug/L			04/27/15 16:19	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 16:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 16:19	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 16:19	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 16:19	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 16:19	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 16:19	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 16:19	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 16:19	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 16:19	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 16:19	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 16:19	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 16:19	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 16:19	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 16:19	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 16:19	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 16:19	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 16:19	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 16:19	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 16:19	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 16:19	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 16:19	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 16:19	1
Chloroform	**0.81**	**J**	1.0	0.20	ug/L			04/27/15 16:19	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 16:19	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 16:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 16:19	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 16:19	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 16:19	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 16:19	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 16:19	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 16:19	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 16:19	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 16:19	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 16:19	1

Client Sample ID: MW-104A

Lab Sample ID: 500-94804-19

Date Collected: 04/14/15 14:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/27/15 16:19	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 16:19	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 16:19	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 16:19	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 16:19	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 16:19	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 16:19	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 16:19	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 16:19	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 16:19	1
Toluene	**0.49**	**J**	0.50	0.11	ug/L			04/27/15 16:19	1
trans-1,2-Dichloroethene	**1.8**		1.0	0.25	ug/L			04/27/15 16:19	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 16:19	1
Trichloroethylene	**1.5**		0.50	0.19	ug/L			04/27/15 16:19	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 16:19	1
Vinyl chloride	**25**		0.50	0.10	ug/L			04/27/15 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 16:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/27/15 16:19*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*04/27/15 16:19*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 16:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**390**		50	2.2	ug/L			04/28/15 14:30	10
cis-1,2-Dichloroethene	**370**		10	1.2	ug/L			04/28/15 14:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 14:30*	*10*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/28/15 14:30*	*10*
Dibromofluoromethane	*90*		*75 - 120*		*04/28/15 14:30*	*10*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 14:30*	*10*

Client Sample ID: MW-104B

Lab Sample ID: 500-94804-20

Date Collected: 04/14/15 15:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L			04/27/15 16:46	2
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			04/27/15 16:46	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.46	ug/L			04/27/15 16:46	2
1,1,2-Trichloroethane	ND		2.0	0.56	ug/L			04/27/15 16:46	2
1,1-Dichloroethane	ND		2.0	0.38	ug/L			04/27/15 16:46	2
1,1-Dichloroethylene	ND		2.0	0.62	ug/L			04/27/15 16:46	2
1,1-Dichloropropene	ND		2.0	0.68	ug/L			04/27/15 16:46	2
1,2,3-Trichlorobenzene	ND		2.0	0.48	ug/L			04/27/15 16:46	2
1,2,3-Trichloropropane	ND		2.0	0.90	ug/L			04/27/15 16:46	2
1,2,4-Trichlorobenzene	ND		2.0	0.62	ug/L			04/27/15 16:46	2
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/L			04/27/15 16:46	2
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/L			04/27/15 16:46	2
1,2-Dibromoethane	ND		2.0	0.72	ug/L			04/27/15 16:46	2
1,2-Dichlorobenzene	ND		2.0	0.54	ug/L			04/27/15 16:46	2
1,2-Dichloroethane	ND		2.0	0.56	ug/L			04/27/15 16:46	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			04/27/15 16:46	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			04/27/15 16:46	2
1,3-Dichlorobenzene	ND		2.0	0.30	ug/L			04/27/15 16:46	2
1,3-Dichloropropane	ND		2.0	0.26	ug/L			04/27/15 16:46	2
1,4-Dichlorobenzene	ND		2.0	0.30	ug/L			04/27/15 16:46	2
2,2-Dichloropropane	ND		2.0	0.64	ug/L			04/27/15 16:46	2
2-Chlorotoluene	ND		2.0	0.42	ug/L			04/27/15 16:46	2
2-Hexanone	ND		10	1.1	ug/L			04/27/15 16:46	2
4-Chlorotoluene	ND		2.0	0.40	ug/L			04/27/15 16:46	2
4-Isopropyltoluene	ND		4.0	0.34	ug/L			04/27/15 16:46	2
Acetone	ND		10	2.6	ug/L			04/27/15 16:46	2
Benzene	ND		1.0	0.15	ug/L			04/27/15 16:46	2
Bromobenzene	ND		2.0	0.50	ug/L			04/27/15 16:46	2
Bromodichloromethane	ND		2.0	0.34	ug/L			04/27/15 16:46	2
Bromoform	ND		2.0	0.56	ug/L			04/27/15 16:46	2
Bromomethane	ND		10	0.62	ug/L			04/27/15 16:46	2
Carbon disulfide	ND		10	0.86	ug/L			04/27/15 16:46	2
Carbon tetrachloride	ND		2.0	0.52	ug/L			04/27/15 16:46	2
Chlorobenzene	ND		2.0	0.28	ug/L			04/27/15 16:46	2
Chlorobromomethane	ND		2.0	0.80	ug/L			04/27/15 16:46	2
Vinyl acetate	ND		4.0	0.66	ug/L			04/27/15 16:46	2
Chloroethane	ND		2.0	0.68	ug/L			04/27/15 16:46	2
Chloroform	ND		2.0	0.40	ug/L			04/27/15 16:46	2
Chloromethane	ND		2.0	0.36	ug/L			04/27/15 16:46	2
cis-1,2-Dichloroethene	**29**		2.0	0.24	ug/L			04/27/15 16:46	2
cis-1,3-Dichloropropene	ND		2.0	0.36	ug/L			04/27/15 16:46	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/27/15 16:46	2
Dibromomethane	ND		2.0	0.66	ug/L			04/27/15 16:46	2
Dichlorodifluoromethane	ND		10	0.40	ug/L			04/27/15 16:46	2
Ethylbenzene	ND		1.0	0.26	ug/L			04/27/15 16:46	2
Hexachlorobutadiene	ND		2.0	0.52	ug/L			04/27/15 16:46	2
Isopropylbenzene	ND		2.0	0.28	ug/L			04/27/15 16:46	2
m&p-Xylene	ND		2.0	0.52	ug/L			04/27/15 16:46	2
Methyl Ethyl Ketone	ND		10	2.9	ug/L			04/27/15 16:46	2

Client Sample ID: MW-104B

Lab Sample ID: 500-94804-20

Date Collected: 04/14/15 15:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		10	0.66	ug/L			04/27/15 16:46	2
Methyl tert-butyl ether	**2.0**		2.0	0.48	ug/L			04/27/15 16:46	2
Methylene Chloride	ND		10	1.4	ug/L			04/27/15 16:46	2
Naphthalene	ND		2.0	0.32	ug/L			04/27/15 16:46	2
n-Butylbenzene	ND		2.0	0.26	ug/L			04/27/15 16:46	2
N-Propylbenzene	ND		2.0	0.26	ug/L			04/27/15 16:46	2
o-Xylene	ND		1.0	0.14	ug/L			04/27/15 16:46	2
sec-Butylbenzene	ND		2.0	0.30	ug/L			04/27/15 16:46	2
Styrene	ND		2.0	0.20	ug/L			04/27/15 16:46	2
tert-Butylbenzene	ND		2.0	0.28	ug/L			04/27/15 16:46	2
Perchloroethylene	ND		2.0	0.34	ug/L			04/27/15 16:46	2
Toluene	**0.91**	**J**	1.0	0.22	ug/L			04/27/15 16:46	2
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L			04/27/15 16:46	2
trans-1,3-Dichloropropene	ND		2.0	0.42	ug/L			04/27/15 16:46	2
Trichloroethylene	**4.6**		1.0	0.38	ug/L			04/27/15 16:46	2
Trichlorofluoromethane	ND		2.0	0.38	ug/L			04/27/15 16:46	2
Vinyl chloride	**1.3**		1.0	0.20	ug/L			04/27/15 16:46	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown alkane	*650*	*T J*	*ug/L*		*2.74*			*04/27/15 16:46*	*2*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*3100*	*T J N*	*ug/L*		*3.65*	*354-23-4*		*04/27/15 16:46*	*2*
Isopropyl alcohol	*280*		*ug/L*		*4.20*	*67-63-0*		*04/27/15 16:46*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 16:46*	*2*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/27/15 16:46*	*2*
Dibromofluoromethane	*92*		*75 - 120*		*04/27/15 16:46*	*2*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/27/15 16:46*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**610**		100	4.4	ug/L			04/28/15 14:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*		*04/28/15 14:59*	*20*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*04/28/15 14:59*	*20*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 14:59*	*20*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 14:59*	*20*

Client Sample ID: MW-104C (PDB)

Lab Sample ID: 500-94804-21

Date Collected: 04/14/15 16:20

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		20	4.4	ug/L			04/21/15 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*04/21/15 12:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 14:30	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 14:30	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 14:30	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 14:30	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 14:30	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 14:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 14:30	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 14:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 14:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 14:30	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 14:30	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 14:30	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 14:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 14:30	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 14:30	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 14:30	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 14:30	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 14:30	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 14:30	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 14:30	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 14:30	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 14:30	1
Benzene	**0.54**		0.50	0.074	ug/L			04/28/15 14:30	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 14:30	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 14:30	1
Bromoform	ND	*	1.0	0.28	ug/L			04/28/15 14:30	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 14:30	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 14:30	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 14:30	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 14:30	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 14:30	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 14:30	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 14:30	1
Chloroform	**1.7**		1.0	0.20	ug/L			04/28/15 14:30	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 14:30	1
cis-1,2-Dichloroethene	**53**		1.0	0.12	ug/L			04/28/15 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 14:30	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			04/28/15 14:30	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 14:30	1

Client Sample ID: MW-104C (PDB)

Lab Sample ID: 500-94804-21

Date Collected: 04/14/15 16:20

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	5.0	0.20	ug/L			04/28/15 14:30	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 14:30	1
Hexachlorobutadiene	ND	*	1.0	0.26	ug/L			04/28/15 14:30	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:30	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 14:30	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 14:30	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 14:30	1
Methyl tert-butyl ether	**4.2**		1.0	0.24	ug/L			04/28/15 14:30	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 14:30	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 14:30	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 14:30	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 14:30	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 14:30	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 14:30	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 14:30	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 14:30	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 14:30	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 14:30	1
Trichloroethylene	**8.5**		0.50	0.19	ug/L			04/28/15 14:30	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 14:30	1
Vinyl chloride	**1.4**		0.50	0.10	ug/L			04/28/15 14:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethene, chlorotrifluoro-	*4800*	*T J N*	*ug/L*		*1.29*	*79-38-9*		*04/28/15 14:30*	*1*
Unknown alkane	*1300*	*T J*	*ug/L*		*1.40*			*04/28/15 14:30*	*1*
Chlorine dioxide	*400*	*T J N*	*ug/L*		*2.10*	*10049-04-4*		*04/28/15 14:30*	*1*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*8000*	*T J N*	*ug/L*		*2.80*	*354-23-4*		*04/28/15 14:30*	*1*
Unknown alkane	*270*	*T J*	*ug/L*		*3.56*			*04/28/15 14:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/28/15 14:30*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/28/15 14:30*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/28/15 14:30*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/28/15 14:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**1800**		50	2.2	ug/L			04/27/15 17:14	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethylene oxide	*770000*	*T J N*	*ug/L*		*1.58*	*75-21-8*		*04/27/15 17:14*	*10*
Ethanol	*5700*		*ug/L*		*3.56*	*64-17-5*		*04/27/15 17:14*	*10*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*6500*	*T J N*	*ug/L*		*3.65*	*354-23-4*		*04/27/15 17:14*	*10*
Hexane	*1.9*	*J*	*ug/L*		*5.20*	*110-54-3*		*04/27/15 17:14*	*10*
Tetrahydrofuran	*16*	*J*	*ug/L*		*6.37*	*109-99-9*		*04/27/15 17:14*	*10*
Cyclohexane	*2.5*	*J*	*ug/L*		*6.69*	*110-82-7*		*04/27/15 17:14*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 17:14*	*10*

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-104C (PDB)
Date Collected: 04/14/15 16:20
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		04/27/15 17:14	10
Dibromofluoromethane	91		75 - 120		04/27/15 17:14	10
Toluene-d8 (Surr)	98		75 - 120		04/27/15 17:14	10

Client Sample ID: MW-105C

Lab Sample ID: 500-94804-22

Date Collected: 04/13/15 16:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 15:59	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 15:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 15:59	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 15:59	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 15:59	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 15:59	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 15:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 15:59	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 15:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 15:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 15:59	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 15:59	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 15:59	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 15:59	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 15:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 15:59	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 15:59	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 15:59	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 15:59	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 15:59	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 15:59	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 15:59	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 15:59	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 15:59	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 15:59	1
Acetone	**5.6**		5.0	1.3	ug/L			04/24/15 15:59	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 15:59	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 15:59	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 15:59	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 15:59	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 15:59	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 15:59	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 15:59	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 15:59	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 15:59	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 15:59	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 15:59	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 15:59	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 15:59	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 15:59	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 15:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 15:59	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 15:59	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 15:59	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 15:59	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 15:59	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 15:59	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 15:59	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-105C
Date Collected: 04/13/15 16:00
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 15:59	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 15:59	1
Methyl tert-butyl ether	**0.89**	**J**	1.0	0.24	ug/L			04/24/15 15:59	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 15:59	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 15:59	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 15:59	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 15:59	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 15:59	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 15:59	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 15:59	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 15:59	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 15:59	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 15:59	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 15:59	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 15:59	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 15:59	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 15:59	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/24/15 15:59*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 15:59*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/24/15 15:59*	*1*
Toluene-d8 (Surr)	*86*		*75 - 120*		*04/24/15 15:59*	*1*

Client Sample ID: MW-10B

Lab Sample ID: 500-94804-23

Date Collected: 04/14/15 10:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 17:41	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 17:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 17:41	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 17:41	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 17:41	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 17:41	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 17:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 17:41	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 17:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 17:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 17:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 17:41	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 17:41	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 17:41	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 17:41	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 17:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 17:41	1
1,1,2-Trichlorotrifluoroethane	**180**		5.0	0.22	ug/L			04/27/15 17:41	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 17:41	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 17:41	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 17:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 17:41	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 17:41	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 17:41	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 17:41	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 17:41	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 17:41	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 17:41	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 17:41	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 17:41	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 17:41	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 17:41	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 17:41	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 17:41	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 17:41	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 17:41	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 17:41	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 17:41	1
Chloroform	**0.74**	**J**	1.0	0.20	ug/L			04/27/15 17:41	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 17:41	1
cis-1,2-Dichloroethene	**15**		1.0	0.12	ug/L			04/27/15 17:41	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 17:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 17:41	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 17:41	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 17:41	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 17:41	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 17:41	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 17:41	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 17:41	1

Client Sample ID: MW-10B

Lab Sample ID: 500-94804-23

Date Collected: 04/14/15 10:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 17:41	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 17:41	1
Methyl tert-butyl ether	**2.3**		1.0	0.24	ug/L			04/27/15 17:41	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 17:41	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 17:41	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 17:41	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 17:41	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 17:41	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 17:41	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 17:41	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 17:41	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 17:41	1
Toluene	**0.31**	**J**	0.50	0.11	ug/L			04/27/15 17:41	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 17:41	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 17:41	1
Trichloroethylene	**1.1**		0.50	0.19	ug/L			04/27/15 17:41	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 17:41	1
Vinyl chloride	**0.52**		0.50	0.10	ug/L			04/27/15 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*		*04/27/15 17:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/27/15 17:41*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/27/15 17:41*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 17:41*	*1*

Client Sample ID: MW-10D

Lab Sample ID: 500-94804-24

Date Collected: 04/14/15 09:15

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 18:09	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 18:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 18:09	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 18:09	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 18:09	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 18:09	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 18:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 18:09	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 18:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 18:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 18:09	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 18:09	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 18:09	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 18:09	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 18:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 18:09	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 18:09	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 18:09	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 18:09	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 18:09	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 18:09	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 18:09	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 18:09	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 18:09	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 18:09	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 18:09	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 18:09	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 18:09	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 18:09	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 18:09	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 18:09	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 18:09	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 18:09	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 18:09	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 18:09	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 18:09	1
Chloroform	**0.83**	**J**	1.0	0.20	ug/L			04/27/15 18:09	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 18:09	1
cis-1,2-Dichloroethene	**64**		1.0	0.12	ug/L			04/27/15 18:09	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 18:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 18:09	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 18:09	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 18:09	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 18:09	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 18:09	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:09	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 18:09	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 18:09	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-10D

Date Collected: 04/14/15 09:15
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-24

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 18:09	1
Methyl tert-butyl ether	**1.2**		1.0	0.24	ug/L			04/27/15 18:09	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 18:09	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 18:09	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 18:09	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 18:09	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 18:09	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 18:09	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 18:09	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:09	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 18:09	1
Toluene	**0.30**	**J**	0.50	0.11	ug/L			04/27/15 18:09	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 18:09	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 18:09	1
Trichloroethylene	**2.5**		0.50	0.19	ug/L			04/27/15 18:09	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 18:09	1
Vinyl chloride	**3.0**		0.50	0.10	ug/L			04/27/15 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/27/15 18:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/27/15 18:09*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*04/27/15 18:09*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/27/15 18:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**700**		50	2.2	ug/L			04/28/15 15:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 15:28*	*10*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/28/15 15:28*	*10*
Dibromofluoromethane	*89*		*75 - 120*		*04/28/15 15:28*	*10*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 15:28*	*10*

Client Sample ID: MW-16B

Lab Sample ID: 500-94804-25

Date Collected: 04/14/15 12:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 18:37	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 18:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 18:37	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 18:37	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 18:37	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 18:37	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 18:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 18:37	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 18:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 18:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 18:37	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 18:37	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 18:37	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 18:37	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 18:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 18:37	1
1,1,2-Trichlorotrifluoroethane	**22**		5.0	0.22	ug/L			04/27/15 18:37	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 18:37	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 18:37	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 18:37	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 18:37	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 18:37	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 18:37	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 18:37	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 18:37	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 18:37	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 18:37	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 18:37	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 18:37	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 18:37	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 18:37	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 18:37	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 18:37	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 18:37	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 18:37	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 18:37	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 18:37	1
Chloroform	**0.96**	**J**	1.0	0.20	ug/L			04/27/15 18:37	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 18:37	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.12	ug/L			04/27/15 18:37	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 18:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 18:37	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 18:37	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 18:37	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 18:37	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 18:37	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:37	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 18:37	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-16B

Lab Sample ID: 500-94804-25

Date Collected: 04/14/15 12:00
Matrix: Water
Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 18:37	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 18:37	1
Methyl tert-butyl ether	**1.4**		1.0	0.24	ug/L			04/27/15 18:37	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 18:37	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 18:37	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 18:37	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 18:37	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 18:37	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 18:37	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 18:37	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 18:37	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 18:37	1
Toluene	**0.34**	**J**	0.50	0.11	ug/L			04/27/15 18:37	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 18:37	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 18:37	1
Trichloroethylene	**0.51**		0.50	0.19	ug/L			04/27/15 18:37	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 18:37	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/27/15 18:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*230*	*T J N*	*ug/L*		*3.66*	*354-23-4*		*04/27/15 18:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*		*04/27/15 18:37*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/27/15 18:37*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/27/15 18:37*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 18:37*	*1*

Client Sample ID: MW-16D

Lab Sample ID: 500-94804-26

Date Collected: 04/14/15 10:45

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 19:04	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 19:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 19:04	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 19:04	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 19:04	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 19:04	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 19:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 19:04	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 19:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 19:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 19:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 19:04	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 19:04	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 19:04	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 19:04	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 19:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 19:04	1
1,1,2-Trichlorotrifluoroethane	**27**		5.0	0.22	ug/L			04/27/15 19:04	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 19:04	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 19:04	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 19:04	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 19:04	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 19:04	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 19:04	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 19:04	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 19:04	1
Acetone	**21**		5.0	1.3	ug/L			04/27/15 19:04	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 19:04	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 19:04	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 19:04	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 19:04	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 19:04	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 19:04	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 19:04	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 19:04	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 19:04	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 19:04	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 19:04	1
Chloroform	ND		1.0	0.20	ug/L			04/27/15 19:04	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 19:04	1
cis-1,2-Dichloroethene	**4.9**		1.0	0.12	ug/L			04/27/15 19:04	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 19:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 19:04	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 19:04	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 19:04	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 19:04	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 19:04	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 19:04	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 19:04	1

Client Sample ID: MW-16D
Date Collected: 04/14/15 10:45
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 19:04	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 19:04	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/27/15 19:04	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 19:04	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 19:04	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 19:04	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 19:04	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 19:04	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 19:04	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 19:04	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 19:04	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 19:04	1
Toluene	**0.33**	**J**	0.50	0.11	ug/L			04/27/15 19:04	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 19:04	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 19:04	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/27/15 19:04	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 19:04	1
Vinyl chloride	ND	F1	0.50	0.10	ug/L			04/27/15 19:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol	*270*		*ug/L*		*4.20*	*67-63-0*		*04/27/15 19:04*	*1*
Cyclohexane	*3.3*		*ug/L*		*6.69*	*110-82-7*		*04/27/15 19:04*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*04/27/15 19:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*		*04/27/15 19:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/27/15 19:04*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/27/15 19:04*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 19:04*	*1*

Client Sample ID: MW-104C (LOW FLOW)

Lab Sample ID: 500-94804-27

Date Collected: 04/14/15 16:20

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/27/15 19:32	5
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			04/27/15 19:32	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.2	ug/L			04/27/15 19:32	5
1,1,2-Trichloroethane	ND		5.0	1.4	ug/L			04/27/15 19:32	5
1,1-Dichloroethane	ND		5.0	0.95	ug/L			04/27/15 19:32	5
1,1-Dichloroethylene	ND		5.0	1.6	ug/L			04/27/15 19:32	5
1,1-Dichloropropene	ND		5.0	1.7	ug/L			04/27/15 19:32	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			04/27/15 19:32	5
1,2,3-Trichloropropane	ND		5.0	2.3	ug/L			04/27/15 19:32	5
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/L			04/27/15 19:32	5
1,2,4-Trimethylbenzene	ND		5.0	0.70	ug/L			04/27/15 19:32	5
1,2-Dibromo-3-Chloropropane	ND		25	4.4	ug/L			04/27/15 19:32	5
1,2-Dibromoethane	ND		5.0	1.8	ug/L			04/27/15 19:32	5
1,2-Dichlorobenzene	ND		5.0	1.4	ug/L			04/27/15 19:32	5
1,2-Dichloroethane	ND		5.0	1.4	ug/L			04/27/15 19:32	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			04/27/15 19:32	5
1,3,5-Trimethylbenzene	ND		5.0	0.90	ug/L			04/27/15 19:32	5
1,3-Dichlorobenzene	ND		5.0	0.75	ug/L			04/27/15 19:32	5
1,3-Dichloropropane	ND		5.0	0.65	ug/L			04/27/15 19:32	5
1,4-Dichlorobenzene	ND		5.0	0.75	ug/L			04/27/15 19:32	5
2,2-Dichloropropane	ND		5.0	1.6	ug/L			04/27/15 19:32	5
2-Chlorotoluene	ND		5.0	1.1	ug/L			04/27/15 19:32	5
2-Hexanone	ND		25	2.8	ug/L			04/27/15 19:32	5
4-Chlorotoluene	ND		5.0	1.0	ug/L			04/27/15 19:32	5
4-Isopropyltoluene	ND		10	0.85	ug/L			04/27/15 19:32	5
Acetone	ND		25	6.5	ug/L			04/27/15 19:32	5
Benzene	ND		2.5	0.37	ug/L			04/27/15 19:32	5
Bromobenzene	ND		5.0	1.3	ug/L			04/27/15 19:32	5
Bromodichloromethane	ND		5.0	0.85	ug/L			04/27/15 19:32	5
Bromoform	ND		5.0	1.4	ug/L			04/27/15 19:32	5
Bromomethane	ND		25	1.6	ug/L			04/27/15 19:32	5
Carbon disulfide	ND		25	2.2	ug/L			04/27/15 19:32	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/27/15 19:32	5
Chlorobenzene	ND		5.0	0.70	ug/L			04/27/15 19:32	5
Chlorobromomethane	ND		5.0	2.0	ug/L			04/27/15 19:32	5
Vinyl acetate	ND		10	1.7	ug/L			04/27/15 19:32	5
Chloroethane	ND		5.0	1.7	ug/L			04/27/15 19:32	5
Chloroform	ND		5.0	1.0	ug/L			04/27/15 19:32	5
Chloromethane	ND		5.0	0.90	ug/L			04/27/15 19:32	5
cis-1,2-Dichloroethene	**43**		5.0	0.60	ug/L			04/27/15 19:32	5
cis-1,3-Dichloropropene	ND		5.0	0.90	ug/L			04/27/15 19:32	5
Dibromochloromethane	ND		5.0	1.6	ug/L			04/27/15 19:32	5
Dibromomethane	ND		5.0	1.7	ug/L			04/27/15 19:32	5
Dichlorodifluoromethane	ND		25	1.0	ug/L			04/27/15 19:32	5
Ethylbenzene	ND		2.5	0.65	ug/L			04/27/15 19:32	5
Hexachlorobutadiene	ND		5.0	1.3	ug/L			04/27/15 19:32	5
Isopropylbenzene	ND		5.0	0.70	ug/L			04/27/15 19:32	5
m&p-Xylene	ND		5.0	1.3	ug/L			04/27/15 19:32	5
Methyl Ethyl Ketone	ND		25	7.4	ug/L			04/27/15 19:32	5

Client Sample ID: MW-104C (LOW FLOW)

Lab Sample ID: 500-94804-27

Date Collected: 04/14/15 16:20

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		25	1.7	ug/L			04/27/15 19:32	5
Methyl tert-butyl ether	**3.6**	**J**	5.0	1.2	ug/L			04/27/15 19:32	5
Methylene Chloride	ND		25	3.4	ug/L			04/27/15 19:32	5
Naphthalene	ND		5.0	0.80	ug/L			04/27/15 19:32	5
n-Butylbenzene	ND		5.0	0.65	ug/L			04/27/15 19:32	5
N-Propylbenzene	ND		5.0	0.65	ug/L			04/27/15 19:32	5
o-Xylene	ND		2.5	0.34	ug/L			04/27/15 19:32	5
sec-Butylbenzene	ND		5.0	0.75	ug/L			04/27/15 19:32	5
Styrene	ND		5.0	0.50	ug/L			04/27/15 19:32	5
tert-Butylbenzene	ND		5.0	0.70	ug/L			04/27/15 19:32	5
Perchloroethylene	ND		5.0	0.85	ug/L			04/27/15 19:32	5
Toluene	**1.9**	**J**	2.5	0.55	ug/L			04/27/15 19:32	5
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/27/15 19:32	5
trans-1,3-Dichloropropene	ND		5.0	1.1	ug/L			04/27/15 19:32	5
Trichloroethylene	**5.1**		2.5	0.95	ug/L			04/27/15 19:32	5
Trichlorofluoromethane	ND		5.0	0.95	ug/L			04/27/15 19:32	5
Vinyl chloride	**2.1**	**J**	2.5	0.50	ug/L			04/27/15 19:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 19:32*	*5*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/27/15 19:32*	*5*
Dibromofluoromethane	*89*		*75 - 120*		*04/27/15 19:32*	*5*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/15 19:32*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**1300**		250	11	ug/L			04/28/15 15:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/28/15 15:56*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/28/15 15:56*	*50*
Dibromofluoromethane	*92*		*75 - 120*		*04/28/15 15:56*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 15:56*	*50*

Client Sample ID: MW-19D

Lab Sample ID: 500-94804-28

Date Collected: 04/13/15 16:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.44	ug/L			04/21/15 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*		*04/21/15 14:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 16:27	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 16:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 16:27	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 16:27	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 16:27	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 16:27	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 16:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 16:27	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 16:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 16:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 16:27	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 16:27	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 16:27	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 16:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 16:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 16:27	1
1,1,2-Trichlorotrifluoroethane	**200**		5.0	0.22	ug/L			04/24/15 16:27	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 16:27	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 16:27	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 16:27	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 16:27	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 16:27	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 16:27	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 16:27	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 16:27	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 16:27	1
Benzene	**0.54**		0.50	0.074	ug/L			04/24/15 16:27	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 16:27	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 16:27	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 16:27	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 16:27	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 16:27	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 16:27	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 16:27	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 16:27	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 16:27	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 16:27	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 16:27	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 16:27	1
cis-1,2-Dichloroethene	**78**		1.0	0.12	ug/L			04/24/15 16:27	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 16:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 16:27	1

Client Sample ID: MW-19D

Lab Sample ID: 500-94804-28

Date Collected: 04/13/15 16:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 16:27	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 16:27	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 16:27	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 16:27	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:27	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 16:27	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 16:27	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 16:27	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 16:27	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 16:27	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 16:27	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 16:27	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 16:27	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 16:27	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 16:27	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 16:27	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:27	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 16:27	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 16:27	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 16:27	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 16:27	1
Trichloroethylene	**2.6**		0.50	0.19	ug/L			04/24/15 16:27	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 16:27	1
Vinyl chloride	**1.1**		0.50	0.10	ug/L			04/24/15 16:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethene, chlorotrifluoro-	*3500*	*T J N*	*ug/L*		*1.29*	*79-38-9*		*04/24/15 16:27*	*1*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*6300*	*T J N*	*ug/L*		*2.80*	*354-23-4*		*04/24/15 16:27*	*1*
Cyclohexane	*2.5*		*ug/L*		*5.65*	*110-82-7*		*04/24/15 16:27*	*1*
2-Methylnaphthalene	*1.6*		*ug/L*		*16.84*	*91-57-6*		*04/24/15 16:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 125*		*04/24/15 16:27*	*1*
4-Bromofluorobenzene (Surr)	*80*		*75 - 120*		*04/24/15 16:27*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/24/15 16:27*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 16:27*	*1*

Client Sample ID: MW-20B

Lab Sample ID: 500-94804-29

Date Collected: 04/13/15 15:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 16:54	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 16:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 16:54	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 16:54	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 16:54	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 16:54	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 16:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 16:54	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 16:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 16:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 16:54	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 16:54	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 16:54	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 16:54	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 16:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 16:54	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 16:54	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 16:54	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 16:54	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 16:54	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 16:54	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 16:54	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 16:54	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 16:54	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 16:54	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 16:54	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 16:54	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 16:54	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 16:54	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 16:54	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 16:54	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 16:54	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 16:54	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 16:54	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 16:54	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 16:54	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 16:54	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 16:54	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 16:54	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 16:54	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 16:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 16:54	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 16:54	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 16:54	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 16:54	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 16:54	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:54	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 16:54	1

Client Sample ID: MW-20B
Date Collected: 04/13/15 15:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-29
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 16:54	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 16:54	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 16:54	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 16:54	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 16:54	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 16:54	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 16:54	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 16:54	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 16:54	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 16:54	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 16:54	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 16:54	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 16:54	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 16:54	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 16:54	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 16:54	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 16:54	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 16:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Methylnaphthalene	*1.6*		*ug/L*		*16.84*	*91-57-6*		*04/24/15 16:54*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*04/24/15 16:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/24/15 16:54*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*04/24/15 16:54*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/24/15 16:54*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/24/15 16:54*	*1*

Client Sample ID: MW-20D

Lab Sample ID: 500-94804-30

Date Collected: 04/13/15 16:10

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 17:23	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 17:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 17:23	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 17:23	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 17:23	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 17:23	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 17:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 17:23	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 17:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 17:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 17:23	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 17:23	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 17:23	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 17:23	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 17:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 17:23	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 17:23	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 17:23	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 17:23	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 17:23	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 17:23	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 17:23	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 17:23	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 17:23	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 17:23	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 17:23	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 17:23	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 17:23	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 17:23	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 17:23	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 17:23	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 17:23	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 17:23	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 17:23	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 17:23	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 17:23	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 17:23	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 17:23	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 17:23	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 17:23	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 17:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 17:23	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 17:23	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 17:23	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 17:23	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 17:23	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:23	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 17:23	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-20D
Date Collected: 04/13/15 16:10
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-30
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 17:23	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 17:23	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 17:23	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 17:23	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 17:23	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 17:23	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 17:23	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 17:23	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 17:23	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 17:23	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:23	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 17:23	1
Toluene	**0.47**	**J**	0.50	0.11	ug/L			04/24/15 17:23	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 17:23	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 17:23	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 17:23	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 17:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 17:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Methylnaphthalene	*1.7*		*ug/L*		*16.84*	*91-57-6*		*04/24/15 17:23*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*04/24/15 17:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 125*		*04/24/15 17:23*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 17:23*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/24/15 17:23*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 17:23*	*1*

Client Sample ID: MW-21B
Date Collected: 04/13/15 17:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 17:51	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 17:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 17:51	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 17:51	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 17:51	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 17:51	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 17:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 17:51	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 17:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 17:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 17:51	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 17:51	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 17:51	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 17:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 17:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 17:51	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 17:51	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 17:51	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 17:51	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 17:51	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 17:51	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 17:51	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 17:51	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 17:51	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 17:51	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 17:51	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 17:51	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 17:51	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 17:51	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 17:51	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 17:51	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 17:51	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 17:51	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 17:51	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 17:51	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 17:51	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 17:51	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 17:51	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 17:51	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 17:51	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 17:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 17:51	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 17:51	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 17:51	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 17:51	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 17:51	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:51	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 17:51	1

Client Sample ID: MW-21B
Date Collected: 04/13/15 17:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 17:51	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 17:51	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 17:51	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 17:51	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 17:51	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 17:51	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 17:51	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 17:51	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 17:51	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 17:51	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 17:51	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 17:51	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 17:51	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 17:51	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 17:51	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 17:51	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 17:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 17:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Methylnaphthalene	*2.2*		*ug/L*		*16.84*	*91-57-6*		*04/24/15 17:51*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*04/24/15 17:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/24/15 17:51*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 17:51*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/24/15 17:51*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/24/15 17:51*	*1*

Client Sample ID: FR-6D
Date Collected: 04/13/15 17:15
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-32
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 18:19	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 18:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 18:19	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 18:19	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 18:19	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 18:19	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 18:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 18:19	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 18:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 18:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 18:19	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 18:19	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 18:19	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 18:19	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 18:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 18:19	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 18:19	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 18:19	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 18:19	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 18:19	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 18:19	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 18:19	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 18:19	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 18:19	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 18:19	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 18:19	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 18:19	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 18:19	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 18:19	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 18:19	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 18:19	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 18:19	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 18:19	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 18:19	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 18:19	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 18:19	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 18:19	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 18:19	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 18:19	1
cis-1,2-Dichloroethene	**21**		1.0	0.12	ug/L			04/24/15 18:19	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 18:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 18:19	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 18:19	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 18:19	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 18:19	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 18:19	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:19	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 18:19	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: FR-6D

Lab Sample ID: 500-94804-32

Date Collected: 04/13/15 17:15
Matrix: Water
Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 18:19	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 18:19	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 18:19	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 18:19	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 18:19	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 18:19	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 18:19	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 18:19	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 18:19	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 18:19	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:19	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 18:19	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 18:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 18:19	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 18:19	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 18:19	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 18:19	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 18:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol	*290*		*ug/L*		*3.31*	*67-63-0*		*04/24/15 18:19*	*1*
2-Methylnaphthalene	*1.5*		*ug/L*		*16.84*	*91-57-6*		*04/24/15 18:19*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*04/24/15 18:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/24/15 18:19*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*04/24/15 18:19*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/24/15 18:19*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 18:19*	*1*

Client Sample ID: 042015-GW-DUP01

Lab Sample ID: 500-94804-33

Date Collected: 04/15/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 06:40	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 06:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 06:40	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 06:40	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 06:40	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 06:40	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 06:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 06:40	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 06:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 06:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 06:40	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 06:40	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 06:40	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 06:40	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 06:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 06:40	1
1,1,2-Trichlorotrifluoroethane	**170**		5.0	0.22	ug/L			04/28/15 06:40	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 06:40	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 06:40	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 06:40	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 06:40	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 06:40	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 06:40	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 06:40	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 06:40	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 06:40	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 06:40	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 06:40	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 06:40	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 06:40	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 06:40	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 06:40	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 06:40	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 06:40	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 06:40	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 06:40	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 06:40	1
Chloroform	**0.81**	**J**	1.0	0.20	ug/L			04/28/15 06:40	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 06:40	1
cis-1,2-Dichloroethene	**16**		1.0	0.12	ug/L			04/28/15 06:40	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 06:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 06:40	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 06:40	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 06:40	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 06:40	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 06:40	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:40	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 06:40	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: 042015-GW-DUP01

Lab Sample ID: 500-94804-33

Date Collected: 04/15/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 06:40	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 06:40	1
Methyl tert-butyl ether	**2.2**		1.0	0.24	ug/L			04/28/15 06:40	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 06:40	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 06:40	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 06:40	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 06:40	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 06:40	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 06:40	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 06:40	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 06:40	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 06:40	1
Toluene	**0.32**	**J**	0.50	0.11	ug/L			04/28/15 06:40	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 06:40	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 06:40	1
Trichloroethylene	**1.0**		0.50	0.19	ug/L			04/28/15 06:40	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 06:40	1
Vinyl chloride	**0.62**		0.50	0.10	ug/L			04/28/15 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*		*04/28/15 06:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*04/28/15 06:40*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*04/28/15 06:40*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*04/28/15 06:40*	*1*

Client Sample ID: 042015-GW-DUP02

Lab Sample ID: 500-94804-34

Date Collected: 04/15/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**24**		20	4.4	ug/L			04/21/15 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*04/21/15 13:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		200	50	ug/L			04/28/15 07:06	200
1,1,1-Trichloroethane	**1200**		200	40	ug/L			04/28/15 07:06	200
1,1,2,2-Tetrachloroethane	ND		200	46	ug/L			04/28/15 07:06	200
1,1,2-Trichloroethane	ND		200	56	ug/L			04/28/15 07:06	200
1,1-Dichloroethane	**130**	**J**	200	38	ug/L			04/28/15 07:06	200
1,1-Dichloroethylene	**810**		200	62	ug/L			04/28/15 07:06	200
1,1-Dichloropropene	ND		200	68	ug/L			04/28/15 07:06	200
1,2,3-Trichlorobenzene	ND		200	48	ug/L			04/28/15 07:06	200
1,2,3-Trichloropropane	ND		200	90	ug/L			04/28/15 07:06	200
1,2,4-Trichlorobenzene	ND		200	62	ug/L			04/28/15 07:06	200
1,2,4-Trimethylbenzene	ND		200	28	ug/L			04/28/15 07:06	200
1,2-Dibromo-3-Chloropropane	ND		1000	170	ug/L			04/28/15 07:06	200
1,2-Dibromoethane	ND		200	72	ug/L			04/28/15 07:06	200
1,2-Dichlorobenzene	ND		200	54	ug/L			04/28/15 07:06	200
1,2-Dichloroethane	ND		200	56	ug/L			04/28/15 07:06	200
1,2-Dichloropropane	ND		200	40	ug/L			04/28/15 07:06	200
1,3,5-Trimethylbenzene	ND		200	36	ug/L			04/28/15 07:06	200
1,1,2-Trichlorotrifluoroethane	**18000**		1000	44	ug/L			04/28/15 07:06	200
1,3-Dichlorobenzene	ND		200	30	ug/L			04/28/15 07:06	200
1,3-Dichloropropane	ND		200	26	ug/L			04/28/15 07:06	200
1,4-Dichlorobenzene	ND		200	30	ug/L			04/28/15 07:06	200
2,2-Dichloropropane	ND		200	64	ug/L			04/28/15 07:06	200
2-Chlorotoluene	ND		200	42	ug/L			04/28/15 07:06	200
2-Hexanone	ND		1000	110	ug/L			04/28/15 07:06	200
4-Chlorotoluene	ND		200	40	ug/L			04/28/15 07:06	200
4-Isopropyltoluene	ND		400	34	ug/L			04/28/15 07:06	200
Acetone	ND		1000	260	ug/L			04/28/15 07:06	200
Benzene	ND		100	15	ug/L			04/28/15 07:06	200
Bromobenzene	ND		200	50	ug/L			04/28/15 07:06	200
Bromodichloromethane	ND		200	34	ug/L			04/28/15 07:06	200
Bromoform	ND		200	56	ug/L			04/28/15 07:06	200
Bromomethane	ND		1000	62	ug/L			04/28/15 07:06	200
Carbon disulfide	ND		1000	86	ug/L			04/28/15 07:06	200
Carbon tetrachloride	ND		200	52	ug/L			04/28/15 07:06	200
Chlorobenzene	ND		200	28	ug/L			04/28/15 07:06	200
Chlorobromomethane	ND		200	80	ug/L			04/28/15 07:06	200
Vinyl acetate	ND		400	66	ug/L			04/28/15 07:06	200
Chloroethane	ND		200	68	ug/L			04/28/15 07:06	200
Chloroform	**190**	**J**	200	40	ug/L			04/28/15 07:06	200
Chloromethane	ND		200	36	ug/L			04/28/15 07:06	200
cis-1,3-Dichloropropene	ND		200	36	ug/L			04/28/15 07:06	200
Dibromochloromethane	ND		200	64	ug/L			04/28/15 07:06	200
Dibromomethane	ND		200	66	ug/L			04/28/15 07:06	200

Client Sample ID: 042015-GW-DUP02

Lab Sample ID: 500-94804-34

Date Collected: 04/15/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1000	40	ug/L			04/28/15 07:06	200
Ethylbenzene	ND		100	26	ug/L			04/28/15 07:06	200
Hexachlorobutadiene	ND		200	52	ug/L			04/28/15 07:06	200
Isopropylbenzene	ND		200	28	ug/L			04/28/15 07:06	200
m&p-Xylene	**110**	**J**	200	52	ug/L			04/28/15 07:06	200
Methyl Ethyl Ketone	ND		1000	290	ug/L			04/28/15 07:06	200
methyl isobutyl ketone	ND		1000	66	ug/L			04/28/15 07:06	200
Methyl tert-butyl ether	ND		200	48	ug/L			04/28/15 07:06	200
Methylene Chloride	ND		1000	140	ug/L			04/28/15 07:06	200
Naphthalene	ND		200	32	ug/L			04/28/15 07:06	200
n-Butylbenzene	ND		200	26	ug/L			04/28/15 07:06	200
N-Propylbenzene	ND		200	26	ug/L			04/28/15 07:06	200
o-Xylene	ND		100	14	ug/L			04/28/15 07:06	200
sec-Butylbenzene	ND		200	30	ug/L			04/28/15 07:06	200
Styrene	ND		200	20	ug/L			04/28/15 07:06	200
tert-Butylbenzene	ND		200	28	ug/L			04/28/15 07:06	200
Perchloroethylene	ND		200	34	ug/L			04/28/15 07:06	200
Toluene	**2900**		100	22	ug/L			04/28/15 07:06	200
trans-1,2-Dichloroethene	ND		200	50	ug/L			04/28/15 07:06	200
trans-1,3-Dichloropropene	ND		200	42	ug/L			04/28/15 07:06	200
Trichloroethylene	**220**		100	38	ug/L			04/28/15 07:06	200
Trichlorofluoromethane	ND		200	38	ug/L			04/28/15 07:06	200
Vinyl chloride	**97**	**J**	100	20	ug/L			04/28/15 07:06	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/28/15 07:06*	*200*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/28/15 07:06*	*200*
Dibromofluoromethane	*92*		*75 - 120*		*04/28/15 07:06*	*200*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 07:06*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**62000**		2000	240	ug/L			04/28/15 19:42	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*		*04/28/15 19:42*	*2000*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*04/28/15 19:42*	*2000*
Dibromofluoromethane	*91*		*75 - 120*		*04/28/15 19:42*	*2000*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 19:42*	*2000*

Client Sample ID: RI(A1)-SW01

Lab Sample ID: 500-94804-35

Date Collected: 04/13/15 13:30

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 18:46	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 18:46	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 18:46	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 18:46	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 18:46	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 18:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 18:46	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 18:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 18:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 18:46	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 18:46	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 18:46	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 18:46	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 18:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 18:46	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 18:46	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 18:46	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 18:46	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 18:46	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 18:46	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 18:46	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 18:46	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 18:46	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 18:46	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 18:46	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 18:46	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 18:46	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 18:46	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 18:46	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 18:46	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 18:46	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 18:46	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 18:46	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 18:46	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 18:46	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 18:46	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 18:46	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 18:46	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 18:46	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 18:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 18:46	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 18:46	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 18:46	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 18:46	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 18:46	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:46	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 18:46	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-SW01
Date Collected: 04/13/15 13:30
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-35
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 18:46	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 18:46	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 18:46	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 18:46	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 18:46	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 18:46	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 18:46	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 18:46	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 18:46	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 18:46	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 18:46	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 18:46	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 18:46	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 18:46	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 18:46	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 18:46	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 18:46	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/24/15 18:46*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*04/24/15 18:46*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/24/15 18:46*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/24/15 18:46*	*1*

Client Sample ID: RI(A1)-SW02

Lab Sample ID: 500-94804-36

Date Collected: 04/13/15 13:45

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 19:15	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 19:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 19:15	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 19:15	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 19:15	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 19:15	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 19:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 19:15	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 19:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 19:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 19:15	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 19:15	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 19:15	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 19:15	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 19:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 19:15	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 19:15	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 19:15	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 19:15	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 19:15	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 19:15	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 19:15	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 19:15	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 19:15	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 19:15	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 19:15	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 19:15	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 19:15	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 19:15	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 19:15	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 19:15	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 19:15	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 19:15	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 19:15	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 19:15	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 19:15	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 19:15	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 19:15	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 19:15	1
cis-1,2-Dichloroethene	**7.0**		1.0	0.12	ug/L			04/24/15 19:15	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 19:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 19:15	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 19:15	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 19:15	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 19:15	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 19:15	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:15	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 19:15	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-SW02
Date Collected: 04/13/15 13:45
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-36
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 19:15	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 19:15	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 19:15	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 19:15	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 19:15	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 19:15	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 19:15	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 19:15	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 19:15	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 19:15	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:15	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 19:15	1
Toluene	**0.45**	**J**	0.50	0.11	ug/L			04/24/15 19:15	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 19:15	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 19:15	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 19:15	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 19:15	1
Vinyl chloride	**0.98**		0.50	0.10	ug/L			04/24/15 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 125*		*04/24/15 19:15*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 19:15*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/24/15 19:15*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 19:15*	*1*

Client Sample ID: RI(A1)-SW03
Date Collected: 04/13/15 14:00
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-37
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 19:42	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 19:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 19:42	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 19:42	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 19:42	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 19:42	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 19:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 19:42	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 19:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 19:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 19:42	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 19:42	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 19:42	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 19:42	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 19:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 19:42	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 19:42	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 19:42	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 19:42	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 19:42	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 19:42	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 19:42	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 19:42	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 19:42	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 19:42	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 19:42	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 19:42	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 19:42	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 19:42	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 19:42	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 19:42	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 19:42	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 19:42	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 19:42	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 19:42	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 19:42	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 19:42	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 19:42	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 19:42	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 19:42	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 19:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 19:42	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 19:42	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 19:42	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 19:42	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 19:42	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:42	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 19:42	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-SW03
Date Collected: 04/13/15 14:00
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-37
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 19:42	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 19:42	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 19:42	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 19:42	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 19:42	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 19:42	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 19:42	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 19:42	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 19:42	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 19:42	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 19:42	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 19:42	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 19:42	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 19:42	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 19:42	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 19:42	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 19:42	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/24/15 19:42*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*04/24/15 19:42*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/24/15 19:42*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 19:42*	*1*

Client Sample ID: 042015-SW-DUP01
Date Collected: 04/13/15 00:00
Date Received: 04/17/15 10:20

Lab Sample ID: 500-94804-38
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 20:10	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 20:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 20:10	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 20:10	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 20:10	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 20:10	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 20:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 20:10	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 20:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 20:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 20:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 20:10	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 20:10	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 20:10	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 20:10	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 20:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 20:10	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 20:10	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 20:10	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 20:10	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 20:10	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 20:10	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 20:10	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 20:10	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 20:10	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 20:10	1
Acetone	**5.2**		5.0	1.3	ug/L			04/24/15 20:10	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 20:10	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 20:10	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 20:10	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 20:10	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 20:10	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 20:10	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 20:10	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 20:10	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 20:10	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 20:10	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 20:10	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 20:10	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 20:10	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 20:10	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 20:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 20:10	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 20:10	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 20:10	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 20:10	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 20:10	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 20:10	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 20:10	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: 042015-SW-DUP01

Lab Sample ID: 500-94804-38

Date Collected: 04/13/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 20:10	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 20:10	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 20:10	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 20:10	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 20:10	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 20:10	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 20:10	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 20:10	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 20:10	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 20:10	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 20:10	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 20:10	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 20:10	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 20:10	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 20:10	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 20:10	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 20:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 125*		*04/24/15 20:10*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 20:10*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/24/15 20:10*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/24/15 20:10*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-94804-39

Date Collected: 04/13/15 00:00

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 13:41	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 13:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 13:41	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 13:41	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 13:41	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 13:41	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 13:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 13:41	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 13:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 13:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 13:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 13:41	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 13:41	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 13:41	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 13:41	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 13:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 13:41	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 13:41	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 13:41	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 13:41	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 13:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 13:41	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 13:41	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 13:41	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 13:41	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 13:41	1
Acetone	**5.4**		5.0	1.3	ug/L			04/24/15 13:41	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 13:41	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 13:41	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 13:41	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 13:41	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 13:41	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 13:41	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 13:41	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 13:41	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 13:41	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 13:41	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 13:41	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 13:41	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 13:41	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 13:41	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 13:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 13:41	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 13:41	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 13:41	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 13:41	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 13:41	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 13:41	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 13:41	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-94804-39

Date Collected: 04/13/15 00:00
Matrix: Water
Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 13:41	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 13:41	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 13:41	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 13:41	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 13:41	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 13:41	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 13:41	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 13:41	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 13:41	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 13:41	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 13:41	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 13:41	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 13:41	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 13:41	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 13:41	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 13:41	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 13:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*75 - 125*		*04/24/15 13:41*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/24/15 13:41*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/24/15 13:41*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/24/15 13:41*	*1*

Client Sample ID: MW-102C (LOW FLOW)

Lab Sample ID: 500-94804-40

Date Collected: 04/14/15 10:40

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50	13	ug/L			04/28/15 14:59	50
1,1,1-Trichloroethane	**79**		50	10	ug/L			04/28/15 14:59	50
1,1,2,2-Tetrachloroethane	ND		50	12	ug/L			04/28/15 14:59	50
1,1,2-Trichloroethane	ND		50	14	ug/L			04/28/15 14:59	50
1,1-Dichloroethane	ND		50	9.5	ug/L			04/28/15 14:59	50
1,1-Dichloroethylene	**980**		50	16	ug/L			04/28/15 14:59	50
1,1-Dichloropropene	ND		50	17	ug/L			04/28/15 14:59	50
1,2,3-Trichlorobenzene	ND		50	12	ug/L			04/28/15 14:59	50
1,2,3-Trichloropropane	ND		50	23	ug/L			04/28/15 14:59	50
1,2,4-Trichlorobenzene	ND		50	16	ug/L			04/28/15 14:59	50
1,2,4-Trimethylbenzene	ND		50	7.0	ug/L			04/28/15 14:59	50
1,2-Dibromo-3-Chloropropane	ND		250	44	ug/L			04/28/15 14:59	50
1,2-Dibromoethane	ND		50	18	ug/L			04/28/15 14:59	50
1,2-Dichlorobenzene	ND		50	14	ug/L			04/28/15 14:59	50
1,2-Dichloroethane	ND		50	14	ug/L			04/28/15 14:59	50
1,2-Dichloropropane	ND		50	10	ug/L			04/28/15 14:59	50
1,3,5-Trimethylbenzene	ND		50	9.0	ug/L			04/28/15 14:59	50
1,1,2-Trichlorotrifluoroethane	**8100**		250	11	ug/L			04/28/15 14:59	50
1,3-Dichlorobenzene	ND		50	7.5	ug/L			04/28/15 14:59	50
1,3-Dichloropropane	ND		50	6.5	ug/L			04/28/15 14:59	50
1,4-Dichlorobenzene	ND		50	7.5	ug/L			04/28/15 14:59	50
2,2-Dichloropropane	ND		50	16	ug/L			04/28/15 14:59	50
2-Chlorotoluene	ND		50	11	ug/L			04/28/15 14:59	50
2-Hexanone	ND		250	28	ug/L			04/28/15 14:59	50
4-Chlorotoluene	ND		50	10	ug/L			04/28/15 14:59	50
4-Isopropyltoluene	ND		100	8.5	ug/L			04/28/15 14:59	50
Acetone	ND		250	65	ug/L			04/28/15 14:59	50
Benzene	ND		25	3.7	ug/L			04/28/15 14:59	50
Bromobenzene	ND		50	13	ug/L			04/28/15 14:59	50
Bromodichloromethane	ND		50	8.5	ug/L			04/28/15 14:59	50
Bromoform	ND	*	50	14	ug/L			04/28/15 14:59	50
Bromomethane	ND		250	16	ug/L			04/28/15 14:59	50
Carbon disulfide	ND		250	22	ug/L			04/28/15 14:59	50
Carbon tetrachloride	ND		50	13	ug/L			04/28/15 14:59	50
Chlorobenzene	ND		50	7.0	ug/L			04/28/15 14:59	50
Chlorobromomethane	ND		50	20	ug/L			04/28/15 14:59	50
Vinyl acetate	ND		100	17	ug/L			04/28/15 14:59	50
Chloroethane	ND		50	17	ug/L			04/28/15 14:59	50
Chloroform	**30**	**J**	50	10	ug/L			04/28/15 14:59	50
Chloromethane	ND		50	9.0	ug/L			04/28/15 14:59	50
cis-1,3-Dichloropropene	ND		50	9.0	ug/L			04/28/15 14:59	50
Dibromochloromethane	ND	*	50	16	ug/L			04/28/15 14:59	50
Dibromomethane	ND		50	17	ug/L			04/28/15 14:59	50
Dichlorodifluoromethane	ND	*	250	10	ug/L			04/28/15 14:59	50
Ethylbenzene	ND		25	6.5	ug/L			04/28/15 14:59	50
Hexachlorobutadiene	ND	*	50	13	ug/L			04/28/15 14:59	50
Isopropylbenzene	ND		50	7.0	ug/L			04/28/15 14:59	50
m&p-Xylene	ND		50	13	ug/L			04/28/15 14:59	50
Methyl Ethyl Ketone	ND		250	74	ug/L			04/28/15 14:59	50

Client Sample ID: MW-102C (LOW FLOW)

Lab Sample ID: 500-94804-40

Date Collected: 04/14/15 10:40

Matrix: Water

Date Received: 04/17/15 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	ND		250	17	ug/L			04/28/15 14:59	50
Methyl tert-butyl ether	ND		50	12	ug/L			04/28/15 14:59	50
Methylene Chloride	**360**		250	34	ug/L			04/28/15 14:59	50
Naphthalene	ND		50	8.0	ug/L			04/28/15 14:59	50
n-Butylbenzene	ND		50	6.5	ug/L			04/28/15 14:59	50
N-Propylbenzene	ND		50	6.5	ug/L			04/28/15 14:59	50
o-Xylene	ND		25	3.4	ug/L			04/28/15 14:59	50
sec-Butylbenzene	ND		50	7.5	ug/L			04/28/15 14:59	50
Styrene	ND		50	5.0	ug/L			04/28/15 14:59	50
tert-Butylbenzene	ND		50	7.0	ug/L			04/28/15 14:59	50
Perchloroethylene	ND		50	8.5	ug/L			04/28/15 14:59	50
Toluene	**1300**		25	5.5	ug/L			04/28/15 14:59	50
trans-1,2-Dichloroethene	ND		50	13	ug/L			04/28/15 14:59	50
trans-1,3-Dichloropropene	ND		50	11	ug/L			04/28/15 14:59	50
Trichloroethylene	**5400**		25	9.5	ug/L			04/28/15 14:59	50
Trichlorofluoromethane	ND		50	9.5	ug/L			04/28/15 14:59	50
Vinyl chloride	ND		25	5.0	ug/L			04/28/15 14:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/28/15 14:59*	*50*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/28/15 14:59*	*50*
Dibromofluoromethane	*87*		*75 - 120*		*04/28/15 14:59*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/28/15 14:59*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**38000**		500	60	ug/L			04/28/15 07:33	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*		*04/28/15 07:33*	*500*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/28/15 07:33*	*500*
Dibromofluoromethane	*93*		*75 - 120*		*04/28/15 07:33*	*500*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 07:33*	*500*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

GC/MS VOA

Analysis Batch: 273654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-8	RI(A1)-GW07 (51-55)	Total/NA	Water	8260B SIM	
500-94804-10	MW-100B	Total/NA	Water	8260B SIM	
500-94804-12	MW-101B	Total/NA	Water	8260B SIM	
500-94804-21	MW-104C (PDB)	Total/NA	Water	8260B SIM	
500-94804-28	MW-19D	Total/NA	Water	8260B SIM	
500-94804-34	042015-GW-DUP02	Total/NA	Water	8260B SIM	
LCS 280-273654/3	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 280-273654/4	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
MB 280-273654/5	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 285322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-22	MW-105C	Total/NA	Water	8260B	
500-94804-28	MW-19D	Total/NA	Water	8260B	
500-94804-29	MW-20B	Total/NA	Water	8260B	
500-94804-30	MW-20D	Total/NA	Water	8260B	
500-94804-31	MW-21B	Total/NA	Water	8260B	
500-94804-32	FR-6D	Total/NA	Water	8260B	
500-94804-35	RI(A1)-SW01	Total/NA	Water	8260B	
500-94804-36	RI(A1)-SW02	Total/NA	Water	8260B	
500-94804-37	RI(A1)-SW03	Total/NA	Water	8260B	
500-94804-38	042015-SW-DUP01	Total/NA	Water	8260B	
500-94804-39	TRIP BLANK	Total/NA	Water	8260B	
LCS 500-285322/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285322/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-12	MW-101B	Total/NA	Water	8260B	
500-94804-13	MW-102A	Total/NA	Water	8260B	
500-94804-14 - DL	MW-102B	Total/NA	Water	8260B	
500-94804-15	MW-102C (PDB)	Total/NA	Water	8260B	
500-94804-16	MW-103A	Total/NA	Water	8260B	
500-94804-17 - DL	MW-103B	Total/NA	Water	8260B	
500-94804-18	MW-103C	Total/NA	Water	8260B	
500-94804-19	MW-104A	Total/NA	Water	8260B	
500-94804-20	MW-104B	Total/NA	Water	8260B	
500-94804-21 - DL	MW-104C (PDB)	Total/NA	Water	8260B	
500-94804-23	MW-10B	Total/NA	Water	8260B	
500-94804-24	MW-10D	Total/NA	Water	8260B	
500-94804-25	MW-16B	Total/NA	Water	8260B	
500-94804-26	MW-16D	Total/NA	Water	8260B	
500-94804-26 MS	MW-16D	Total/NA	Water	8260B	
500-94804-26 MSD	MW-16D	Total/NA	Water	8260B	
500-94804-27	MW-104C (LOW FLOW)	Total/NA	Water	8260B	
LCS 500-285512/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285512/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-1	RI(A1)-GW01 (51-55)	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 285605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-2	RI(A1)-GW03 (51-55)	Total/NA	Water	8260B	
500-94804-4	RI(A1)-GW04 (51-55)	Total/NA	Water	8260B	
500-94804-5	RI(A1)-GW04 (71-75)	Total/NA	Water	8260B	
500-94804-6	RI(A1)-GW06 (51-55)	Total/NA	Water	8260B	
500-94804-7	RI(A1)-GW06 (71-75)	Total/NA	Water	8260B	
500-94804-8	RI(A1)-GW07 (51-55)	Total/NA	Water	8260B	
500-94804-9	MW-100A	Total/NA	Water	8260B	
500-94804-10	MW-100B	Total/NA	Water	8260B	
500-94804-11	MW-101A	Total/NA	Water	8260B	
500-94804-33	042015-GW-DUP01	Total/NA	Water	8260B	
500-94804-34	042015-GW-DUP02	Total/NA	Water	8260B	
500-94804-40 - DL	MW-102C (LOW FLOW)	Total/NA	Water	8260B	
LCS 500-285605/27	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285605/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-14	MW-102B	Total/NA	Water	8260B	
500-94804-17	MW-103B	Total/NA	Water	8260B	
500-94804-21	MW-104C (PDB)	Total/NA	Water	8260B	
500-94804-40	MW-102C (LOW FLOW)	Total/NA	Water	8260B	
LCS 500-285707/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285707/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-6 - DL	RI(A1)-GW06 (51-55)	Total/NA	Water	8260B	
500-94804-8 - DL	RI(A1)-GW07 (51-55)	Total/NA	Water	8260B	
500-94804-10 - DL	MW-100B	Total/NA	Water	8260B	
500-94804-11 - DL	MW-101A	Total/NA	Water	8260B	
500-94804-12 - DL	MW-101B	Total/NA	Water	8260B	
500-94804-13 - DL	MW-102A	Total/NA	Water	8260B	
500-94804-15 - DL	MW-102C (PDB)	Total/NA	Water	8260B	
500-94804-16 - DL	MW-103A	Total/NA	Water	8260B	
500-94804-18 - DL	MW-103C	Total/NA	Water	8260B	
500-94804-19 - DL	MW-104A	Total/NA	Water	8260B	
500-94804-20 - DL	MW-104B	Total/NA	Water	8260B	
500-94804-24 - DL	MW-10D	Total/NA	Water	8260B	
500-94804-27 - DL	MW-104C (LOW FLOW)	Total/NA	Water	8260B	
500-94804-34 - DL	042015-GW-DUP02	Total/NA	Water	8260B	
500-94804-34 MS	042015-GW-DUP02	Total/NA	Water	8260B	
500-94804-34 MSD	042015-GW-DUP02	Total/NA	Water	8260B	
LCS 500-285709/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285709/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94804-9 - DL	MW-100A	Total/NA	Water	8260B	
LCS 500-285883/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285883/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-94804-1	RI(A1)-GW01 (51-55)	94	100	91	98
500-94804-2	RI(A1)-GW03 (51-55)	88	99	90	98
500-94804-4	RI(A1)-GW04 (51-55)	93	99	90	98
500-94804-5	RI(A1)-GW04 (71-75)	90	102	89	102
500-94804-6	RI(A1)-GW06 (51-55)	92	98	91	100
500-94804-6 - DL	RI(A1)-GW06 (51-55)	93	95	90	97
500-94804-7	RI(A1)-GW06 (71-75)	93	99	90	98
500-94804-8	RI(A1)-GW07 (51-55)	91	94	91	98
500-94804-8 - DL	RI(A1)-GW07 (51-55)	98	96	92	97
500-94804-9	MW-100A	92	100	92	98
500-94804-9 - DL	MW-100A	87	93	87	99
500-94804-10	MW-100B	92	98	93	98
500-94804-10 - DL	MW-100B	93	93	92	98
500-94804-11	MW-101A	95	98	91	100
500-94804-11 - DL	MW-101A	92	96	91	98
500-94804-12	MW-101B	91	94	92	99
500-94804-12 - DL	MW-101B	89	94	91	97
500-94804-13	MW-102A	92	94	94	100
500-94804-13 - DL	MW-102A	91	92	90	99
500-94804-14 - DL	MW-102B	93	93	92	100
500-94804-14	MW-102B	80	83	87	90
500-94804-15	MW-102C (PDB)	92	93	90	100
500-94804-15 - DL	MW-102C (PDB)	89	93	89	98
500-94804-16	MW-103A	91	94	90	100
500-94804-16 - DL	MW-103A	92	94	91	99
500-94804-17 - DL	MW-103B	93	93	90	99
500-94804-17	MW-103B	81	82	86	89
500-94804-18	MW-103C	91	94	92	99
500-94804-18 - DL	MW-103C	92	95	90	98
500-94804-19	MW-104A	92	97	93	99
500-94804-19 - DL	MW-104A	93	93	90	98
500-94804-20	MW-104B	92	98	92	98
500-94804-20 - DL	MW-104B	94	94	91	99
500-94804-21 - DL	MW-104C (PDB)	92	94	91	98
500-94804-21	MW-104C (PDB)	81	83	88	89
500-94804-22	MW-105C	80	83	88	86
500-94804-23	MW-10B	89	96	91	99
500-94804-24	MW-10D	91	97	90	98
500-94804-24 - DL	MW-10D	93	95	89	99
500-94804-25	MW-16B	95	95	91	99
500-94804-26	MW-16D	94	96	91	99
500-94804-26 MS	MW-16D	90	96	91	99
500-94804-26 MSD	MW-16D	94	95	91	100
500-94804-27	MW-104C (LOW FLOW)	92	96	89	100
500-94804-27 - DL	MW-104C (LOW FLOW)	91	96	92	98
500-94804-28	MW-19D	84	80	88	88
500-94804-29	MW-20B	80	82	88	89
500-94804-30	MW-20D	84	83	88	88
500-94804-31	MW-21B	82	83	89	89

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-94804-32	FR-6D	80	84	87	88
500-94804-33	042015-GW-DUP01	95	101	94	96
500-94804-34	042015-GW-DUP02	91	98	92	97
500-94804-34 - DL	042015-GW-DUP02	94	96	91	99
500-94804-34 MS	042015-GW-DUP02	92	97	95	100
500-94804-34 MSD	042015-GW-DUP02	93	97	93	100
500-94804-35	RI(A1)-SW01	82	82	89	89
500-94804-36	RI(A1)-SW02	79	83	89	88
500-94804-37	RI(A1)-SW03	81	82	88	88
500-94804-38	042015-SW-DUP01	79	83	86	90
500-94804-39	TRIP BLANK	78	83	87	88
500-94804-40 - DL	MW-102C (LOW FLOW)	96	97	93	97
500-94804-40	MW-102C (LOW FLOW)	82	85	87	90
LCS 500-285322/5	Lab Control Sample	79	85	88	90
LCS 500-285512/5	Lab Control Sample	90	94	91	101
LCS 500-285605/27	Lab Control Sample	87	94	90	101
LCS 500-285707/4	Lab Control Sample	77	88	85	91
LCS 500-285709/4	Lab Control Sample	90	92	92	100
LCS 500-285883/4	Lab Control Sample	92	92	91	102
MB 500-285322/7	Method Blank	80	85	86	90
MB 500-285512/7	Method Blank	92	93	91	99
MB 500-285605/6	Method Blank	93	97	87	99
MB 500-285707/6	Method Blank	79	84	88	88
MB 500-285709/6	Method Blank	90	91	89	98
MB 500-285883/6	Method Blank	91	97	89	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DCE
Lab Sample ID	Client Sample ID	(70-127)
500-94804-8	RI(A1)-GW07 (51-55)	88
500-94804-10	MW-100B	117
500-94804-12	MW-101B	110
500-94804-21	MW-104C (PDB)	106
500-94804-28	MW-19D	107
500-94804-34	042015-GW-DUP02	104
LCS 280-273654/3	Lab Control Sample	100
LCSD 280-273654/4	Lab Control Sample Dup	101
MB 280-273654/5	Method Blank	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-285322/7
Matrix: Water
Analysis Batch: 285322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/24/15 12:46	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/24/15 12:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/24/15 12:46	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/24/15 12:46	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/24/15 12:46	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/24/15 12:46	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/24/15 12:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/24/15 12:46	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/24/15 12:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/24/15 12:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/24/15 12:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/24/15 12:46	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/24/15 12:46	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/24/15 12:46	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/24/15 12:46	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/24/15 12:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/24/15 12:46	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/24/15 12:46	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 12:46	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/24/15 12:46	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/24/15 12:46	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/24/15 12:46	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/24/15 12:46	1
2-Hexanone	ND		5.0	0.56	ug/L			04/24/15 12:46	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/24/15 12:46	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/24/15 12:46	1
Acetone	ND		5.0	1.3	ug/L			04/24/15 12:46	1
Benzene	ND		0.50	0.074	ug/L			04/24/15 12:46	1
Bromobenzene	ND		1.0	0.25	ug/L			04/24/15 12:46	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/24/15 12:46	1
Bromoform	ND		1.0	0.28	ug/L			04/24/15 12:46	1
Bromomethane	ND		5.0	0.31	ug/L			04/24/15 12:46	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/24/15 12:46	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/24/15 12:46	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/24/15 12:46	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/24/15 12:46	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/24/15 12:46	1
Chloroethane	ND		1.0	0.34	ug/L			04/24/15 12:46	1
Chloroform	ND		1.0	0.20	ug/L			04/24/15 12:46	1
Chloromethane	ND		1.0	0.18	ug/L			04/24/15 12:46	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/24/15 12:46	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/24/15 12:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/24/15 12:46	1
Dibromomethane	ND		1.0	0.33	ug/L			04/24/15 12:46	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/24/15 12:46	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/24/15 12:46	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/24/15 12:46	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/24/15 12:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285322/7
Matrix: Water
Analysis Batch: 285322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.26	ug/L			04/24/15 12:46	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/24/15 12:46	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/24/15 12:46	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/24/15 12:46	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/24/15 12:46	1
Naphthalene	ND		1.0	0.16	ug/L			04/24/15 12:46	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/24/15 12:46	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/24/15 12:46	1
o-Xylene	ND		0.50	0.068	ug/L			04/24/15 12:46	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/24/15 12:46	1
Styrene	ND		1.0	0.10	ug/L			04/24/15 12:46	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/24/15 12:46	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/24/15 12:46	1
Toluene	ND		0.50	0.11	ug/L			04/24/15 12:46	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/24/15 12:46	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/24/15 12:46	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/24/15 12:46	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/24/15 12:46	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/24/15 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/24/15 12:46*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/24/15 12:46*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/24/15 12:46*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/24/15 12:46*	*1*

Lab Sample ID: LCS 500-285322/5
Matrix: Water
Analysis Batch: 285322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	75 - 122
1,1,1-Trichloroethane	50.0	43.6		ug/L		87	72 - 130
1,1,2,2-Tetrachloroethane	50.0	45.5		ug/L		91	72 - 130
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	75 - 120
1,1-Dichloroethane	50.0	38.5		ug/L		77	75 - 120
1,1-Dichloroethylene	50.0	41.8		ug/L		84	69 - 120
1,1-Dichloropropene	50.0	41.9		ug/L		84	75 - 130
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	69 - 131
1,2,3-Trichloropropane	50.0	39.5		ug/L		79	65 - 132
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	73 - 130
1,2,4-Trimethylbenzene	50.0	45.1		ug/L		90	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	62 - 130
1,2-Dibromoethane	50.0	47.9		ug/L		96	78 - 122
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	75 - 120
1,2-Dichloroethane	50.0	37.1		ug/L		74	69 - 130
1,2-Dichloropropane	50.0	40.3		ug/L		81	75 - 120
1,3,5-Trimethylbenzene	50.0	45.6		ug/L		91	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285322/5
Matrix: Water
Analysis Batch: 285322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane	50.0	41.0		ug/L		82	69 - 120
1,3-Dichlorobenzene	50.0	44.8		ug/L		90	75 - 120
1,3-Dichloropropane	50.0	45.1		ug/L		90	77 - 124
1,4-Dichlorobenzene	50.0	44.4		ug/L		89	75 - 120
2,2-Dichloropropane	50.0	40.7		ug/L		81	65 - 132
2-Chlorotoluene	50.0	43.6		ug/L		87	75 - 120
2-Hexanone	50.0	41.8		ug/L		84	55 - 140
4-Chlorotoluene	50.0	42.8		ug/L		86	75 - 120
4-Isopropyltoluene	50.0	46.8		ug/L		94	75 - 121
Acetone	50.0	32.9		ug/L		66	48 - 149
Benzene	50.0	42.6		ug/L		85	75 - 120
Bromobenzene	50.0	46.5		ug/L		93	75 - 120
Bromodichloromethane	50.0	45.3		ug/L		91	77 - 121
Bromoform	50.0	58.9		ug/L		118	68 - 126
Bromomethane	50.0	39.6		ug/L		79	45 - 169
Carbon disulfide	50.0	40.1		ug/L		80	56 - 130
Carbon tetrachloride	50.0	46.2		ug/L		92	70 - 130
Chlorobenzene	50.0	44.7		ug/L		89	75 - 120
Chlorobromomethane	50.0	44.0		ug/L		88	76 - 120
Vinyl acetate	50.0	35.4		ug/L		71	40 - 137
Chloroethane	50.0	41.8		ug/L		84	58 - 147
Chloroform	50.0	41.8		ug/L		84	76 - 120
Chloromethane	50.0	47.3		ug/L		95	63 - 133
cis-1,2-Dichloroethene	50.0	43.1		ug/L		86	75 - 120
cis-1,3-Dichloropropene	50.0	44.2		ug/L		88	78 - 130
Dibromochloromethane	50.0	52.3		ug/L		105	71 - 126
Dibromomethane	50.0	41.2		ug/L		82	75 - 120
Dichlorodifluoromethane	50.0	57.0		ug/L		114	41 - 146
Ethylbenzene	50.0	45.7		ug/L		91	75 - 120
Hexachlorobutadiene	50.0	57.8		ug/L		116	71 - 131
Isopropylbenzene	50.0	45.6		ug/L		91	75 - 121
m&p-Xylene	50.0	44.5		ug/L		89	75 - 120
Methyl Ethyl Ketone	50.0	36.7		ug/L		73	53 - 142
methyl isobutyl ketone	50.0	38.6		ug/L		77	58 - 135
Methyl tert-butyl ether	50.0	42.8		ug/L		86	75 - 130
Methylene Chloride	50.0	41.2		ug/L		82	73 - 130
Naphthalene	50.0	47.0		ug/L		94	69 - 135
n-Butylbenzene	50.0	45.8		ug/L		92	75 - 121
N-Propylbenzene	50.0	44.7		ug/L		89	75 - 120
o-Xylene	50.0	43.7		ug/L		87	75 - 120
sec-Butylbenzene	50.0	45.6		ug/L		91	75 - 120
Styrene	50.0	45.7		ug/L		91	75 - 120
tert-Butylbenzene	50.0	46.2		ug/L		92	75 - 123
Perchloroethylene	50.0	48.8		ug/L		98	75 - 120
Toluene	50.0	46.1		ug/L		92	75 - 120
trans-1,2-Dichloroethene	50.0	42.5		ug/L		85	77 - 120
trans-1,3-Dichloropropene	50.0	44.5		ug/L		89	74 - 130
Trichloroethylene	50.0	41.0		ug/L		82	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285322/5
Matrix: Water
Analysis Batch: 285322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	41.9		ug/L		84	71 - 130
Vinyl chloride	50.0	46.3		ug/L		93	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 125*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*
Dibromofluoromethane	*88*		*75 - 120*
Toluene-d8 (Surr)	*90*		*75 - 120*

Lab Sample ID: MB 500-285512/7
Matrix: Water
Analysis Batch: 285512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/27/15 10:47	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/27/15 10:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/27/15 10:47	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/27/15 10:47	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/27/15 10:47	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/27/15 10:47	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/27/15 10:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/27/15 10:47	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/27/15 10:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/27/15 10:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/27/15 10:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/27/15 10:47	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/27/15 10:47	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/27/15 10:47	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/27/15 10:47	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/27/15 10:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/27/15 10:47	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/27/15 10:47	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 10:47	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/27/15 10:47	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/27/15 10:47	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/27/15 10:47	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/27/15 10:47	1
2-Hexanone	ND		5.0	0.56	ug/L			04/27/15 10:47	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/27/15 10:47	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/27/15 10:47	1
Acetone	ND		5.0	1.3	ug/L			04/27/15 10:47	1
Benzene	ND		0.50	0.074	ug/L			04/27/15 10:47	1
Bromobenzene	ND		1.0	0.25	ug/L			04/27/15 10:47	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/27/15 10:47	1
Bromoform	ND		1.0	0.28	ug/L			04/27/15 10:47	1
Bromomethane	ND		5.0	0.31	ug/L			04/27/15 10:47	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/27/15 10:47	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/27/15 10:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285512/7
Matrix: Water
Analysis Batch: 285512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.14	ug/L			04/27/15 10:47	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/27/15 10:47	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/27/15 10:47	1
Chloroethane	ND		1.0	0.34	ug/L			04/27/15 10:47	1
Chloroform	ND		1.0	0.20	ug/L			04/27/15 10:47	1
Chloromethane	ND		1.0	0.18	ug/L			04/27/15 10:47	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/27/15 10:47	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/27/15 10:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/15 10:47	1
Dibromomethane	ND		1.0	0.33	ug/L			04/27/15 10:47	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/27/15 10:47	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/27/15 10:47	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/27/15 10:47	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/27/15 10:47	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/27/15 10:47	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/27/15 10:47	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/27/15 10:47	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/27/15 10:47	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/27/15 10:47	1
Naphthalene	ND		1.0	0.16	ug/L			04/27/15 10:47	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/27/15 10:47	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/27/15 10:47	1
o-Xylene	ND		0.50	0.068	ug/L			04/27/15 10:47	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/27/15 10:47	1
Styrene	ND		1.0	0.10	ug/L			04/27/15 10:47	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/27/15 10:47	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/27/15 10:47	1
Toluene	ND		0.50	0.11	ug/L			04/27/15 10:47	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/27/15 10:47	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/27/15 10:47	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/27/15 10:47	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/27/15 10:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/27/15 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*		*04/27/15 10:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*04/27/15 10:47*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*04/27/15 10:47*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/27/15 10:47*	*1*

Lab Sample ID: LCS 500-285512/5
Matrix: Water
Analysis Batch: 285512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.1		ug/L		96	75 - 122
1,1,1-Trichloroethane	50.0	45.4		ug/L		91	72 - 130
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	72 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285512/5
Matrix: Water
Analysis Batch: 285512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	75 - 120
1,1-Dichloroethane	50.0	49.6		ug/L		99	75 - 120
1,1-Dichloroethylene	50.0	41.2		ug/L		82	69 - 120
1,1-Dichloropropene	50.0	46.1		ug/L		92	75 - 130
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	69 - 131
1,2,3-Trichloropropane	50.0	42.5		ug/L		85	65 - 132
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	73 - 130
1,2,4-Trimethylbenzene	50.0	49.6		ug/L		99	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	44.5		ug/L		89	62 - 130
1,2-Dibromoethane	50.0	45.9		ug/L		92	78 - 122
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	75 - 120
1,2-Dichloroethane	50.0	43.4		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	51.9		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	39.2		ug/L		78	69 - 120
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	75 - 120
1,3-Dichloropropane	50.0	45.2		ug/L		90	77 - 124
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	75 - 120
2,2-Dichloropropane	50.0	46.2		ug/L		92	65 - 132
2-Chlorotoluene	50.0	47.8		ug/L		96	75 - 120
2-Hexanone	50.0	59.7		ug/L		119	55 - 140
4-Chlorotoluene	50.0	47.3		ug/L		95	75 - 120
4-Isopropyltoluene	50.0	51.1		ug/L		102	75 - 121
Acetone	50.0	48.0		ug/L		96	48 - 149
Benzene	50.0	45.9		ug/L		92	75 - 120
Bromobenzene	50.0	46.0		ug/L		92	75 - 120
Bromodichloromethane	50.0	46.1		ug/L		92	77 - 121
Bromoform	50.0	46.9		ug/L		94	68 - 126
Bromomethane	50.0	41.3		ug/L		83	45 - 169
Carbon disulfide	50.0	38.0		ug/L		76	56 - 130
Carbon tetrachloride	50.0	45.6		ug/L		91	70 - 130
Chlorobenzene	50.0	48.5		ug/L		97	75 - 120
Chlorobromomethane	50.0	43.6		ug/L		87	76 - 120
Vinyl acetate	50.0	48.4		ug/L		97	40 - 137
Chloroethane	50.0	51.1		ug/L		102	58 - 147
Chloroform	50.0	45.1		ug/L		90	76 - 120
Chloromethane	50.0	59.9		ug/L		120	63 - 133
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	75 - 120
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	78 - 130
Dibromochloromethane	50.0	47.6		ug/L		95	71 - 126
Dibromomethane	50.0	42.8		ug/L		86	75 - 120
Dichlorodifluoromethane	50.0	36.6		ug/L		73	41 - 146
Ethylbenzene	50.0	48.2		ug/L		96	75 - 120
Hexachlorobutadiene	50.0	55.2		ug/L		110	71 - 131
Isopropylbenzene	50.0	47.6		ug/L		95	75 - 121
m&p-Xylene	50.0	50.0		ug/L		100	75 - 120
Methyl Ethyl Ketone	50.0	60.5		ug/L		121	53 - 142
methyl isobutyl ketone	50.0	57.8		ug/L		116	58 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285512/5
Matrix: Water
Analysis Batch: 285512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	44.2		ug/L		88	75 - 130
Methylene Chloride	50.0	42.8		ug/L		86	73 - 130
Naphthalene	50.0	51.3		ug/L		103	69 - 135
n-Butylbenzene	50.0	50.8		ug/L		102	75 - 121
N-Propylbenzene	50.0	48.3		ug/L		97	75 - 120
o-Xylene	50.0	49.7		ug/L		99	75 - 120
sec-Butylbenzene	50.0	49.5		ug/L		99	75 - 120
Styrene	50.0	51.3		ug/L		103	75 - 120
tert-Butylbenzene	50.0	49.4		ug/L		99	75 - 123
Perchloroethylene	50.0	49.1		ug/L		98	75 - 120
Toluene	50.0	48.5		ug/L		97	75 - 120
trans-1,2-Dichloroethene	50.0	44.2		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	74 - 130
Trichloroethylene	50.0	45.0		ug/L		90	75 - 120
Trichlorofluoromethane	50.0	42.7		ug/L		85	71 - 130
Vinyl chloride	50.0	57.9		ug/L		116	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-94804-26 MS
Matrix: Water
Analysis Batch: 285512

Client Sample ID: MW-16D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	44.7		ug/L		89	75 - 122
1,1,1-Trichloroethane	ND		50.0	42.2		ug/L		84	72 - 130
1,1,2,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	72 - 130
1,1,2-Trichloroethane	ND		50.0	47.0		ug/L		94	75 - 120
1,1-Dichloroethane	ND		50.0	47.3		ug/L		95	75 - 120
1,1-Dichloroethylene	ND		50.0	37.7		ug/L		75	69 - 120
1,1-Dichloropropene	ND		50.0	42.7		ug/L		85	75 - 130
1,2,3-Trichlorobenzene	ND		50.0	42.4		ug/L		85	69 - 131
1,2,3-Trichloropropane	ND		50.0	42.5		ug/L		85	65 - 132
1,2,4-Trichlorobenzene	ND		50.0	44.8		ug/L		90	73 - 130
1,2,4-Trimethylbenzene	ND		50.0	47.9		ug/L		96	75 - 121
1,2-Dibromo-3-Chloropropane	ND		50.0	42.9		ug/L		86	62 - 130
1,2-Dibromoethane	ND		50.0	45.2		ug/L		90	78 - 122
1,2-Dichlorobenzene	ND		50.0	46.3		ug/L		93	75 - 120
1,2-Dichloroethane	ND		50.0	43.7		ug/L		87	69 - 130
1,2-Dichloropropane	ND		50.0	52.9		ug/L		106	75 - 120
1,3,5-Trimethylbenzene	ND		50.0	48.1		ug/L		96	75 - 121
1,1,2-Trichlorotrifluoroethane	27		50.0	62.9		ug/L		71	69 - 120
1,3-Dichlorobenzene	ND		50.0	45.5		ug/L		91	75 - 120
1,3-Dichloropropane	ND		50.0	46.5		ug/L		93	77 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-26 MS
Matrix: Water
Analysis Batch: 285512

Client Sample ID: MW-16D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		50.0	44.8		ug/L		90	75 - 120
2,2-Dichloropropane	ND		50.0	39.8		ug/L		80	65 - 132
2-Chlorotoluene	ND		50.0	47.7		ug/L		95	75 - 120
2-Hexanone	ND		50.0	59.6		ug/L		119	55 - 140
4-Chlorotoluene	ND		50.0	46.5		ug/L		93	75 - 120
4-Isopropyltoluene	ND		50.0	47.8		ug/L		96	75 - 121
Acetone	21		50.0	78.7		ug/L		114	48 - 149
Benzene	ND		50.0	44.7		ug/L		89	75 - 120
Bromobenzene	ND		50.0	47.0		ug/L		94	75 - 120
Bromodichloromethane	ND		50.0	46.1		ug/L		92	77 - 121
Bromoform	ND		50.0	45.7		ug/L		91	68 - 126
Bromomethane	ND		50.0	42.0		ug/L		84	45 - 169
Carbon disulfide	ND		50.0	34.6		ug/L		69	56 - 130
Carbon tetrachloride	ND		50.0	41.0		ug/L		82	70 - 130
Chlorobenzene	ND		50.0	46.5		ug/L		93	75 - 120
Chlorobromomethane	ND		50.0	43.5		ug/L		87	76 - 120
Vinyl acetate	ND		50.0	51.2		ug/L		102	40 - 137
Chloroethane	ND		50.0	52.5		ug/L		105	58 - 147
Chloroform	ND		50.0	42.9		ug/L		86	76 - 120
Chloromethane	ND		50.0	63.4		ug/L		127	63 - 133
cis-1,2-Dichloroethene	4.9		50.0	49.5		ug/L		89	75 - 120
cis-1,3-Dichloropropene	ND		50.0	45.8		ug/L		92	78 - 130
Dibromochloromethane	ND		50.0	46.2		ug/L		92	71 - 126
Dibromomethane	ND		50.0	42.7		ug/L		85	75 - 120
Dichlorodifluoromethane	ND		50.0	39.5		ug/L		79	41 - 146
Ethylbenzene	ND		50.0	46.6		ug/L		93	75 - 120
Hexachlorobutadiene	ND		50.0	47.3		ug/L		95	71 - 131
Isopropylbenzene	ND		50.0	47.2		ug/L		94	75 - 121
m&p-Xylene	ND		50.0	46.9		ug/L		94	75 - 120
Methyl Ethyl Ketone	ND		50.0	58.7		ug/L		117	53 - 142
methyl isobutyl ketone	ND		50.0	59.4		ug/L		119	58 - 135
Methyl tert-butyl ether	ND		50.0	43.8		ug/L		88	75 - 130
Methylene Chloride	ND		50.0	42.6		ug/L		85	73 - 130
Naphthalene	ND		50.0	46.4		ug/L		93	69 - 135
n-Butylbenzene	ND		50.0	45.8		ug/L		92	75 - 121
N-Propylbenzene	ND		50.0	46.9		ug/L		94	75 - 120
o-Xylene	ND		50.0	46.7		ug/L		93	75 - 120
sec-Butylbenzene	ND		50.0	46.5		ug/L		93	75 - 120
Styrene	ND		50.0	48.8		ug/L		98	75 - 120
tert-Butylbenzene	ND		50.0	46.9		ug/L		94	75 - 123
Perchloroethylene	ND		50.0	45.2		ug/L		90	75 - 120
Toluene	0.33	J	50.0	46.6		ug/L		93	75 - 120
trans-1,2-Dichloroethene	ND		50.0	41.9		ug/L		84	77 - 120
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	74 - 130
Trichloroethylene	ND		50.0	43.4		ug/L		87	75 - 120
Trichlorofluoromethane	ND		50.0	43.4		ug/L		87	71 - 130
Vinyl chloride	ND	F1	50.0	61.9	F1	ug/L		124	72 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-26 MS
Matrix: Water
Analysis Batch: 285512

Client Sample ID: MW-16D
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 125
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane	91		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-94804-26 MSD
Matrix: Water
Analysis Batch: 285512

Client Sample ID: MW-16D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.6		ug/L		99	75 - 122	11	20
1,1,1-Trichloroethane	ND		50.0	44.9		ug/L		90	72 - 130	6	20
1,1,2,2-Tetrachloroethane	ND		50.0	48.5		ug/L		97	72 - 130	7	20
1,1,2-Trichloroethane	ND		50.0	50.4		ug/L		101	75 - 120	7	20
1,1-Dichloroethane	ND		50.0	50.8		ug/L		102	75 - 120	7	20
1,1-Dichloroethylene	ND		50.0	40.8		ug/L		82	69 - 120	8	20
1,1-Dichloropropene	ND		50.0	46.8		ug/L		94	75 - 130	9	20
1,2,3-Trichlorobenzene	ND		50.0	43.9		ug/L		88	69 - 131	3	20
1,2,3-Trichloropropane	ND		50.0	45.7		ug/L		91	65 - 132	7	20
1,2,4-Trichlorobenzene	ND		50.0	47.3		ug/L		95	73 - 130	5	20
1,2,4-Trimethylbenzene	ND		50.0	51.5		ug/L		103	75 - 121	7	20
1,2-Dibromo-3-Chloropropane	ND		50.0	44.4		ug/L		89	62 - 130	4	20
1,2-Dibromoethane	ND		50.0	48.6		ug/L		97	78 - 122	7	20
1,2-Dichlorobenzene	ND		50.0	48.9		ug/L		98	75 - 120	5	20
1,2-Dichloroethane	ND		50.0	47.1		ug/L		94	69 - 130	7	20
1,2-Dichloropropane	ND		50.0	55.2		ug/L		110	75 - 120	4	20
1,3,5-Trimethylbenzene	ND		50.0	51.6		ug/L		103	75 - 121	7	20
1,1,2-Trichlorotrifluoroethane	27		50.0	64.6		ug/L		74	69 - 120	3	20
1,3-Dichlorobenzene	ND		50.0	48.9		ug/L		98	75 - 120	7	20
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	77 - 124	8	20
1,4-Dichlorobenzene	ND		50.0	48.3		ug/L		97	75 - 120	7	20
2,2-Dichloropropane	ND		50.0	41.7		ug/L		83	65 - 132	5	20
2-Chlorotoluene	ND		50.0	50.1		ug/L		100	75 - 120	5	20
2-Hexanone	ND		50.0	57.2		ug/L		114	55 - 140	4	20
4-Chlorotoluene	ND		50.0	49.0		ug/L		98	75 - 120	5	20
4-Isopropyltoluene	ND		50.0	52.0		ug/L		104	75 - 121	8	20
Acetone	21		50.0	72.9		ug/L		103	48 - 149	8	20
Benzene	ND		50.0	48.0		ug/L		96	75 - 120	7	20
Bromobenzene	ND		50.0	49.4		ug/L		99	75 - 120	5	20
Bromodichloromethane	ND		50.0	48.3		ug/L		97	77 - 121	5	20
Bromoform	ND		50.0	49.7		ug/L		99	68 - 126	8	20
Bromomethane	ND		50.0	42.2		ug/L		84	45 - 169	0	20
Carbon disulfide	ND		50.0	36.2		ug/L		72	56 - 130	5	20
Carbon tetrachloride	ND		50.0	44.7		ug/L		89	70 - 130	8	20
Chlorobenzene	ND		50.0	50.2		ug/L		100	75 - 120	8	20
Chlorobromomethane	ND		50.0	46.1		ug/L		92	76 - 120	6	20
Vinyl acetate	ND		50.0	50.6		ug/L		101	40 - 137	1	20
Chloroethane	ND		50.0	54.8		ug/L		110	58 - 147	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-26 MSD
Matrix: Water
Analysis Batch: 285512

Client Sample ID: MW-16D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		50.0	47.1		ug/L		94	76 - 120	9	20
Chloromethane	ND		50.0	64.4		ug/L		129	63 - 133	1	20
cis-1,2-Dichloroethene	4.9		50.0	51.9		ug/L		94	75 - 120	5	20
cis-1,3-Dichloropropene	ND		50.0	50.0		ug/L		100	78 - 130	9	20
Dibromochloromethane	ND		50.0	50.1		ug/L		100	71 - 126	8	20
Dibromomethane	ND		50.0	45.5		ug/L		91	75 - 120	6	20
Dichlorodifluoromethane	ND		50.0	40.2		ug/L		80	41 - 146	2	20
Ethylbenzene	ND		50.0	49.5		ug/L		99	75 - 120	6	20
Hexachlorobutadiene	ND		50.0	51.5		ug/L		103	71 - 131	9	20
Isopropylbenzene	ND		50.0	49.4		ug/L		99	75 - 121	5	20
m&p-Xylene	ND		50.0	50.6		ug/L		101	75 - 120	8	20
Methyl Ethyl Ketone	ND		50.0	57.6		ug/L		115	53 - 142	2	20
methyl isobutyl ketone	ND		50.0	58.0		ug/L		116	58 - 135	2	20
Methyl tert-butyl ether	ND		50.0	47.4		ug/L		95	75 - 130	8	20
Methylene Chloride	ND		50.0	44.7		ug/L		89	73 - 130	5	20
Naphthalene	ND		50.0	49.0		ug/L		98	69 - 135	5	20
n-Butylbenzene	ND		50.0	50.0		ug/L		100	75 - 121	9	20
N-Propylbenzene	ND		50.0	49.6		ug/L		99	75 - 120	6	20
o-Xylene	ND		50.0	50.8		ug/L		102	75 - 120	8	20
sec-Butylbenzene	ND		50.0	50.3		ug/L		101	75 - 120	8	20
Styrene	ND		50.0	52.4		ug/L		105	75 - 120	7	20
tert-Butylbenzene	ND		50.0	50.8		ug/L		102	75 - 123	8	20
Perchloroethylene	ND		50.0	49.0		ug/L		98	75 - 120	8	20
Toluene	0.33	J	50.0	50.2		ug/L		100	75 - 120	7	20
trans-1,2-Dichloroethene	ND		50.0	43.7		ug/L		87	77 - 120	4	20
trans-1,3-Dichloropropene	ND		50.0	48.8		ug/L		98	74 - 130	7	20
Trichloroethylene	ND		50.0	47.0		ug/L		94	75 - 120	8	20
Trichlorofluoromethane	ND		50.0	44.4		ug/L		89	71 - 130	2	20
Vinyl chloride	ND	F1	50.0	63.4	F1	ug/L		127	72 - 123	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-285605/6
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 00:27	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 00:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 00:27	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 00:27	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 00:27	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 00:27	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 00:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285605/6
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 00:27	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 00:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 00:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 00:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 00:27	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 00:27	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 00:27	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 00:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 00:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 00:27	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 00:27	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 00:27	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 00:27	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 00:27	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 00:27	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 00:27	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 00:27	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 00:27	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 00:27	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 00:27	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 00:27	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 00:27	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 00:27	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 00:27	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 00:27	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 00:27	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 00:27	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 00:27	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 00:27	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 00:27	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 00:27	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 00:27	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 00:27	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 00:27	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 00:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 00:27	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 00:27	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 00:27	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 00:27	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 00:27	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 00:27	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 00:27	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 00:27	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 00:27	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 00:27	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 00:27	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 00:27	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 00:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285605/6
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 00:27	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 00:27	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 00:27	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 00:27	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 00:27	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 00:27	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 00:27	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 00:27	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 00:27	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 00:27	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 00:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*04/28/15 00:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/28/15 00:27*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/28/15 00:27*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/28/15 00:27*	*1*

Lab Sample ID: LCS 500-285605/27
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/L		110	75 - 122
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	72 - 130
1,1,2,2-Tetrachloroethane	50.0	52.3		ug/L		105	72 - 130
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	75 - 120
1,1-Dichloroethane	50.0	55.7		ug/L		111	75 - 120
1,1-Dichloroethylene	50.0	51.6		ug/L		103	69 - 120
1,1-Dichloropropene	50.0	53.2		ug/L		106	75 - 130
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	69 - 131
1,2,3-Trichloropropane	50.0	52.5		ug/L		105	65 - 132
1,2,4-Trichlorobenzene	50.0	53.9		ug/L		108	73 - 130
1,2,4-Trimethylbenzene	50.0	56.3		ug/L		113	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/L		101	62 - 130
1,2-Dibromoethane	50.0	53.0		ug/L		106	78 - 122
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	75 - 120
1,2-Dichloroethane	50.0	47.7		ug/L		95	69 - 130
1,2-Dichloropropane	50.0	57.7		ug/L		115	75 - 120
1,3,5-Trimethylbenzene	50.0	56.0		ug/L		112	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	49.6		ug/L		99	69 - 120
1,3-Dichlorobenzene	50.0	53.7		ug/L		107	75 - 120
1,3-Dichloropropane	50.0	52.8		ug/L		106	77 - 124
1,4-Dichlorobenzene	50.0	53.0		ug/L		106	75 - 120
2,2-Dichloropropane	50.0	50.8		ug/L		102	65 - 132
2-Chlorotoluene	50.0	54.8		ug/L		110	75 - 120
2-Hexanone	50.0	60.1		ug/L		120	55 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285605/27
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	54.0		ug/L		108	75 - 120
4-Isopropyltoluene	50.0	57.3		ug/L		115	75 - 121
Acetone	50.0	52.2		ug/L		104	48 - 149
Benzene	50.0	52.2		ug/L		104	75 - 120
Bromobenzene	50.0	53.5		ug/L		107	75 - 120
Bromodichloromethane	50.0	51.4		ug/L		103	77 - 121
Bromoform	50.0	56.4		ug/L		113	68 - 126
Bromomethane	50.0	39.4		ug/L		79	45 - 169
Carbon disulfide	50.0	53.1		ug/L		106	56 - 130
Carbon tetrachloride	50.0	51.6		ug/L		103	70 - 130
Chlorobenzene	50.0	55.3		ug/L		111	75 - 120
Chlorobromomethane	50.0	48.4		ug/L		97	76 - 120
Vinyl acetate	50.0	46.5		ug/L		93	40 - 137
Chloroethane	50.0	52.4		ug/L		105	58 - 147
Chloroform	50.0	49.6		ug/L		99	76 - 120
Chloromethane	50.0	61.2		ug/L		122	63 - 133
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	75 - 120
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	78 - 130
Dibromochloromethane	50.0	55.8		ug/L		112	71 - 126
Dibromomethane	50.0	47.9		ug/L		96	75 - 120
Dichlorodifluoromethane	50.0	38.1		ug/L		76	41 - 146
Ethylbenzene	50.0	54.5		ug/L		109	75 - 120
Hexachlorobutadiene	50.0	56.2		ug/L		112	71 - 131
Isopropylbenzene	50.0	54.7		ug/L		109	75 - 121
m&p-Xylene	50.0	56.3		ug/L		113	75 - 120
Methyl Ethyl Ketone	50.0	57.8		ug/L		116	53 - 142
methyl isobutyl ketone	50.0	57.1		ug/L		114	58 - 135
Methyl tert-butyl ether	50.0	47.9		ug/L		96	75 - 130
Methylene Chloride	50.0	49.1		ug/L		98	73 - 130
Naphthalene	50.0	54.1		ug/L		108	69 - 135
n-Butylbenzene	50.0	56.5		ug/L		113	75 - 121
N-Propylbenzene	50.0	55.1		ug/L		110	75 - 120
o-Xylene	50.0	56.8		ug/L		114	75 - 120
sec-Butylbenzene	50.0	55.2		ug/L		110	75 - 120
Styrene	50.0	58.8		ug/L		118	75 - 120
tert-Butylbenzene	50.0	54.6		ug/L		109	75 - 123
Perchloroethylene	50.0	56.2		ug/L		112	75 - 120
Toluene	50.0	55.1		ug/L		110	75 - 120
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	77 - 120
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	74 - 130
Trichloroethylene	50.0	51.0		ug/L		102	75 - 120
Trichlorofluoromethane	50.0	44.5		ug/L		89	71 - 130
Vinyl chloride	50.0	61.1		ug/L		122	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*
Dibromofluoromethane	*90*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285605/27
Matrix: Water
Analysis Batch: 285605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: MB 500-285707/6
Matrix: Water
Analysis Batch: 285707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 10:16	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 10:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 10:16	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 10:16	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 10:16	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 10:16	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 10:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 10:16	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 10:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 10:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 10:16	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 10:16	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 10:16	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 10:16	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 10:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 10:16	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 10:16	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 10:16	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 10:16	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 10:16	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 10:16	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 10:16	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 10:16	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 10:16	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 10:16	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 10:16	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 10:16	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 10:16	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 10:16	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 10:16	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 10:16	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 10:16	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 10:16	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 10:16	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 10:16	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 10:16	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 10:16	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 10:16	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 10:16	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 10:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285707/6
Matrix: Water
Analysis Batch: 285707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 10:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 10:16	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 10:16	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 10:16	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 10:16	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 10:16	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:16	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 10:16	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 10:16	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 10:16	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 10:16	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 10:16	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 10:16	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 10:16	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 10:16	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 10:16	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 10:16	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 10:16	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:16	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 10:16	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 10:16	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 10:16	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 10:16	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 10:16	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 10:16	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 125*		*04/28/15 10:16*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*04/28/15 10:16*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/28/15 10:16*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/28/15 10:16*	*1*

Lab Sample ID: LCS 500-285707/4
Matrix: Water
Analysis Batch: 285707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.1		ug/L		118	75 - 122
1,1,1-Trichloroethane	50.0	54.8		ug/L		110	72 - 130
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	72 - 130
1,1,2-Trichloroethane	50.0	56.1		ug/L		112	75 - 120
1,1-Dichloroethane	50.0	51.4		ug/L		103	75 - 120
1,1-Dichloroethylene	50.0	56.8		ug/L		114	69 - 120
1,1-Dichloropropene	50.0	54.1		ug/L		108	75 - 130
1,2,3-Trichlorobenzene	50.0	55.2		ug/L		110	69 - 131
1,2,3-Trichloropropane	50.0	48.9		ug/L		98	65 - 132
1,2,4-Trichlorobenzene	50.0	58.1		ug/L		116	73 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285707/4
Matrix: Water
Analysis Batch: 285707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.7		ug/L		113	62 - 130
1,2-Dibromoethane	50.0	55.7		ug/L		111	78 - 122
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	75 - 120
1,2-Dichloroethane	50.0	47.4		ug/L		95	69 - 130
1,2-Dichloropropane	50.0	52.4		ug/L		105	75 - 120
1,3,5-Trimethylbenzene	50.0	54.6		ug/L		109	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	55.1		ug/L		110	69 - 120
1,3-Dichlorobenzene	50.0	55.2		ug/L		110	75 - 120
1,3-Dichloropropane	50.0	54.6		ug/L		109	77 - 124
1,4-Dichlorobenzene	50.0	53.5		ug/L		107	75 - 120
2,2-Dichloropropane	50.0	55.5		ug/L		111	65 - 132
2-Chlorotoluene	50.0	52.8		ug/L		106	75 - 120
2-Hexanone	50.0	43.2		ug/L		86	55 - 140
4-Chlorotoluene	50.0	52.6		ug/L		105	75 - 120
4-Isopropyltoluene	50.0	56.1		ug/L		112	75 - 121
Acetone	50.0	37.1		ug/L		74	48 - 149
Benzene	50.0	55.2		ug/L		110	75 - 120
Bromobenzene	50.0	55.4		ug/L		111	75 - 120
Bromodichloromethane	50.0	53.8		ug/L		108	77 - 121
Bromoform	50.0	68.2	*	ug/L		136	68 - 126
Bromomethane	50.0	48.7		ug/L		97	45 - 169
Carbon disulfide	50.0	58.1		ug/L		116	56 - 130
Carbon tetrachloride	50.0	58.0		ug/L		116	70 - 130
Chlorobenzene	50.0	54.3		ug/L		109	75 - 120
Chlorobromomethane	50.0	56.7		ug/L		113	76 - 120
Vinyl acetate	50.0	47.7		ug/L		95	40 - 137
Chloroethane	50.0	46.5		ug/L		93	58 - 147
Chloroform	50.0	52.4		ug/L		105	76 - 120
Chloromethane	50.0	65.0		ug/L		130	63 - 133
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	75 - 120
cis-1,3-Dichloropropene	50.0	55.8		ug/L		112	78 - 130
Dibromochloromethane	50.0	63.5	*	ug/L		127	71 - 126
Dibromomethane	50.0	52.3		ug/L		105	75 - 120
Dichlorodifluoromethane	50.0	75.7	*	ug/L		151	41 - 146
Ethylbenzene	50.0	55.4		ug/L		111	75 - 120
Hexachlorobutadiene	50.0	66.6	*	ug/L		133	71 - 131
Isopropylbenzene	50.0	55.5		ug/L		111	75 - 121
m&p-Xylene	50.0	53.4		ug/L		107	75 - 120
Methyl Ethyl Ketone	50.0	39.1		ug/L		78	53 - 142
methyl isobutyl ketone	50.0	41.6		ug/L		83	58 - 135
Methyl tert-butyl ether	50.0	54.7		ug/L		109	75 - 130
Methylene Chloride	50.0	55.1		ug/L		110	73 - 130
Naphthalene	50.0	53.0		ug/L		106	69 - 135
n-Butylbenzene	50.0	55.2		ug/L		110	75 - 121
N-Propylbenzene	50.0	54.8		ug/L		110	75 - 120
o-Xylene	50.0	52.9		ug/L		106	75 - 120
sec-Butylbenzene	50.0	55.3		ug/L		111	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285707/4
Matrix: Water
Analysis Batch: 285707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	50.0	55.9		ug/L		112	75 - 120
tert-Butylbenzene	50.0	54.6		ug/L		109	75 - 123
Perchloroethylene	50.0	59.7		ug/L		119	75 - 120
Toluene	50.0	56.2		ug/L		112	75 - 120
trans-1,2-Dichloroethene	50.0	55.1		ug/L		110	77 - 120
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	74 - 130
Trichloroethylene	50.0	51.5		ug/L		103	75 - 120
Trichlorofluoromethane	50.0	52.1		ug/L		104	71 - 130
Vinyl chloride	50.0	60.1		ug/L		120	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*77*		*75 - 125*
4-Bromofluorobenzene (Surr)	*88*		*75 - 120*
Dibromofluoromethane	*85*		*75 - 120*
Toluene-d8 (Surr)	*91*		*75 - 120*

Lab Sample ID: MB 500-285709/6
Matrix: Water
Analysis Batch: 285709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 11:08	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 11:08	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 11:08	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 11:08	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 11:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 11:08	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 11:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 11:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 11:08	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 11:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 11:08	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 11:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 11:08	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 11:08	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 11:08	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 11:08	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 11:08	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 11:08	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 11:08	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 11:08	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 11:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285709/6
Matrix: Water
Analysis Batch: 285709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.074	ug/L			04/28/15 11:08	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 11:08	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 11:08	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 11:08	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 11:08	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 11:08	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 11:08	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 11:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 11:08	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 11:08	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 11:08	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 11:08	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 11:08	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 11:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 11:08	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 11:08	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 11:08	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 11:08	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 11:08	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 11:08	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 11:08	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 11:08	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 11:08	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 11:08	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 11:08	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 11:08	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 11:08	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 11:08	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 11:08	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 11:08	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 11:08	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 11:08	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 11:08	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 11:08	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 11:08	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 11:08	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 11:08	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*		*04/28/15 11:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*04/28/15 11:08*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/28/15 11:08*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 11:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285709/4
Matrix: Water
Analysis Batch: 285709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	60.6		ug/L		121	75 - 122
1,1,1-Trichloroethane	50.0	56.6		ug/L		113	72 - 130
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	72 - 130
1,1,2-Trichloroethane	50.0	57.6		ug/L		115	75 - 120
1,1-Dichloroethane	50.0	63.0	*	ug/L		126	75 - 120
1,1-Dichloroethylene	50.0	56.2		ug/L		112	69 - 120
1,1-Dichloropropene	50.0	57.2		ug/L		114	75 - 130
1,2,3-Trichlorobenzene	50.0	57.9		ug/L		116	69 - 131
1,2,3-Trichloropropane	50.0	55.0		ug/L		110	65 - 132
1,2,4-Trichlorobenzene	50.0	61.1		ug/L		122	73 - 130
1,2,4-Trimethylbenzene	50.0	109	*	ug/L		219	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	62 - 130
1,2-Dibromoethane	50.0	56.9		ug/L		114	78 - 122
1,2-Dichlorobenzene	50.0	58.8		ug/L		118	75 - 120
1,2-Dichloroethane	50.0	54.8		ug/L		110	69 - 130
1,2-Dichloropropane	50.0	63.7	*	ug/L		127	75 - 120
1,3,5-Trimethylbenzene	50.0	60.5		ug/L		121	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	54.2		ug/L		108	69 - 120
1,3-Dichlorobenzene	50.0	58.3		ug/L		117	75 - 120
1,3-Dichloropropane	50.0	56.4		ug/L		113	77 - 124
1,4-Dichlorobenzene	50.0	57.2		ug/L		114	75 - 120
2,2-Dichloropropane	50.0	57.1		ug/L		114	65 - 132
2-Chlorotoluene	50.0	58.3		ug/L		117	75 - 120
2-Hexanone	50.0	59.0		ug/L		118	55 - 140
4-Chlorotoluene	50.0	57.7		ug/L		115	75 - 120
4-Isopropyltoluene	50.0	61.0	*	ug/L		122	75 - 121
Acetone	50.0	56.4		ug/L		113	48 - 149
Benzene	50.0	57.7		ug/L		115	75 - 120
Bromobenzene	50.0	56.7		ug/L		113	75 - 120
Bromodichloromethane	50.0	57.8		ug/L		116	77 - 121
Bromoform	50.0	61.2		ug/L		122	68 - 126
Bromomethane	50.0	46.0		ug/L		92	45 - 169
Carbon disulfide	50.0	56.2		ug/L		112	56 - 130
Carbon tetrachloride	50.0	56.2		ug/L		112	70 - 130
Chlorobenzene	50.0	58.4		ug/L		117	75 - 120
Chlorobromomethane	50.0	54.2		ug/L		108	76 - 120
Vinyl acetate	50.0	47.6		ug/L		95	40 - 137
Chloroethane	50.0	58.4		ug/L		117	58 - 147
Chloroform	50.0	56.4		ug/L		113	76 - 120
Chloromethane	50.0	70.3	*	ug/L		141	63 - 133
cis-1,2-Dichloroethene	50.0	59.1		ug/L		118	75 - 120
cis-1,3-Dichloropropene	50.0	58.9		ug/L		118	78 - 130
Dibromochloromethane	50.0	57.8		ug/L		116	71 - 126
Dibromomethane	50.0	52.7		ug/L		105	75 - 120
Dichlorodifluoromethane	50.0	50.9		ug/L		102	41 - 146
Ethylbenzene	50.0	58.6		ug/L		117	75 - 120
Hexachlorobutadiene	50.0	62.0		ug/L		124	71 - 131
Isopropylbenzene	50.0	58.3		ug/L		117	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285709/4
Matrix: Water
Analysis Batch: 285709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	50.0	59.6		ug/L		119	75 - 120
Methyl Ethyl Ketone	50.0	57.4		ug/L		115	53 - 142
methyl isobutyl ketone	50.0	56.9		ug/L		114	58 - 135
Methyl tert-butyl ether	50.0	56.4		ug/L		113	75 - 130
Methylene Chloride	50.0	57.5		ug/L		115	73 - 130
Naphthalene	50.0	62.7		ug/L		125	69 - 135
n-Butylbenzene	50.0	59.7		ug/L		119	75 - 121
N-Propylbenzene	50.0	58.5		ug/L		117	75 - 120
o-Xylene	50.0	60.8	*	ug/L		122	75 - 120
sec-Butylbenzene	50.0	58.8		ug/L		118	75 - 120
Styrene	50.0	63.1	*	ug/L		126	75 - 120
tert-Butylbenzene	50.0	60.0		ug/L		120	75 - 123
Perchloroethylene	50.0	59.9		ug/L		120	75 - 120
Toluene	50.0	59.7		ug/L		119	75 - 120
trans-1,2-Dichloroethene	50.0	58.3		ug/L		117	77 - 120
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	74 - 130
Trichloroethylene	50.0	55.8		ug/L		112	75 - 120
Trichlorofluoromethane	50.0	47.6		ug/L		95	71 - 130
Vinyl chloride	50.0	70.0	*	ug/L		140	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: 500-94804-34 MS
Matrix: Water
Analysis Batch: 285709

Client Sample ID: 042015-GW-DUP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		100000	115000		ug/L		115	75 - 122
1,1,1-Trichloroethane	ND		100000	104000		ug/L		104	72 - 130
1,1,2,2-Tetrachloroethane	ND		100000	109000		ug/L		109	72 - 130
1,1,2-Trichloroethane	ND		100000	114000		ug/L		114	75 - 120
1,1-Dichloroethane	ND	*	100000	118000		ug/L		118	75 - 120
1,1-Dichloroethylene	ND		100000	101000		ug/L		101	69 - 120
1,1-Dichloropropene	ND		100000	106000		ug/L		106	75 - 130
1,2,3-Trichlorobenzene	ND		100000	94400		ug/L		94	69 - 131
1,2,3-Trichloropropane	ND		100000	105000		ug/L		105	65 - 132
1,2,4-Trichlorobenzene	ND		100000	104000		ug/L		104	73 - 130
1,2,4-Trimethylbenzene	ND	*	100000	115000		ug/L		115	75 - 121
1,2-Dibromo-3-Chloropropane	ND		100000	102000		ug/L		102	62 - 130
1,2-Dibromoethane	ND		100000	111000		ug/L		111	78 - 122
1,2-Dichlorobenzene	ND		100000	111000		ug/L		111	75 - 120
1,2-Dichloroethane	ND		100000	107000		ug/L		107	69 - 130
1,2-Dichloropropane	ND	F1 *	100000	124000	F1	ug/L		124	75 - 120
1,3,5-Trimethylbenzene	ND		100000	116000		ug/L		116	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-34 MS
Matrix: Water
Analysis Batch: 285709

Client Sample ID: 042015-GW-DUP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane	ND		100000	115000		ug/L		115	69 - 120
1,3-Dichlorobenzene	ND		100000	110000		ug/L		110	75 - 120
1,3-Dichloropropane	ND		100000	111000		ug/L		111	77 - 124
1,4-Dichlorobenzene	ND		100000	106000		ug/L		106	75 - 120
2,2-Dichloropropane	ND		100000	93800		ug/L		94	65 - 132
2-Chlorotoluene	ND		100000	114000		ug/L		114	75 - 120
2-Hexanone	ND		100000	114000		ug/L		114	55 - 140
4-Chlorotoluene	ND		100000	111000		ug/L		111	75 - 120
4-Isopropyltoluene	ND	*	100000	115000		ug/L		115	75 - 121
Acetone	ND		100000	98900		ug/L		99	48 - 149
Benzene	ND		100000	110000		ug/L		110	75 - 120
Bromobenzene	ND		100000	114000		ug/L		114	75 - 120
Bromodichloromethane	ND		100000	110000		ug/L		110	77 - 121
Bromoform	ND		100000	110000		ug/L		110	68 - 126
Bromomethane	ND		100000	87300		ug/L		87	45 - 169
Carbon disulfide	ND		100000	98300		ug/L		98	56 - 130
Carbon tetrachloride	ND		100000	103000		ug/L		103	70 - 130
Chlorobenzene	ND		100000	113000		ug/L		113	75 - 120
Chlorobromomethane	ND		100000	105000		ug/L		105	76 - 120
Vinyl acetate	ND		100000	100000		ug/L		100	40 - 137
Chloroethane	ND		100000	118000		ug/L		118	58 - 147
Chloroform	ND		100000	108000		ug/L		108	76 - 120
Chloromethane	ND	F1 *	100000	154000	F1	ug/L		154	63 - 133
cis-1,2-Dichloroethene	62000		100000	175000		ug/L		114	75 - 120
cis-1,3-Dichloropropene	ND		100000	112000		ug/L		112	78 - 130
Dibromochloromethane	ND		100000	113000		ug/L		113	71 - 126
Dibromomethane	ND		100000	102000		ug/L		102	75 - 120
Dichlorodifluoromethane	ND		100000	107000		ug/L		107	41 - 146
Ethylbenzene	ND		100000	112000		ug/L		112	75 - 120
Hexachlorobutadiene	ND		100000	111000		ug/L		111	71 - 131
Isopropylbenzene	ND		100000	112000		ug/L		112	75 - 121
m&p-Xylene	ND		100000	112000		ug/L		112	75 - 120
Methyl Ethyl Ketone	ND		100000	125000		ug/L		125	53 - 142
methyl isobutyl ketone	ND		100000	120000		ug/L		120	58 - 135
Methyl tert-butyl ether	ND		100000	107000		ug/L		107	75 - 130
Methylene Chloride	ND		100000	107000		ug/L		107	73 - 130
Naphthalene	ND		100000	104000		ug/L		104	69 - 135
n-Butylbenzene	ND		100000	110000		ug/L		110	75 - 121
N-Propylbenzene	ND		100000	111000		ug/L		111	75 - 120
o-Xylene	ND	*	100000	114000		ug/L		114	75 - 120
sec-Butylbenzene	ND		100000	113000		ug/L		113	75 - 120
Styrene	ND	*	100000	119000		ug/L		119	75 - 120
tert-Butylbenzene	ND		100000	113000		ug/L		113	75 - 123
Perchloroethylene	ND		100000	113000		ug/L		113	75 - 120
Toluene	ND		100000	118000		ug/L		118	75 - 120
trans-1,2-Dichloroethene	ND		100000	105000		ug/L		105	77 - 120
trans-1,3-Dichloropropene	ND		100000	111000		ug/L		111	74 - 130
Trichloroethylene	ND		100000	106000		ug/L		106	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-34 MS
Matrix: Water
Analysis Batch: 285709

Client Sample ID: 042015-GW-DUP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		100000	96300		ug/L		96	71 - 130
Vinyl chloride	ND	F1 *	100000	147000	F1	ug/L		147	72 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: 500-94804-34 MSD
Matrix: Water
Analysis Batch: 285709

Client Sample ID: 042015-GW-DUP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		100000	109000		ug/L		109	75 - 122	6	20
1,1,1-Trichloroethane	ND		100000	101000		ug/L		101	72 - 130	3	20
1,1,2,2-Tetrachloroethane	ND		100000	109000		ug/L		109	72 - 130	0	20
1,1,2-Trichloroethane	ND		100000	114000		ug/L		114	75 - 120	0	20
1,1-Dichloroethane	ND	*	100000	115000		ug/L		115	75 - 120	3	20
1,1-Dichloroethylene	ND		100000	101000		ug/L		101	69 - 120	0	20
1,1-Dichloropropene	ND		100000	105000		ug/L		105	75 - 130	1	20
1,2,3-Trichlorobenzene	ND		100000	95700		ug/L		96	69 - 131	1	20
1,2,3-Trichloropropane	ND		100000	106000		ug/L		106	65 - 132	0	20
1,2,4-Trichlorobenzene	ND		100000	102000		ug/L		102	73 - 130	2	20
1,2,4-Trimethylbenzene	ND	*	100000	112000		ug/L		112	75 - 121	3	20
1,2-Dibromo-3-Chloropropane	ND		100000	96500		ug/L		97	62 - 130	6	20
1,2-Dibromoethane	ND		100000	111000		ug/L		111	78 - 122	0	20
1,2-Dichlorobenzene	ND		100000	111000		ug/L		111	75 - 120	1	20
1,2-Dichloroethane	ND		100000	105000		ug/L		105	69 - 130	3	20
1,2-Dichloropropane	ND	F1 *	100000	125000	F1	ug/L		125	75 - 120	0	20
1,3,5-Trimethylbenzene	ND		100000	112000		ug/L		112	75 - 121	4	20
1,1,2-Trichlorotrifluoroethane	ND		100000	113000		ug/L		113	69 - 120	2	20
1,3-Dichlorobenzene	ND		100000	108000		ug/L		108	75 - 120	2	20
1,3-Dichloropropane	ND		100000	107000		ug/L		107	77 - 124	3	20
1,4-Dichlorobenzene	ND		100000	106000		ug/L		106	75 - 120	1	20
2,2-Dichloropropane	ND		100000	93200		ug/L		93	65 - 132	1	20
2-Chlorotoluene	ND		100000	109000		ug/L		109	75 - 120	4	20
2-Hexanone	ND		100000	120000		ug/L		120	55 - 140	5	20
4-Chlorotoluene	ND		100000	108000		ug/L		108	75 - 120	3	20
4-Isopropyltoluene	ND	*	100000	111000		ug/L		111	75 - 121	4	20
Acetone	ND		100000	103000		ug/L		103	48 - 149	4	20
Benzene	ND		100000	108000		ug/L		108	75 - 120	1	20
Bromobenzene	ND		100000	111000		ug/L		111	75 - 120	3	20
Bromodichloromethane	ND		100000	108000		ug/L		108	77 - 121	2	20
Bromoform	ND		100000	105000		ug/L		105	68 - 126	4	20
Bromomethane	ND		100000	89500		ug/L		89	45 - 169	2	20
Carbon disulfide	ND		100000	96400		ug/L		96	56 - 130	2	20
Carbon tetrachloride	ND		100000	100000		ug/L		100	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94804-34 MSD
Matrix: Water
Analysis Batch: 285709

Client Sample ID: 042015-GW-DUP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	ND		100000	110000		ug/L		110	75 - 120	2	20
Chlorobromomethane	ND		100000	106000		ug/L		106	76 - 120	1	20
Vinyl acetate	ND		100000	101000		ug/L		101	40 - 137	1	20
Chloroethane	ND		100000	115000		ug/L		115	58 - 147	3	20
Chloroform	ND		100000	106000		ug/L		106	76 - 120	2	20
Chloromethane	ND	F1 *	100000	146000	F1	ug/L		146	63 - 133	6	20
cis-1,2-Dichloroethene	62000		100000	178000		ug/L		116	75 - 120	1	20
cis-1,3-Dichloropropene	ND		100000	109000		ug/L		109	78 - 130	2	20
Dibromochloromethane	ND		100000	111000		ug/L		111	71 - 126	2	20
Dibromomethane	ND		100000	103000		ug/L		103	75 - 120	1	20
Dichlorodifluoromethane	ND		100000	98500		ug/L		98	41 - 146	8	20
Ethylbenzene	ND		100000	107000		ug/L		107	75 - 120	4	20
Hexachlorobutadiene	ND		100000	106000		ug/L		106	71 - 131	5	20
Isopropylbenzene	ND		100000	108000		ug/L		108	75 - 121	4	20
m&p-Xylene	ND		100000	109000		ug/L		109	75 - 120	3	20
Methyl Ethyl Ketone	ND		100000	125000		ug/L		125	53 - 142	0	20
methyl isobutyl ketone	ND		100000	126000		ug/L		126	58 - 135	5	20
Methyl tert-butyl ether	ND		100000	105000		ug/L		105	75 - 130	1	20
Methylene Chloride	ND		100000	105000		ug/L		105	73 - 130	2	20
Naphthalene	ND		100000	108000		ug/L		108	69 - 135	3	20
n-Butylbenzene	ND		100000	106000		ug/L		106	75 - 121	4	20
N-Propylbenzene	ND		100000	108000		ug/L		108	75 - 120	3	20
o-Xylene	ND	*	100000	110000		ug/L		110	75 - 120	3	20
sec-Butylbenzene	ND		100000	108000		ug/L		108	75 - 120	4	20
Styrene	ND	*	100000	115000		ug/L		115	75 - 120	3	20
tert-Butylbenzene	ND		100000	109000		ug/L		109	75 - 123	3	20
Perchloroethylene	ND		100000	108000		ug/L		108	75 - 120	4	20
Toluene	ND		100000	114000		ug/L		114	75 - 120	3	20
trans-1,2-Dichloroethene	ND		100000	103000		ug/L		103	77 - 120	3	20
trans-1,3-Dichloropropene	ND		100000	107000		ug/L		107	74 - 130	3	20
Trichloroethylene	ND		100000	103000		ug/L		103	75 - 120	4	20
Trichlorofluoromethane	ND		100000	94800		ug/L		95	71 - 130	2	20
Vinyl chloride	ND	F1 *	100000	139000	F1	ug/L		139	72 - 123	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-285883/6
Matrix: Water
Analysis Batch: 285883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 10:08	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 10:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 10:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285883/6
Matrix: Water
Analysis Batch: 285883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:08	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 10:08	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 10:08	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 10:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 10:08	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 10:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 10:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 10:08	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 10:08	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 10:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:08	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 10:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 10:08	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 10:08	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:08	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 10:08	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:08	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 10:08	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 10:08	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 10:08	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 10:08	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 10:08	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 10:08	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 10:08	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 10:08	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 10:08	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 10:08	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 10:08	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 10:08	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 10:08	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 10:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 10:08	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 10:08	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 10:08	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 10:08	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 10:08	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 10:08	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 10:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 10:08	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 10:08	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 10:08	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 10:08	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 10:08	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:08	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 10:08	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 10:08	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 10:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285883/6
Matrix: Water
Analysis Batch: 285883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 10:08	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 10:08	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 10:08	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:08	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:08	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 10:08	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 10:08	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 10:08	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:08	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 10:08	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 10:08	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 10:08	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 10:08	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 10:08	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 10:08	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*04/29/15 10:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/29/15 10:08*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*04/29/15 10:08*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*04/29/15 10:08*	*1*

Lab Sample ID: LCS 500-285883/4
Matrix: Water
Analysis Batch: 285883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	75 - 122
1,1,1-Trichloroethane	50.0	44.0		ug/L		88	72 - 130
1,1,2,2-Tetrachloroethane	50.0	43.8		ug/L		88	72 - 130
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	75 - 120
1,1-Dichloroethane	50.0	48.8		ug/L		98	75 - 120
1,1-Dichloroethylene	50.0	42.1		ug/L		84	69 - 120
1,1-Dichloropropene	50.0	45.2		ug/L		90	75 - 130
1,2,3-Trichlorobenzene	50.0	45.9		ug/L		92	69 - 131
1,2,3-Trichloropropane	50.0	43.8		ug/L		88	65 - 132
1,2,4-Trichlorobenzene	50.0	49.7		ug/L		99	73 - 130
1,2,4-Trimethylbenzene	50.0	48.5		ug/L		97	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	62 - 130
1,2-Dibromoethane	50.0	46.1		ug/L		92	78 - 122
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	75 - 120
1,2-Dichloroethane	50.0	42.2		ug/L		84	69 - 130
1,2-Dichloropropane	50.0	50.1		ug/L		100	75 - 120
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	41.6		ug/L		83	69 - 120
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	75 - 120
1,3-Dichloropropane	50.0	45.9		ug/L		92	77 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285883/4
Matrix: Water
Analysis Batch: 285883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	50.0	46.2		ug/L		92	75 - 120
2,2-Dichloropropane	50.0	42.5		ug/L		85	65 - 132
2-Chlorotoluene	50.0	47.5		ug/L		95	75 - 120
2-Hexanone	50.0	53.0		ug/L		106	55 - 140
4-Chlorotoluene	50.0	46.3		ug/L		93	75 - 120
4-Isopropyltoluene	50.0	50.2		ug/L		100	75 - 121
Acetone	50.0	46.0		ug/L		92	48 - 149
Benzene	50.0	45.2		ug/L		90	75 - 120
Bromobenzene	50.0	45.8		ug/L		92	75 - 120
Bromodichloromethane	50.0	44.4		ug/L		89	77 - 121
Bromoform	50.0	48.1		ug/L		96	68 - 126
Bromomethane	50.0	36.9		ug/L		74	45 - 169
Carbon disulfide	50.0	40.7		ug/L		81	56 - 130
Carbon tetrachloride	50.0	44.0		ug/L		88	70 - 130
Chlorobenzene	50.0	47.9		ug/L		96	75 - 120
Chlorobromomethane	50.0	41.9		ug/L		84	76 - 120
Vinyl acetate	50.0	40.4		ug/L		81	40 - 137
Chloroethane	50.0	47.3		ug/L		95	58 - 147
Chloroform	50.0	43.5		ug/L		87	76 - 120
Chloromethane	50.0	55.7		ug/L		111	63 - 133
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	75 - 120
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	78 - 130
Dibromochloromethane	50.0	46.9		ug/L		94	71 - 126
Dibromomethane	50.0	41.5		ug/L		83	75 - 120
Dichlorodifluoromethane	50.0	33.5		ug/L		67	41 - 146
Ethylbenzene	50.0	48.0		ug/L		96	75 - 120
Hexachlorobutadiene	50.0	52.9		ug/L		106	71 - 131
Isopropylbenzene	50.0	47.0		ug/L		94	75 - 121
m&p-Xylene	50.0	48.8		ug/L		98	75 - 120
Methyl Ethyl Ketone	50.0	52.7		ug/L		105	53 - 142
methyl isobutyl ketone	50.0	51.2		ug/L		102	58 - 135
Methyl tert-butyl ether	50.0	43.3		ug/L		87	75 - 130
Methylene Chloride	50.0	42.8		ug/L		86	73 - 130
Naphthalene	50.0	47.3		ug/L		95	69 - 135
n-Butylbenzene	50.0	50.2		ug/L		100	75 - 121
N-Propylbenzene	50.0	47.8		ug/L		96	75 - 120
o-Xylene	50.0	48.8		ug/L		98	75 - 120
sec-Butylbenzene	50.0	48.4		ug/L		97	75 - 120
Styrene	50.0	50.4		ug/L		101	75 - 120
tert-Butylbenzene	50.0	48.5		ug/L		97	75 - 123
Perchloroethylene	50.0	49.4		ug/L		99	75 - 120
Toluene	50.0	48.0		ug/L		96	75 - 120
trans-1,2-Dichloroethene	50.0	43.8		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	74 - 130
Trichloroethylene	50.0	44.7		ug/L		89	75 - 120
Trichlorofluoromethane	50.0	38.4		ug/L		77	71 - 130
Vinyl chloride	50.0	55.7		ug/L		111	72 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285883/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 285883

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	91		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-273654/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.22	ug/L			04/21/15 07:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127		04/21/15 07:53	1

Lab Sample ID: LCS 280-273654/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273654

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			5.00	4.01		ug/L		80	25 - 141		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127

Lab Sample ID: LCSD 280-273654/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	4.50		ug/L		90	25 - 141	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW01 (51-55)

Lab Sample ID: 500-94804-1
Date Collected: 04/15/15 14:15
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 02:14	PMF	TAL CHI

Client Sample ID: RI(A1)-GW03 (51-55)

Lab Sample ID: 500-94804-2
Date Collected: 04/15/15 11:00
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 02:41	PMF	TAL CHI

Client Sample ID: RI(A1)-GW04 (51-55)

Lab Sample ID: 500-94804-4
Date Collected: 04/15/15 12:15
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 03:07	PMF	TAL CHI

Client Sample ID: RI(A1)-GW04 (71-75)

Lab Sample ID: 500-94804-5
Date Collected: 04/15/15 12:30
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 03:33	PMF	TAL CHI

Client Sample ID: RI(A1)-GW06 (51-55)

Lab Sample ID: 500-94804-6
Date Collected: 04/15/15 15:15
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	285605	04/28/15 04:00	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	285709	04/28/15 17:22	PMF	TAL CHI

Client Sample ID: RI(A1)-GW06 (71-75)

Lab Sample ID: 500-94804-7
Date Collected: 04/15/15 15:30
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 04:26	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-GW07 (51-55)

Lab Sample ID: 500-94804-8

Date Collected: 04/15/15 16:00
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	285605	04/28/15 04:52	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	285709	04/28/15 17:50	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 11:32	MRM	TAL DEN

Client Sample ID: MW-100A

Lab Sample ID: 500-94804-9

Date Collected: 04/15/15 10:15
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	285605	04/28/15 05:19	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10000	285883	04/29/15 10:35	PMF	TAL CHI

Client Sample ID: MW-100B

Lab Sample ID: 500-94804-10

Date Collected: 04/15/15 11:45
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	285605	04/28/15 05:46	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	2000	285709	04/28/15 18:45	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 11:57	MRM	TAL DEN

Client Sample ID: MW-101A

Lab Sample ID: 500-94804-11

Date Collected: 04/15/15 08:30
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 06:13	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	285709	04/28/15 19:13	PMF	TAL CHI

Client Sample ID: MW-101B

Lab Sample ID: 500-94804-12

Date Collected: 04/14/15 11:50
Matrix: Water
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 13:04	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	285709	04/28/15 12:06	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 14:07	MRM	TAL DEN

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-102A — Lab Sample ID: 500-94804-13

Date Collected: 04/14/15 09:05 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 13:31	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	5	285709	04/28/15 12:35	PMF	TAL CHI

Client Sample ID: MW-102B — Lab Sample ID: 500-94804-14

Date Collected: 04/14/15 10:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	285512	04/27/15 13:59	PMF	TAL CHI
Total/NA	Analysis	8260B		1	285707	04/28/15 13:33	PMF	TAL CHI

Client Sample ID: MW-102C (PDB) — Lab Sample ID: 500-94804-15

Date Collected: 04/14/15 10:40 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	285512	04/27/15 14:26	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	1000	285709	04/28/15 13:04	PMF	TAL CHI

Client Sample ID: MW-103A — Lab Sample ID: 500-94804-16

Date Collected: 04/14/15 17:15 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	285512	04/27/15 14:54	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	500	285709	04/28/15 13:32	PMF	TAL CHI

Client Sample ID: MW-103B — Lab Sample ID: 500-94804-17

Date Collected: 04/14/15 14:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	285512	04/27/15 15:22	PMF	TAL CHI
Total/NA	Analysis	8260B		1	285707	04/28/15 14:01	PMF	TAL CHI

Client Sample ID: MW-103C — Lab Sample ID: 500-94804-18

Date Collected: 04/14/15 15:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	285512	04/27/15 15:51	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-103C — Lab Sample ID: 500-94804-18

Date Collected: 04/14/15 15:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	200	285709	04/28/15 14:01	PMF	TAL CHI

Client Sample ID: MW-104A — Lab Sample ID: 500-94804-19

Date Collected: 04/14/15 14:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 16:19	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	285709	04/28/15 14:30	PMF	TAL CHI

Client Sample ID: MW-104B — Lab Sample ID: 500-94804-20

Date Collected: 04/14/15 15:15 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	285512	04/27/15 16:46	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	285709	04/28/15 14:59	PMF	TAL CHI

Client Sample ID: MW-104C (PDB) — Lab Sample ID: 500-94804-21

Date Collected: 04/14/15 16:20 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	285512	04/27/15 17:14	PMF	TAL CHI
Total/NA	Analysis	8260B		1	285707	04/28/15 14:30	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 12:33	MRM	TAL DEN

Client Sample ID: MW-105C — Lab Sample ID: 500-94804-22

Date Collected: 04/13/15 16:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 15:59	PMF	TAL CHI

Client Sample ID: MW-10B — Lab Sample ID: 500-94804-23

Date Collected: 04/14/15 10:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 17:41	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-10D — Lab Sample ID: 500-94804-24

Date Collected: 04/14/15 09:15 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 18:09	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	285709	04/28/15 15:28	PMF	TAL CHI

Client Sample ID: MW-16B — Lab Sample ID: 500-94804-25

Date Collected: 04/14/15 12:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 18:37	PMF	TAL CHI

Client Sample ID: MW-16D — Lab Sample ID: 500-94804-26

Date Collected: 04/14/15 10:45 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285512	04/27/15 19:04	PMF	TAL CHI

Client Sample ID: MW-104C (LOW FLOW) — Lab Sample ID: 500-94804-27

Date Collected: 04/14/15 16:20 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	285512	04/27/15 19:32	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	50	285709	04/28/15 15:56	PMF	TAL CHI

Client Sample ID: MW-19D — Lab Sample ID: 500-94804-28

Date Collected: 04/13/15 16:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 16:27	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 14:26	MRM	TAL DEN

Client Sample ID: MW-20B — Lab Sample ID: 500-94804-29

Date Collected: 04/13/15 15:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 16:54	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: MW-20D — Lab Sample ID: 500-94804-30

Date Collected: 04/13/15 16:10 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 17:23	PMF	TAL CHI

Client Sample ID: MW-21B — Lab Sample ID: 500-94804-31

Date Collected: 04/13/15 17:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 17:51	PMF	TAL CHI

Client Sample ID: FR-6D — Lab Sample ID: 500-94804-32

Date Collected: 04/13/15 17:15 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 18:19	PMF	TAL CHI

Client Sample ID: 042015-GW-DUP01 — Lab Sample ID: 500-94804-33

Date Collected: 04/15/15 00:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285605	04/28/15 06:40	PMF	TAL CHI

Client Sample ID: 042015-GW-DUP02 — Lab Sample ID: 500-94804-34

Date Collected: 04/15/15 00:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	285605	04/28/15 07:06	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	2000	285709	04/28/15 19:42	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	273654	04/21/15 13:11	MRM	TAL DEN

Client Sample ID: RI(A1)-SW01 — Lab Sample ID: 500-94804-35

Date Collected: 04/13/15 13:30 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 18:46	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Client Sample ID: RI(A1)-SW02 — Lab Sample ID: 500-94804-36

Date Collected: 04/13/15 13:45 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 19:15	PMF	TAL CHI

Client Sample ID: RI(A1)-SW03 — Lab Sample ID: 500-94804-37

Date Collected: 04/13/15 14:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 19:42	PMF	TAL CHI

Client Sample ID: 042015-SW-DUP01 — Lab Sample ID: 500-94804-38

Date Collected: 04/13/15 00:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 20:10	PMF	TAL CHI

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-94804-39

Date Collected: 04/13/15 00:00 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285322	04/24/15 13:41	PMF	TAL CHI

Client Sample ID: MW-102C (LOW FLOW) — Lab Sample ID: 500-94804-40

Date Collected: 04/14/15 10:40 — **Matrix: Water**
Date Received: 04/17/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	500	285605	04/28/15 07:33	PMF	TAL CHI
Total/NA	Analysis	8260B		50	285707	04/28/15 14:59	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94804-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	291	12-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichlorotrifluoroethane
8260B		Water	1,1-Dichloropropene

Laboratory: TestAmerica Denver

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	358	12-31-15

AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

Page (1) of (4)

CHAIN OF CUSTODY

Phone: (224) 667-1254

Sample Collector(s): TOM NAUMANN, ANDY NEAL
Requested By: ERM
Division: N/A
Dept: N/A
Site: FORMER ABBOTT LABS, LAURINBURG, NC
500-94804 COC
Report Sent to: GRANT.WATKINS@ERM.COM
Field Project Name / Number: 0277899

TURNAROUND TIME REQUESTED: (Normal) RUSH*
* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? (Yes) No

ANALYSIS & METHOD REQUESTED: 500-94804

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G (GLASS?)	P (PLASTIC?)	TYPE[b]	PRESERVATIVE[c] TYPE	VOCs (8260B)	+10 TICs (8260B)	1,4-DIOXANE (8260B SIM)		Sample Temperature[d] 0.8°C 1.2 A[e]	R[e]	CONDITION CODE[f]
1	RI(A1)-GW01 (51-55)	4/15/15	1415	G		✓	△3	3	Ø	A	HCl	X	●			✓		
NO SAMPLE	~~RI(A1)-GW02 (51-55)~~	/ /																
2	RI(A1)-GW03 (51-55)	4/15/15	1100													✓		
3	RI(A1)-GW03 (71-75)	4/15/15	1130													✓		
4	RI(A1)-GW04 (51-55)	4/15/15	1215													✓		
5	RI(A1)-GW04 (71-75)	4/15/15	1230													✓		
NO SAMPLE	~~RI(A1)-GW05 (51-55)~~	/ /											●					
6	RI(A1)-GW06 (51-55)	4/15/15	1515													✓		
7	RI(A1)-GW06 (71-75)	4/15/15	1530													✓		
8	RI(A1)-GW07 (51-55)	4/15/15	1600			✓	6	6	✓	✓	✓	✓	X	X		✓		
NO SAMPLE	~~RI(A1)-GW08 (51-55)~~	/ /																

GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:
△ 6 vials received
* 51-55 not on vial label
** 2 vials labeled RI A1 GW01 51-55
4-16-15

1. Relinquished By:	Date: / Time:	2. Relinquished By: Pam Kleen	Date: 4-16-15 Time: 5:00 pm	3. Relinquished By:	Date: / Time:
Received By: Pam Kleen	Date: 4-16-15 Time: 2:05 pm	Received By: Sheri Scott	Date: 4/17/15 Time: 1020	Received By:	Date: / Time:

PLEASE FILL OUT CHAIN OF CUSTODY RECORD COMPLETELY!

AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

Page (2) of (4)

CHAIN OF CUSTODY

Phone: (224) 667-1254

Sample Collector(s): TOM NAUMANN, ANDY NEAL
Requested By: GRANT WATKINS, ERM
Division: N/A
Dept: N/A
Site: FORMER ABBOTT LABS, LAURINBURG, NC
Report Sent to: GRANT.WATKINS@ERM.COM
Field Project Name / Number

TURNAROUND TIME REQUESTED
(Normal) RUSH*
* If **RUSH**, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency?
(Yes) No

ANALYSIS & METHOD REQUESTED

500-94804

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G	P	TYPE[b]	PRESERVATIVE[c] TYPE	VOC's (8260B)	+10 TICs (8260B)	1,4 Dioxane (8260B Sim)		Sample Temperature[d] 0.8°C A[e]	R[e]	CONDITION CODE[f]
9	MW-100A	4/15/15	1015	G		✓	3			A	HCl	✓				✓		
10	MW-100B	4/15/15	1145	↓		↓	6			↓	↓	✓		✓		✓		
11	MW-101A	4/15/15	0830	↓		↓	3			↓	↓	✓				✓		
12	MW-101B	4/14/15	1150	↓		↓	6			↓	↓	✓		✓		✓		
13	MW-102A	4/14/15	0905	↓		↓	3			↓	↓	✓				✓		
14	MW-102B	4/14/15	1000	↓		↓	↓			↓	↓	✓				✓		
15	MW-102C (PDB)	4/14/15	1040	↓		↓	↓			↓	↓	✓				✓		
16	MW-103A	4/14/15	1715	↓		↓	↓			↓	↓	✓				✓		
17	MW-103B	4/14/15	1430	↓		↓	↓			↓	↓	✓				✓		
18	MW-103C	4/14/15	1530	↓		↓	↓			↓	↓	✓				✓		
19	MW-104A	4/14/15	1430	↓		↓	↓			↓	↓	✓				✓		

GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By:	Date: / Time:	2. Relinquished By: Pam Kram	Date: 4-16-15 Time: 5:00 pm	3. Relinquished By:	Date: / Time:
Received By: Pam Kram	Date: 4-16-15 Time: 2:05 pm	Received By: Sherri Scott	Date: 4/17/15 Time: 1020	Received By:	Date: / Time:

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AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

CHAIN OF CUSTODY

Page (3) of (4)

Phone: (224) 667-1254

Sample Collector(s): TOM NAUMANN, ANDY NEAL
Requested By: GRANT WATKINS, ERM
Division: N/A
Dept: N/A
Site: FORMER ABBOTT LABS, LAURINBURG, NC
Report Sent to: GRANT.WATKINS@ERM.COM
Field Project Name / Number

TURNAROUND TIME REQUESTED: Normal / RUSH*
* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? Yes / No

ANALYSIS & METHOD REQUESTED: VOC's (8260B), +10 TICs (8260B), 1,4 DIOXANE (8260B SIM)

500-94804

Sample Temperature[d]: 0.8°C

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G	P	TYPE[b]	PRESERVATIVE[c] TYPE	VOC's (8260B)	+10 TICs (8260B)	1,4 DIOXANE (8260B SIM)		A[e]	R[e]	CONDITION CODE[f]
20	MW-104B	4/14/15	1515	G		✓	3	✓		A	HCl	✓	✓			✓		
21	MW-104C (PDB)	4/14/15	1620	↓		↓	6	↓		↓	↓	✓	✓	✓		✓		
22	MW-105C	4/13/15	1600				3					✓				✓		
23	MW-10B	4/14/15	1030				3					✓				✓		
24	MW-10D **	4/14/15	0915				3					✓				✓		
25	MW-16B	4/14/15	1200				3					✓	✓			✓		
26	MW-16D	4/14/15	1045				3					✓	✓			✓		
27	~~MW-18B~~ MW-104C (DWFM)	4/14/15	1620				3					✓	●	●		✓		
	~~MW-18D~~ 042015-SOIL-AUGER-RINSE01	4/14/15	1645				3					✓	●	●				
28	MW-19D	4/13/15	1630				6					✓	✓	✓		✓		
29	MW-20B	4/13/15	1530	↓		↓	3	↓		↓	↓	✓	✓			✓		

GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:
** Date on vial is 3-14-15 Pam Klein

1. Relinquished By:	Date: / Time:	2. Relinquished By: Pam Klein	Date: 4-16-15 Time: 5:00pm	3. Relinquished By:	Date: / Time:
Received By: Pam Klein	Date: 4-16-15 Time: 2:05pm	Received By: Ahern Scott	Date: 4/17/15 Time: 1020	Received By:	Date: / Time:

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AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

Page (4) of (4)

CHAIN OF CUSTODY

Phone: (224) 667-1254

Sample Collector(s): TOM NAUMANN, ANDY NEAL
Requested By: GRANT WATKINS, ERM
Division: N/A
Dept: N/A
Site: FORMER ABBOTT LABS, LAURINBURG, NC
Report Sent to: GRANT.WATKINS@ERM.COM
Field Project Name / Number

TURNAROUND TIME REQUESTED: (Normal) RUSH*
* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? (Yes) No

ANALYSIS & METHOD REQUESTED: 500-94804

Sample Temperature[d]: 0.5°C

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G	P	TYPE[b]	PRESERVATIVE[c] TYPE	VOC's (8260B)	TIC's (8260B)	1,4 Dioxane (8260 SIM)		A[e]	R[e]	CONDITION CODE[f]
30	MW-20D	4/13/15	1610	G		✓	3			A	HCl	✓	✓			✓		
31	MW-[redacted]21B	4/13/15	1730									✓	✓			✓		
32	FR-6D	4/13/15	1715				3					✓	✓			✓		
33	042015-GW-DUP01*	3/14/15					3					✓				✓		
34	042015-GW-DUP02**	3/14/15					6					✓		✓	**A* pH	✓		
35	RI(A1)-SW01	4/13/15	1330									✓				✓		
36	RI(A1)-SW02	4/13/15	1345				3					✓				✓		
37	RI(A1)-SW03	4/13/15	1400									✓				✓		
38	042015-SW-DUP01	4/13/15					3					✓				✓		
39	TRIP BLANK	4/8/15					2					✓				✓		
40	MW-102C (LOW FLOW)	4/14/15	1040				3					✓				✓		

GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:
** Date is 4-15-15 on vial label
* Date is 4-15-15 on vial label.
Pam Naumann 4-16-15

1. Relinquished By:	Date: / Time:	2. Relinquished By: Pam Naumann	Date: 4-16-15 Time: 5:00pm	3. Relinquished By:	Date: / Time:
Received By: Pam Naumann	Date: 4-16-15 Time: 2:05 PM	Received By: Sherri Scott	Date: 4/17/15 Time: 1020	Received By:	Date: / Time:

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0.8-0021R-5
4/18/15 [illegible]

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-60747.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 500-94804-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/29/2015			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Laurinburg, NC VOC Testing (60135880)	Project #: 50003645			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RI(A1)-GW07 (51-55) (500-94804-8)	4/15/15	16:00 Central		Water			X	3	
MW-100B (500-94804-10)	4/15/15	11:45 Central		Water			X	3	
MW-101B (500-94804-12)	4/14/15	11:50 Central		Water			X	3	
MW-104C (PDB) (500-94804-21)	4/14/15	16:20 Central		Water			X	3	
MW-19D (500-94804-28)	4/13/15	16:30 Central		Water			X	3	
042015-GW-DUP02 (500-94804-34)	4/15/15	Central		Water			X	3	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 4/17/15 1500	Company: TA-HI	Received by: [signature]	Date/Time: 4/18/15 905	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Yes No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94804-1

Login Number: 94804
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	1.2
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 containers received and the COC.	False	
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94804-1

Login Number: 94804
List Number: 2
Creator: Orfield, Tayler C

List Source: TestAmerica Denver
List Creation: 04/18/15 01:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-94855-1
Client Project/Site: Laurinburg, NC VOC Testing

For:
AbbVie US LLC
200 Abbott Park Road
Dept V5IH, Bldg AP 52N
North Chicago, Illinois 60064-6217

Attn: Pam Kramer

Authorized for release by:
4/30/2015 2:57:32 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-94855-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-94855-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2015 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 285699 recovered outside control limits for the following analytes: Perchloroethylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18B — Lab Sample ID: 500-94855-1

No Detections.

Client Sample ID: MW-18D — Lab Sample ID: 500-94855-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	92		5.0	0.22	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethylene	0.68		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-94855-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94855-1	MW-18B	Water	04/16/15 09:50	04/18/15 09:10
500-94855-2	MW-18D	Water	04/16/15 08:50	04/18/15 09:10
500-94855-3	Trip Blank	Water	04/16/15 00:00	04/18/15 09:10

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18B

Date Collected: 04/16/15 09:50
Date Received: 04/18/15 09:10

Lab Sample ID: 500-94855-1

Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.22	ug/L			04/24/15 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*04/24/15 16:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 12:58	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 12:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 12:58	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 12:58	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 12:58	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 12:58	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 12:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 12:58	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 12:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 12:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 12:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 12:58	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 12:58	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 12:58	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 12:58	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 12:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 12:58	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 12:58	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 12:58	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 12:58	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 12:58	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 12:58	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 12:58	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 12:58	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 12:58	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 12:58	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 12:58	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 12:58	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 12:58	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 12:58	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 12:58	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 12:58	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 12:58	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 12:58	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 12:58	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 12:58	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 12:58	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 12:58	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 12:58	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 12:58	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 12:58	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 12:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 12:58	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18B

Lab Sample ID: 500-94855-1

Date Collected: 04/16/15 09:50
Date Received: 04/18/15 09:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 12:58	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 12:58	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 12:58	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 12:58	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 12:58	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 12:58	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 12:58	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 12:58	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 12:58	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 12:58	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 12:58	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 12:58	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 12:58	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 12:58	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 12:58	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 12:58	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 12:58	1
Perchloroethylene	ND	*	1.0	0.17	ug/L			04/28/15 12:58	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 12:58	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 12:58	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 12:58	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 12:58	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 12:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 12:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/28/15 12:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*04/28/15 12:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/28/15 12:58*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*04/28/15 12:58*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 12:58*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18D

Date Collected: 04/16/15 08:50
Date Received: 04/18/15 09:10

Lab Sample ID: 500-94855-2

Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.22	ug/L			04/24/15 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*04/24/15 17:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 13:23	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 13:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 13:23	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 13:23	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 13:23	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 13:23	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 13:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 13:23	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 13:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 13:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 13:23	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 13:23	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 13:23	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 13:23	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 13:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 13:23	1
1,1,2-Trichlorotrifluoroethane	**92**		5.0	0.22	ug/L			04/28/15 13:23	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 13:23	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 13:23	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 13:23	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 13:23	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 13:23	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 13:23	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 13:23	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 13:23	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 13:23	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 13:23	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 13:23	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 13:23	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 13:23	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 13:23	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 13:23	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 13:23	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 13:23	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 13:23	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 13:23	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 13:23	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 13:23	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 13:23	1
cis-1,2-Dichloroethene	**10**		1.0	0.12	ug/L			04/28/15 13:23	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 13:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 13:23	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18D

Lab Sample ID: 500-94855-2

Date Collected: 04/16/15 08:50
Matrix: Water
Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 13:23	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 13:23	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 13:23	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 13:23	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:23	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 13:23	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 13:23	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 13:23	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 13:23	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 13:23	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 13:23	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 13:23	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 13:23	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 13:23	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 13:23	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 13:23	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 13:23	1
Perchloroethylene	ND	*	1.0	0.17	ug/L			04/28/15 13:23	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 13:23	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 13:23	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 13:23	1
Trichloroethylene	**0.68**		0.50	0.19	ug/L			04/28/15 13:23	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 13:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 13:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethane, 1,2-dichloro-1,1,2-trifluoro-	*7.3*	*T J N*	*ug/L*		*3.00*	*354-23-4*		*04/28/15 13:23*	*1*
Isopropyl alcohol	*180*		*ug/L*		*3.45*	*67-63-0*		*04/28/15 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*		*04/28/15 13:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*04/28/15 13:23*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*04/28/15 13:23*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/28/15 13:23*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94855-3

Date Collected: 04/16/15 00:00
Matrix: Water
Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 10:56	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 10:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 10:56	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:56	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 10:56	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 10:56	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 10:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 10:56	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 10:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 10:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 10:56	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 10:56	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 10:56	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:56	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 10:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 10:56	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 10:56	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:56	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 10:56	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:56	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 10:56	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 10:56	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 10:56	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 10:56	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 10:56	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 10:56	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 10:56	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 10:56	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 10:56	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 10:56	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 10:56	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 10:56	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 10:56	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 10:56	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 10:56	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 10:56	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 10:56	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 10:56	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 10:56	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 10:56	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 10:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 10:56	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 10:56	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 10:56	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 10:56	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 10:56	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:56	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 10:56	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94855-3

Date Collected: 04/16/15 00:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 10:56	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 10:56	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 10:56	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 10:56	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 10:56	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:56	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:56	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 10:56	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 10:56	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 10:56	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:56	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 10:56	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 10:56	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 10:56	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 10:56	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 10:56	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 10:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*		*04/29/15 10:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*04/29/15 10:56*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*04/29/15 10:56*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/29/15 10:56*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

GC/MS VOA

Analysis Batch: 274289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94855-1	MW-18B	Total/NA	Water	8260B SIM	
500-94855-2	MW-18D	Total/NA	Water	8260B SIM	
LCS 280-274289/3	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 280-274289/4	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
MB 280-274289/5	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 285699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94855-1	MW-18B	Total/NA	Water	8260B	
500-94855-2	MW-18D	Total/NA	Water	8260B	
LCS 500-285699/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285699/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94855-3	Trip Blank	Total/NA	Water	8260B	
LCS 500-285880/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285880/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-94855-1	MW-18B	106	95	104	97
500-94855-2	MW-18D	103	99	102	98
500-94855-3	Trip Blank	98	101	101	100
LCS 500-285699/4	Lab Control Sample	104	90	108	102
LCS 500-285880/4	Lab Control Sample	100	98	107	104
MB 500-285699/6	Method Blank	100	102	102	97
MB 500-285880/6	Method Blank	102	103	104	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DCE
Lab Sample ID	Client Sample ID	(70-127)
500-94855-1	MW-18B	101
500-94855-2	MW-18D	102
LCS 280-274289/3	Lab Control Sample	100
LCSD 280-274289/4	Lab Control Sample Dup	102
MB 280-274289/5	Method Blank	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-285699/6
Matrix: Water
Analysis Batch: 285699

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 10:29	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 10:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 10:29	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 10:29	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 10:29	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 10:29	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 10:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 10:29	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 10:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 10:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 10:29	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 10:29	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 10:29	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 10:29	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 10:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 10:29	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 10:29	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 10:29	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 10:29	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 10:29	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 10:29	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 10:29	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 10:29	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 10:29	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 10:29	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 10:29	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 10:29	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 10:29	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 10:29	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 10:29	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 10:29	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 10:29	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 10:29	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 10:29	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 10:29	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 10:29	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 10:29	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 10:29	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 10:29	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 10:29	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 10:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 10:29	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 10:29	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 10:29	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 10:29	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 10:29	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285699/6
Matrix: Water
Analysis Batch: 285699

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 10:29	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 10:29	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 10:29	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 10:29	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 10:29	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 10:29	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 10:29	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 10:29	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 10:29	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 10:29	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 10:29	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 10:29	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 10:29	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 10:29	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 10:29	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 10:29	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 10:29	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 10:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 10:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/28/15 10:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*		*04/28/15 10:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*04/28/15 10:29*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*04/28/15 10:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/28/15 10:29*	*1*

Lab Sample ID: LCS 500-285699/4
Matrix: Water
Analysis Batch: 285699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.6		ug/L		119	75 - 122
1,1,1-Trichloroethane	50.0	58.0		ug/L		116	72 - 130
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	72 - 130
1,1,2-Trichloroethane	50.0	57.7		ug/L		115	75 - 120
1,1-Dichloroethane	50.0	54.3		ug/L		109	75 - 120
1,1-Dichloroethylene	50.0	54.4		ug/L		109	69 - 120
1,1-Dichloropropene	50.0	54.5		ug/L		109	75 - 130
1,2,3-Trichlorobenzene	50.0	54.8		ug/L		110	69 - 131
1,2,3-Trichloropropane	50.0	53.6		ug/L		107	65 - 132
1,2,4-Trichlorobenzene	50.0	55.4		ug/L		111	73 - 130
1,2,4-Trimethylbenzene	50.0	53.6		ug/L		107	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	59.6		ug/L		119	62 - 130
1,2-Dibromoethane	50.0	55.7		ug/L		111	78 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285699/4
Matrix: Water
Analysis Batch: 285699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	55.4		ug/L		111	75 - 120
1,2-Dichloroethane	50.0	57.9		ug/L		116	69 - 130
1,2-Dichloropropane	50.0	52.2		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	56.0		ug/L		112	69 - 120
1,3-Dichlorobenzene	50.0	55.2		ug/L		110	75 - 120
1,3-Dichloropropane	50.0	51.5		ug/L		103	77 - 124
1,4-Dichlorobenzene	50.0	54.5		ug/L		109	75 - 120
2,2-Dichloropropane	50.0	57.1		ug/L		114	65 - 132
2-Chlorotoluene	50.0	50.4		ug/L		101	75 - 120
2-Hexanone	50.0	56.2		ug/L		112	55 - 140
4-Chlorotoluene	50.0	50.2		ug/L		100	75 - 120
4-Isopropyltoluene	50.0	54.3		ug/L		109	75 - 121
Acetone	50.0	69.2		ug/L		138	48 - 149
Benzene	50.0	53.1		ug/L		106	75 - 120
Bromobenzene	50.0	49.9		ug/L		100	75 - 120
Bromodichloromethane	50.0	57.6		ug/L		115	77 - 121
Bromoform	50.0	55.9		ug/L		112	68 - 126
Bromomethane	50.0	55.0		ug/L		110	45 - 169
Carbon disulfide	50.0	50.7		ug/L		101	56 - 130
Carbon tetrachloride	50.0	59.3		ug/L		119	70 - 130
Chlorobenzene	50.0	56.5		ug/L		113	75 - 120
Chlorobromomethane	50.0	57.6		ug/L		115	76 - 120
Vinyl acetate	50.0	52.0		ug/L		104	40 - 137
Chloroethane	50.0	39.5		ug/L		79	58 - 147
Chloroform	50.0	53.9		ug/L		108	76 - 120
Chloromethane	50.0	52.9		ug/L		106	63 - 133
cis-1,2-Dichloroethene	50.0	55.3		ug/L		111	75 - 120
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	78 - 130
Dibromochloromethane	50.0	54.0		ug/L		108	71 - 126
Dibromomethane	50.0	56.6		ug/L		113	75 - 120
Dichlorodifluoromethane	50.0	51.9		ug/L		104	41 - 146
Ethylbenzene	50.0	55.4		ug/L		111	75 - 120
Hexachlorobutadiene	50.0	52.7		ug/L		105	71 - 131
Isopropylbenzene	50.0	51.7		ug/L		103	75 - 121
m&p-Xylene	50.0	54.8		ug/L		110	75 - 120
Methyl Ethyl Ketone	50.0	50.6		ug/L		101	53 - 142
methyl isobutyl ketone	50.0	54.2		ug/L		108	58 - 135
Methyl tert-butyl ether	50.0	55.2		ug/L		110	75 - 130
Methylene Chloride	50.0	53.2		ug/L		106	73 - 130
Naphthalene	50.0	61.6		ug/L		123	69 - 135
n-Butylbenzene	50.0	53.7		ug/L		107	75 - 121
N-Propylbenzene	50.0	52.2		ug/L		104	75 - 120
o-Xylene	50.0	56.2		ug/L		112	75 - 120
sec-Butylbenzene	50.0	53.0		ug/L		106	75 - 120
Styrene	50.0	57.3		ug/L		115	75 - 120
tert-Butylbenzene	50.0	53.8		ug/L		108	75 - 123
Perchloroethylene	50.0	60.9	*	ug/L		122	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285699/4
Matrix: Water
Analysis Batch: 285699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	54.0		ug/L		108	75 - 120
trans-1,2-Dichloroethene	50.0	55.2		ug/L		110	77 - 120
trans-1,3-Dichloropropene	50.0	55.6		ug/L		111	74 - 130
Trichloroethylene	50.0	59.8		ug/L		120	75 - 120
Trichlorofluoromethane	50.0	52.0		ug/L		104	71 - 130
Vinyl chloride	50.0	49.9		ug/L		100	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*
Dibromofluoromethane	*108*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-285880/6
Matrix: Water
Analysis Batch: 285880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 10:31	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 10:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 10:31	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:31	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 10:31	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 10:31	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 10:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 10:31	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 10:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 10:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 10:31	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 10:31	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 10:31	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 10:31	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 10:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 10:31	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 10:31	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:31	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 10:31	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 10:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 10:31	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 10:31	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 10:31	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 10:31	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 10:31	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 10:31	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 10:31	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 10:31	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285880/6
Matrix: Water
Analysis Batch: 285880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.28	ug/L			04/29/15 10:31	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 10:31	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 10:31	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 10:31	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 10:31	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 10:31	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 10:31	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 10:31	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 10:31	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 10:31	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 10:31	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 10:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 10:31	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 10:31	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 10:31	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 10:31	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 10:31	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:31	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 10:31	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 10:31	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 10:31	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 10:31	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 10:31	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 10:31	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:31	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 10:31	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 10:31	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 10:31	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 10:31	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 10:31	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 10:31	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 10:31	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 10:31	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 10:31	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 10:31	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 10:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 125*		*04/29/15 10:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*04/29/15 10:31*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*04/29/15 10:31*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/29/15 10:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285880/4
Matrix: Water
Analysis Batch: 285880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/L		111	75 - 122
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	72 - 130
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	72 - 130
1,1,2-Trichloroethane	50.0	55.3		ug/L		111	75 - 120
1,1-Dichloroethane	50.0	49.9		ug/L		100	75 - 120
1,1-Dichloroethylene	50.0	48.9		ug/L		98	69 - 120
1,1-Dichloropropene	50.0	50.8		ug/L		102	75 - 130
1,2,3-Trichlorobenzene	50.0	55.2		ug/L		110	69 - 131
1,2,3-Trichloropropane	50.0	53.1		ug/L		106	65 - 132
1,2,4-Trichlorobenzene	50.0	55.2		ug/L		110	73 - 130
1,2,4-Trimethylbenzene	50.0	53.9		ug/L		108	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.0		ug/L		112	62 - 130
1,2-Dibromoethane	50.0	53.1		ug/L		106	78 - 122
1,2-Dichlorobenzene	50.0	55.5		ug/L		111	75 - 120
1,2-Dichloroethane	50.0	52.3		ug/L		105	69 - 130
1,2-Dichloropropane	50.0	50.3		ug/L		101	75 - 120
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	50.5		ug/L		101	69 - 120
1,3-Dichlorobenzene	50.0	55.3		ug/L		111	75 - 120
1,3-Dichloropropane	50.0	48.9		ug/L		98	77 - 124
1,4-Dichlorobenzene	50.0	53.7		ug/L		107	75 - 120
2,2-Dichloropropane	50.0	50.9		ug/L		102	65 - 132
2-Chlorotoluene	50.0	49.9		ug/L		100	75 - 120
2-Hexanone	50.0	52.6		ug/L		105	55 - 140
4-Chlorotoluene	50.0	50.5		ug/L		101	75 - 120
4-Isopropyltoluene	50.0	55.6		ug/L		111	75 - 121
Acetone	50.0	52.3		ug/L		105	48 - 149
Benzene	50.0	49.4		ug/L		99	75 - 120
Bromobenzene	50.0	49.2		ug/L		98	75 - 120
Bromodichloromethane	50.0	52.5		ug/L		105	77 - 121
Bromoform	50.0	52.0		ug/L		104	68 - 126
Bromomethane	50.0	54.6		ug/L		109	45 - 169
Carbon disulfide	50.0	44.8		ug/L		90	56 - 130
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130
Chlorobenzene	50.0	54.1		ug/L		108	75 - 120
Chlorobromomethane	50.0	54.5		ug/L		109	76 - 120
Vinyl acetate	50.0	45.0		ug/L		90	40 - 137
Chloroethane	50.0	49.8		ug/L		100	58 - 147
Chloroform	50.0	50.3		ug/L		101	76 - 120
Chloromethane	50.0	45.7		ug/L		91	63 - 133
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	75 - 120
cis-1,3-Dichloropropene	50.0	48.3		ug/L		97	78 - 130
Dibromochloromethane	50.0	51.7		ug/L		103	71 - 126
Dibromomethane	50.0	53.7		ug/L		107	75 - 120
Dichlorodifluoromethane	50.0	39.7		ug/L		79	41 - 146
Ethylbenzene	50.0	53.5		ug/L		107	75 - 120
Hexachlorobutadiene	50.0	55.6		ug/L		111	71 - 131
Isopropylbenzene	50.0	52.5		ug/L		105	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285880/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 285880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	50.0	52.0		ug/L		104	75 - 120
Methyl Ethyl Ketone	50.0	48.8		ug/L		98	53 - 142
methyl isobutyl ketone	50.0	52.9		ug/L		106	58 - 135
Methyl tert-butyl ether	50.0	50.0		ug/L		100	75 - 130
Methylene Chloride	50.0	48.7		ug/L		97	73 - 130
Naphthalene	50.0	59.7		ug/L		119	69 - 135
n-Butylbenzene	50.0	54.7		ug/L		109	75 - 121
N-Propylbenzene	50.0	52.6		ug/L		105	75 - 120
o-Xylene	50.0	53.9		ug/L		108	75 - 120
sec-Butylbenzene	50.0	54.4		ug/L		109	75 - 120
Styrene	50.0	54.6		ug/L		109	75 - 120
tert-Butylbenzene	50.0	55.0		ug/L		110	75 - 123
Perchloroethylene	50.0	58.4		ug/L		117	75 - 120
Toluene	50.0	51.9		ug/L		104	75 - 120
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	77 - 120
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	74 - 130
Trichloroethylene	50.0	55.4		ug/L		111	75 - 120
Trichlorofluoromethane	50.0	50.2		ug/L		100	71 - 130
Vinyl chloride	50.0	47.0		ug/L		94	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*107*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-274289/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.22	ug/L			04/24/15 07:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*04/24/15 07:23*	*1*

Lab Sample ID: LCS 280-274289/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	5.00	4.20		ug/L		84	25 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-274289/4
Matrix: Water
Analysis Batch: 274289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	4.95		ug/L		99	25 - 141	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Client Sample ID: MW-18B

Lab Sample ID: 500-94855-1
Date Collected: 04/16/15 09:50
Matrix: Water
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285699	04/28/15 12:58	TCT	TAL CHI
Total/NA	Analysis	8260B SIM		1	274289	04/24/15 16:42	MRM	TAL DEN

Client Sample ID: MW-18D

Lab Sample ID: 500-94855-2
Date Collected: 04/16/15 08:50
Matrix: Water
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285699	04/28/15 13:23	TCT	TAL CHI
Total/NA	Analysis	8260B SIM		1	274289	04/24/15 17:00	MRM	TAL DEN

Client Sample ID: Trip Blank

Lab Sample ID: 500-94855-3
Date Collected: 04/16/15 00:00
Matrix: Water
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285880	04/29/15 10:56	TCT	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94855-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	291	12-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichlorotrifluoroethane
8260B		Water	1,1-Dichloropropene

Laboratory: TestAmerica Denver

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	358	12-31-15

500-94855

AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

Page (1) of (1)

CHAIN OF CUSTODY

Phone: (224) 667-1254

Sample Collector(s): ANDY NEAL, Tom NAUMANN

Requested By: GRANT WATKINS, ERM

Division: N/A

Dept: N/A

Site: FORMER ABBOTT LABS

500-94855 COC

Report Sent to: GRANT.WATKINS@ERM.COM

Field Project Name / Number

TURNAROUND TIME REQUESTED: Normal RUSH*

* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? Yes No

ANALYSIS & METHOD REQUESTED

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	CONTAINERS G	CONTAINERS P	CONTAINERS TYPE[b]	PRESERVATIVE[c] TYPE	VOCs (8260B)	10 TICs (8260B)	1-4 DIOXANE		Sample Temperature[d] 1.2°C A[e]	R[e]	CONDITION CODE[f]
1 MW-18B	4/16/15	0950	G		✓	3	3		A	HCl	✓	✓	✓		✓		
2 MW-18D	4/16/15	0850	G		✓	3	3		A	HCl	✓	✓	✓		✓		
3 TRIP BLANK	/ /					2	2		A	HCl	✓				✓		
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	/ /																

GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:
Note: 6 vials of samples MW-18B and MW 18D were received although it was documented that only 3 were sent 4/17/15

1. Relinquished By: Tom NAUMANN	Date: 4/16/15 Time: 1715	2. Relinquished By:	Date: Time:	3. Relinquished By:	Date: 4/17/15 Time: 4:45 PM
Received By: FED EX	Date: Time:	Received By:	Date: 4/17/15 Time: 1:20PM	Received By:	Date: 4/18/15 Time: 0910

3 of 1

PLEASE FILL OUT CHAIN OF CUSTODY RECORD COMPLETELY!

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-60779.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 500-94855-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/30/2015			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Laurinburg, NC VOC Testing	Project #: 50003645			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-18B (500-94855-1)	4/16/15	09:50 Central		Water			X	3	
MW-18D (500-94855-2)	4/16/15	08:50 Central		Water			X	3	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/20/15 1300	TA-CHI	[signature]	940 21Apr15	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 IRSTD12 @ 21Apr15

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94855-1

Login Number: 94855

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	3.1
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94855-1

Login Number: 94855
List Number: 2
Creator: Muniz, Ashley T

List Source: TestAmerica Denver
List Creation: 04/21/15 05:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-94856-1
Client Project/Site: Laurinburg, NC VOC Testing

For:
AbbVie US LLC
200 Abbott Park Road
Dept V5IH, Bldg AP 52N
North Chicago, Illinois 60064-6217

Attn: Pam Kramer

Authorized for release by:
4/30/2015 3:00:42 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-94856-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-94856-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2015 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1º C.

Except:

Received the following sample vials with larger than pea size bubbles. 1 vial for samples 1 & 7 and all 3 vials for samples 4 & 5

GC/MS VOA
Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: RI(A1)-GW08 (51-55) (500-94856-3) and RI(A1)-GW09 (71-75) (500-94856-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW02 (51-55) — Lab Sample ID: 500-94856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0	0.12	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW05 (51-55) — Lab Sample ID: 500-94856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.26	J	0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW08 (51-55) — Lab Sample ID: 500-94856-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		5.0	1.3	ug/L	1		8260B	Total/NA
Toluene	0.42	J	0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: RI(A1)-GW09 (51-55) — Lab Sample ID: 500-94856-4

No Detections.

Client Sample ID: RI(A1)-GW09 (71-75) — Lab Sample ID: 500-94856-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.6		5.0	1.3	ug/L	1		8260B	Total/NA
Toluene	0.43	J	0.50	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: 042015-DPTGW-SCREEN RINSE 01 — Lab Sample ID: 500-94856-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5		5.0	1.3	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-94856-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94856-1	RI(A1)-GW02 (51-55)	Water	04/16/15 09:00	04/18/15 09:10
500-94856-2	RI(A1)-GW05 (51-55)	Water	04/16/15 10:15	04/18/15 09:10
500-94856-3	RI(A1)-GW08 (51-55)	Water	04/16/15 08:30	04/18/15 09:10
500-94856-4	RI(A1)-GW09 (51-55)	Water	04/16/15 09:15	04/18/15 09:10
500-94856-5	RI(A1)-GW09 (71-75)	Water	04/16/15 09:45	04/18/15 09:10
500-94856-6	042015-DPTGW-SCREEN RINSE 01	Water	04/16/15 10:30	04/18/15 09:10
500-94856-7	Trip Blank	Water	04/16/15 00:00	04/18/15 09:10

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW02 (51-55)

Lab Sample ID: 500-94856-1

Date Collected: 04/16/15 09:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 03:08	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 03:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 03:08	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 03:08	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 03:08	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 03:08	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 03:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 03:08	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 03:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 03:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 03:08	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 03:08	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 03:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 03:08	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 03:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 03:08	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 03:08	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 03:08	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 03:08	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 03:08	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 03:08	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 03:08	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 03:08	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 03:08	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 03:08	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 03:08	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 03:08	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 03:08	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 03:08	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 03:08	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 03:08	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 03:08	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 03:08	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 03:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 03:08	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 03:08	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 03:08	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 03:08	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 03:08	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.12	ug/L			04/29/15 03:08	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 03:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 03:08	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 03:08	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 03:08	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 03:08	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 03:08	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:08	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 03:08	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW02 (51-55)

Lab Sample ID: 500-94856-1

Date Collected: 04/16/15 09:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 03:08	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 03:08	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 03:08	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 03:08	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 03:08	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 03:08	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 03:08	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 03:08	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 03:08	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 03:08	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:08	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 03:08	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 03:08	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 03:08	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 03:08	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 03:08	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 03:08	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/29/15 03:08*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/29/15 03:08*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*04/29/15 03:08*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/29/15 03:08*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW05 (51-55)

Lab Sample ID: 500-94856-2

Date Collected: 04/16/15 10:15

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 03:36	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 03:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 03:36	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 03:36	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 03:36	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 03:36	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 03:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 03:36	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 03:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 03:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 03:36	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 03:36	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 03:36	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 03:36	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 03:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 03:36	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 03:36	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 03:36	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 03:36	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 03:36	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 03:36	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 03:36	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 03:36	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 03:36	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 03:36	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 03:36	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 03:36	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 03:36	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 03:36	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 03:36	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 03:36	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 03:36	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 03:36	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 03:36	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 03:36	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 03:36	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 03:36	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 03:36	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 03:36	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 03:36	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 03:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 03:36	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 03:36	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 03:36	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 03:36	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 03:36	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:36	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 03:36	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW05 (51-55)

Lab Sample ID: 500-94856-2

Date Collected: 04/16/15 10:15

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 03:36	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 03:36	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 03:36	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 03:36	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 03:36	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 03:36	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 03:36	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 03:36	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 03:36	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 03:36	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 03:36	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 03:36	1
Toluene	**0.26**	**J**	0.50	0.11	ug/L			04/29/15 03:36	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 03:36	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 03:36	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 03:36	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 03:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 03:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/29/15 03:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/29/15 03:36*	*1*
4-Bromofluorobenzene (Surr)	*86*		*75 - 120*		*04/29/15 03:36*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/29/15 03:36*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 03:36*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW08 (51-55)

Lab Sample ID: 500-94856-3

Date Collected: 04/16/15 08:30

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 04:03	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 04:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 04:03	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:03	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 04:03	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 04:03	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 04:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 04:03	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 04:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 04:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 04:03	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 04:03	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 04:03	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:03	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 04:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 04:03	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 04:03	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:03	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 04:03	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:03	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 04:03	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 04:03	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 04:03	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 04:03	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 04:03	1
Acetone	**14**		5.0	1.3	ug/L			04/29/15 04:03	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 04:03	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 04:03	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 04:03	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 04:03	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 04:03	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 04:03	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 04:03	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 04:03	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 04:03	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 04:03	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 04:03	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 04:03	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 04:03	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 04:03	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 04:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 04:03	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 04:03	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 04:03	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 04:03	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 04:03	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:03	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 04:03	1

Client Sample ID: RI(A1)-GW08 (51-55)

Lab Sample ID: 500-94856-3

Date Collected: 04/16/15 08:30

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 04:03	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 04:03	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 04:03	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 04:03	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 04:03	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:03	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:03	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 04:03	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 04:03	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 04:03	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:03	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 04:03	1
Toluene	**0.42**	**J**	0.50	0.11	ug/L			04/29/15 04:03	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 04:03	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 04:03	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 04:03	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 04:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 04:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*1100*	*T J N*	*ug/L*		*1.27*	*115-07-1*		*04/29/15 04:03*	*1*
Methane, chlorodifluoro-	*430*	*T J N*	*ug/L*		*1.34*	*75-45-6*		*04/29/15 04:03*	*1*
2-Butene, (E)-	*660*	*T J N*	*ug/L*		*1.59*	*624-64-6*		*04/29/15 04:03*	*1*
Cyclopropane, 1,1-dimethyl-	*290*	*T J N*	*ug/L*		*2.51*	*1630-94-0*		*04/29/15 04:03*	*1*
Isopropyl alcohol	*100*		*ug/L*		*3.31*	*67-63-0*		*04/29/15 04:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/29/15 04:03*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/29/15 04:03*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/29/15 04:03*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 04:03*	*1*

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW09 (51-55)
Date Collected: 04/16/15 09:15
Date Received: 04/18/15 09:10

Lab Sample ID: 500-94856-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 04:31	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 04:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 04:31	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:31	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 04:31	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 04:31	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 04:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 04:31	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 04:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 04:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 04:31	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 04:31	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 04:31	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:31	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 04:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 04:31	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 04:31	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:31	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 04:31	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 04:31	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 04:31	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 04:31	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 04:31	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 04:31	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 04:31	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 04:31	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 04:31	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 04:31	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 04:31	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 04:31	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 04:31	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 04:31	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 04:31	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 04:31	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 04:31	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 04:31	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 04:31	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 04:31	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 04:31	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 04:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 04:31	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 04:31	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 04:31	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 04:31	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 04:31	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:31	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 04:31	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW09 (51-55)

Lab Sample ID: 500-94856-4

Date Collected: 04/16/15 09:15

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 04:31	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 04:31	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 04:31	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 04:31	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 04:31	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:31	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:31	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 04:31	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 04:31	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 04:31	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:31	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 04:31	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 04:31	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 04:31	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 04:31	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 04:31	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 04:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/29/15 04:31*	*1*
4-Bromofluorobenzene (Surr)	*86*		*75 - 120*		*04/29/15 04:31*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/29/15 04:31*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 04:31*	*1*

Client Sample ID: RI(A1)-GW09 (71-75)

Lab Sample ID: 500-94856-5

Date Collected: 04/16/15 09:45

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 04:59	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 04:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 04:59	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:59	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 04:59	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 04:59	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 04:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 04:59	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 04:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 04:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 04:59	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 04:59	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 04:59	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 04:59	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 04:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 04:59	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 04:59	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:59	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 04:59	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 04:59	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 04:59	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 04:59	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 04:59	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 04:59	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 04:59	1
Acetone	**9.6**		5.0	1.3	ug/L			04/29/15 04:59	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 04:59	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 04:59	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 04:59	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 04:59	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 04:59	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 04:59	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 04:59	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 04:59	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 04:59	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 04:59	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 04:59	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 04:59	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 04:59	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 04:59	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 04:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 04:59	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 04:59	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 04:59	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 04:59	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 04:59	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:59	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 04:59	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW09 (71-75)

Lab Sample ID: 500-94856-5

Date Collected: 04/16/15 09:45

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 04:59	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 04:59	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 04:59	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 04:59	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 04:59	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:59	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 04:59	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 04:59	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 04:59	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 04:59	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 04:59	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 04:59	1
Toluene	**0.43**	**J**	0.50	0.11	ug/L			04/29/15 04:59	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 04:59	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 04:59	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 04:59	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 04:59	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/29/15 04:59*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*04/29/15 04:59*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/29/15 04:59*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*04/29/15 04:59*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: 042015-DPTGW-SCREEN RINSE 01

Lab Sample ID: 500-94856-6

Date Collected: 04/16/15 10:30
Matrix: Water
Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 05:26	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 05:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 05:26	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 05:26	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 05:26	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 05:26	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 05:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 05:26	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 05:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 05:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 05:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 05:26	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 05:26	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 05:26	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 05:26	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 05:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 05:26	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 05:26	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 05:26	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 05:26	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 05:26	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 05:26	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 05:26	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 05:26	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 05:26	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 05:26	1
Acetone	**6.5**		5.0	1.3	ug/L			04/29/15 05:26	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 05:26	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 05:26	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 05:26	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 05:26	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 05:26	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 05:26	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 05:26	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 05:26	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 05:26	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 05:26	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 05:26	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 05:26	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 05:26	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 05:26	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 05:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 05:26	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 05:26	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 05:26	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 05:26	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 05:26	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 05:26	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 05:26	1

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: 042015-DPTGW-SCREEN RINSE 01
Date Collected: 04/16/15 10:30
Date Received: 04/18/15 09:10

Lab Sample ID: 500-94856-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 05:26	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 05:26	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 05:26	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 05:26	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 05:26	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 05:26	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 05:26	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 05:26	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 05:26	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 05:26	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 05:26	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 05:26	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 05:26	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 05:26	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 05:26	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 05:26	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 05:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*		*04/29/15 05:26*	*1*
4-Bromofluorobenzene (Surr)	*87*		*75 - 120*		*04/29/15 05:26*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*04/29/15 05:26*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/29/15 05:26*	*1*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94856-7

Date Collected: 04/16/15 00:00
Matrix: Water
Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 00:49	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 00:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 00:49	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 00:49	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 00:49	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 00:49	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 00:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 00:49	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 00:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 00:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 00:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 00:49	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 00:49	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 00:49	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 00:49	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 00:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 00:49	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 00:49	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 00:49	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 00:49	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 00:49	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 00:49	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 00:49	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 00:49	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 00:49	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 00:49	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 00:49	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 00:49	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 00:49	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 00:49	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 00:49	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 00:49	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 00:49	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 00:49	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 00:49	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 00:49	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 00:49	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 00:49	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 00:49	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 00:49	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 00:49	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 00:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 00:49	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 00:49	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 00:49	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 00:49	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 00:49	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 00:49	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 00:49	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94856-7

Date Collected: 04/16/15 00:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 00:49	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 00:49	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 00:49	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 00:49	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 00:49	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 00:49	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 00:49	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 00:49	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 00:49	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 00:49	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 00:49	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 00:49	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 00:49	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 00:49	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 00:49	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 00:49	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 00:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 125*		*04/29/15 00:49*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/29/15 00:49*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*04/29/15 00:49*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 00:49*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

GC/MS VOA

Analysis Batch: 285797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94856-1	RI(A1)-GW02 (51-55)	Total/NA	Water	8260B	
500-94856-2	RI(A1)-GW05 (51-55)	Total/NA	Water	8260B	
500-94856-3	RI(A1)-GW08 (51-55)	Total/NA	Water	8260B	
500-94856-4	RI(A1)-GW09 (51-55)	Total/NA	Water	8260B	
500-94856-5	RI(A1)-GW09 (71-75)	Total/NA	Water	8260B	
500-94856-6	042015-DPTGW-SCREEN RINSE 01	Total/NA	Water	8260B	
500-94856-7	Trip Blank	Total/NA	Water	8260B	
LCS 500-285797/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285797/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-94856-1	RI(A1)-GW02 (51-55)	81	85	84	90
500-94856-2	RI(A1)-GW05 (51-55)	81	86	86	89
500-94856-3	RI(A1)-GW08 (51-55)	82	85	87	89
500-94856-4	RI(A1)-GW09 (51-55)	81	86	87	89
500-94856-5	RI(A1)-GW09 (71-75)	80	84	86	91
500-94856-6	042015-DPTGW-SCREEN RINSE 01	87	87	90	88
500-94856-7	Trip Blank	79	85	86	89
LCS 500-285797/4	Lab Control Sample	81	87	88	89
MB 500-285797/6	Method Blank	82	85	87	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-285797/6
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 22:57	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 22:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 22:57	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 22:57	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 22:57	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 22:57	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 22:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 22:57	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 22:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 22:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 22:57	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 22:57	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 22:57	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 22:57	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 22:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 22:57	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 22:57	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 22:57	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 22:57	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 22:57	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 22:57	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 22:57	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 22:57	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 22:57	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 22:57	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 22:57	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 22:57	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 22:57	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 22:57	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 22:57	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 22:57	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 22:57	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 22:57	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 22:57	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 22:57	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 22:57	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 22:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 22:57	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 22:57	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 22:57	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 22:57	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285797/6
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 22:57	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 22:57	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 22:57	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 22:57	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 22:57	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 22:57	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 22:57	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 22:57	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 22:57	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 22:57	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 22:57	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 22:57	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 22:57	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 22:57	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 22:57	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/28/15 22:57*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/28/15 22:57*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/28/15 22:57*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*04/28/15 22:57*	*1*

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	75 - 122
1,1,1-Trichloroethane	50.0	42.8		ug/L		86	72 - 130
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 130
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	75 - 120
1,1-Dichloroethane	50.0	41.2		ug/L		82	75 - 120
1,1-Dichloroethylene	50.0	44.2		ug/L		88	69 - 120
1,1-Dichloropropene	50.0	42.1		ug/L		84	75 - 130
1,2,3-Trichlorobenzene	50.0	46.2		ug/L		92	69 - 131
1,2,3-Trichloropropane	50.0	51.3		ug/L		103	65 - 132
1,2,4-Trichlorobenzene	50.0	46.0		ug/L		92	73 - 130
1,2,4-Trimethylbenzene	50.0	44.0		ug/L		88	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.7		ug/L		99	62 - 130
1,2-Dibromoethane	50.0	49.2		ug/L		98	78 - 122
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	75 - 120
1,2-Dichloroethane	50.0	38.8		ug/L		78	69 - 130
1,2-Dichloropropane	50.0	42.7		ug/L		85	75 - 120
1,3,5-Trimethylbenzene	50.0	45.3		ug/L		91	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane	50.0	42.4		ug/L		85	69 - 120
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	75 - 120
1,3-Dichloropropane	50.0	47.2		ug/L		94	77 - 124
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	75 - 120
2,2-Dichloropropane	50.0	39.5		ug/L		79	65 - 132
2-Chlorotoluene	50.0	44.3		ug/L		89	75 - 120
2-Hexanone	50.0	42.5		ug/L		85	55 - 140
4-Chlorotoluene	50.0	43.0		ug/L		86	75 - 120
4-Isopropyltoluene	50.0	44.6		ug/L		89	75 - 121
Acetone	50.0	36.8		ug/L		74	48 - 149
Benzene	50.0	44.0		ug/L		88	75 - 120
Bromobenzene	50.0	47.2		ug/L		94	75 - 120
Bromodichloromethane	50.0	45.4		ug/L		91	77 - 121
Bromoform	50.0	60.5		ug/L		121	68 - 126
Bromomethane	50.0	37.9		ug/L		76	45 - 169
Carbon disulfide	50.0	43.6		ug/L		87	56 - 130
Carbon tetrachloride	50.0	44.8		ug/L		90	70 - 130
Chlorobenzene	50.0	44.9		ug/L		90	75 - 120
Chlorobromomethane	50.0	47.8		ug/L		96	76 - 120
Vinyl acetate	50.0	41.1		ug/L		82	40 - 137
Chloroethane	50.0	36.5		ug/L		73	58 - 147
Chloroform	50.0	42.3		ug/L		85	76 - 120
Chloromethane	50.0	53.4		ug/L		107	63 - 133
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	75 - 120
cis-1,3-Dichloropropene	50.0	45.0		ug/L		90	78 - 130
Dibromochloromethane	50.0	52.9		ug/L		106	71 - 126
Dibromomethane	50.0	43.6		ug/L		87	75 - 120
Dichlorodifluoromethane	50.0	62.0		ug/L		124	41 - 146
Ethylbenzene	50.0	44.9		ug/L		90	75 - 120
Hexachlorobutadiene	50.0	50.0		ug/L		100	71 - 131
Isopropylbenzene	50.0	45.8		ug/L		92	75 - 121
m&p-Xylene	50.0	43.3		ug/L		87	75 - 120
Methyl Ethyl Ketone	50.0	44.7		ug/L		89	53 - 142
methyl isobutyl ketone	50.0	42.4		ug/L		85	58 - 135
Methyl tert-butyl ether	50.0	46.4		ug/L		93	75 - 130
Methylene Chloride	50.0	43.6		ug/L		87	73 - 130
Naphthalene	50.0	46.3		ug/L		93	69 - 135
n-Butylbenzene	50.0	42.7		ug/L		85	75 - 121
N-Propylbenzene	50.0	44.1		ug/L		88	75 - 120
o-Xylene	50.0	43.3		ug/L		87	75 - 120
sec-Butylbenzene	50.0	44.8		ug/L		90	75 - 120
Styrene	50.0	46.4		ug/L		93	75 - 120
tert-Butylbenzene	50.0	45.2		ug/L		90	75 - 123
Perchloroethylene	50.0	45.7		ug/L		91	75 - 120
Toluene	50.0	46.2		ug/L		92	75 - 120
trans-1,2-Dichloroethene	50.0	44.2		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	74 - 130
Trichloroethylene	50.0	41.0		ug/L		82	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			50.0	42.4		ug/L		85	71 - 130		
Vinyl chloride			50.0	49.5		ug/L		99	72 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*
4-Bromofluorobenzene (Surr)	*87*		*75 - 120*
Dibromofluoromethane	*88*		*75 - 120*
Toluene-d8 (Surr)	*89*		*75 - 120*

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: RI(A1)-GW02 (51-55) — Lab Sample ID: 500-94856-1

Date Collected: 04/16/15 09:00 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 03:08	PMF	TAL CHI

Client Sample ID: RI(A1)-GW05 (51-55) — Lab Sample ID: 500-94856-2

Date Collected: 04/16/15 10:15 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 03:36	PMF	TAL CHI

Client Sample ID: RI(A1)-GW08 (51-55) — Lab Sample ID: 500-94856-3

Date Collected: 04/16/15 08:30 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 04:03	PMF	TAL CHI

Client Sample ID: RI(A1)-GW09 (51-55) — Lab Sample ID: 500-94856-4

Date Collected: 04/16/15 09:15 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 04:31	PMF	TAL CHI

Client Sample ID: RI(A1)-GW09 (71-75) — Lab Sample ID: 500-94856-5

Date Collected: 04/16/15 09:45 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 04:59	PMF	TAL CHI

Client Sample ID: 042015-DPTGW-SCREEN RINSE 01 — Lab Sample ID: 500-94856-6

Date Collected: 04/16/15 10:30 — **Matrix: Water**
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 05:26	PMF	TAL CHI

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94856-7

Date Collected: 04/16/15 00:00

Matrix: Water

Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 00:49	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94856-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	291	12-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichlorotrifluoroethane
8260B		Water	1,1-Dichloropropene

500-94856

AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

CHAIN OF CUSTODY

Page (1) of (1)

Phone: (224) 667-1254

Sample Collector(s): Tom NAUMANN

Requested By: GRANT WATKINS, ERM

Division: N/A

Dept: N/A

Site: FORMER ~~LAURINBURG~~ ABBOTT LABS, LAURINBURG, NC

500-94856 COC

Report Sent to: GRANT.WATKINS@ERM.com

Field Project Name / Number

TURNAROUND TIME REQUESTED: (Normal) RUSH*

* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? (Yes) No

ANALYSIS & METHOD REQUESTED

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G	P	TYPE[b]	PRESERVATIVE[c] TYPE	VOCs (8260B)	10 TICs (8260B)			Sample Temperature[d] 1.3°C A[e]	R[e]	CONDITION CODE[f]
1	RI(A1)-GW02(51-55)	4/16/15	0900	G		✓	3	3		A	HCl	✓				✓		
2	RI(A1)-GW05(51-55)	4/16/15	1015	↓		↓	3	↓		↓	↓	✓	✓			✓		
3	RI(A1)-GW08(51-55)	4/16/15	0830	↓		↓	3	↓		↓	↓	✓	✓			✓		
4	RI(A1)-GW09(51-55)	4/16/15	0915	↓		↓	3	↓		↓	↓	✓				✓		
5	RI(A1)-GW09(71-75)	4/16/15	0945	↓		↓	3	↓		↓	↓	✓				✓		
6	042015-DPTGW-SCREEN RINSE01	4/16/15	1030	DI WATER		↓	3	↓		↓	↓	✓				✓		
7	TRIP BLANK	4/16/15					2	2		↓	↓	✓				✓		
		/ /																
		/ /																
		/ /																
		/ /																

GLOSSARY:

[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By: Tom NAUMANN	Date: 4/16/15 Time: 1715	2. Relinquished By: [signature]	Date: [signature] Time:	3. Relinquished By: [signature]	Date: 4/17/15 Time: 4:45 PM	3.1
Received By: FED EX	Date: Time:	Received By: [signature]	Date: 4/17/15 Time: 1130PM	Received By: [signature]	Date: 4/18/15 Time: 0970	

PLEASE FILL OUT CHAIN OF CUSTODY RECORD COMPLETELY!

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94856-1

Login Number: 94856

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	3.1
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-94857-1
Client Project/Site: Laurinburg, NC VOC Testing

For:
AbbVie US LLC
200 Abbott Park Road
Dept V5IH, Bldg AP 52N
North Chicago, Illinois 60064-6217

Attn: Pam Kramer

Authorized for release by:
4/30/2015 12:25:40 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-94857-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-94857-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2015 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range:
10W-DRUM-01 (500-94857-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-01 — Lab Sample ID: 500-94857-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		2.0	0.40	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	1.7	J	2.0	0.38	ug/L	2		8260B	Total/NA
1,1-Dichloroethylene	14		2.0	0.62	ug/L	2		8260B	Total/NA
1,2-Dichloroethane	1.6	J	2.0	0.56	ug/L	2		8260B	Total/NA
1,1,2-Trichlorotrifluoroethane	540		100	4.4	ug/L	20		8260B	Total/NA
2-Hexanone	14		10	1.1	ug/L	2		8260B	Total/NA
Acetone	620		100	26	ug/L	20		8260B	Total/NA
Chloroform	2.3		2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	960		20	2.4	ug/L	20		8260B	Total/NA
Methyl Ethyl Ketone	770		100	29	ug/L	20		8260B	Total/NA
Toluene	33		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethylene	15		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	1.6		1.0	0.20	ug/L	2		8260B	Total/NA

Client Sample ID: 10W-DRUM-02 — Lab Sample ID: 500-94857-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	14		5.0	0.22	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.12	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-94857-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94857-1	10W-DRUM-01	Water	04/16/15 11:45	04/18/15 09:10
500-94857-2	10W-DRUM-02	Water	04/16/15 12:00	04/18/15 09:10
500-94857-3	Trip Blank	Water	04/16/15 00:00	04/18/15 09:10

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-01

Lab Sample ID: 500-94857-1

Date Collected: 04/16/15 11:45

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L			04/29/15 05:53	2
1,1,1-Trichloroethane	**12**		2.0	0.40	ug/L			04/29/15 05:53	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.46	ug/L			04/29/15 05:53	2
1,1,2-Trichloroethane	ND		2.0	0.56	ug/L			04/29/15 05:53	2
1,1-Dichloroethane	**1.7**	**J**	2.0	0.38	ug/L			04/29/15 05:53	2
1,1-Dichloroethylene	**14**		2.0	0.62	ug/L			04/29/15 05:53	2
1,1-Dichloropropene	ND		2.0	0.68	ug/L			04/29/15 05:53	2
1,2,3-Trichlorobenzene	ND		2.0	0.48	ug/L			04/29/15 05:53	2
1,2,3-Trichloropropane	ND		2.0	0.90	ug/L			04/29/15 05:53	2
1,2,4-Trichlorobenzene	ND		2.0	0.62	ug/L			04/29/15 05:53	2
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/L			04/29/15 05:53	2
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/L			04/29/15 05:53	2
1,2-Dibromoethane	ND		2.0	0.72	ug/L			04/29/15 05:53	2
1,2-Dichlorobenzene	ND		2.0	0.54	ug/L			04/29/15 05:53	2
1,2-Dichloroethane	**1.6**	**J**	2.0	0.56	ug/L			04/29/15 05:53	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			04/29/15 05:53	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			04/29/15 05:53	2
1,1,2-Trichlorotrifluoroethane	**540**		100	4.4	ug/L			04/29/15 16:51	20
1,3-Dichlorobenzene	ND		2.0	0.30	ug/L			04/29/15 05:53	2
1,3-Dichloropropane	ND		2.0	0.26	ug/L			04/29/15 05:53	2
1,4-Dichlorobenzene	ND		2.0	0.30	ug/L			04/29/15 05:53	2
2,2-Dichloropropane	ND		2.0	0.64	ug/L			04/29/15 05:53	2
2-Chlorotoluene	ND		2.0	0.42	ug/L			04/29/15 05:53	2
2-Hexanone	**14**		10	1.1	ug/L			04/29/15 05:53	2
4-Chlorotoluene	ND		2.0	0.40	ug/L			04/29/15 05:53	2
4-Isopropyltoluene	ND		4.0	0.34	ug/L			04/29/15 05:53	2
Acetone	**620**		100	26	ug/L			04/29/15 16:51	20
Benzene	ND		1.0	0.15	ug/L			04/29/15 05:53	2
Bromobenzene	ND		2.0	0.50	ug/L			04/29/15 05:53	2
Bromodichloromethane	ND		2.0	0.34	ug/L			04/29/15 05:53	2
Bromoform	ND		2.0	0.56	ug/L			04/29/15 05:53	2
Bromomethane	ND		10	0.62	ug/L			04/29/15 05:53	2
Carbon disulfide	ND		10	0.86	ug/L			04/29/15 05:53	2
Carbon tetrachloride	ND		2.0	0.52	ug/L			04/29/15 05:53	2
Chlorobenzene	ND		2.0	0.28	ug/L			04/29/15 05:53	2
Chlorobromomethane	ND		2.0	0.80	ug/L			04/29/15 05:53	2
Vinyl acetate	ND		4.0	0.66	ug/L			04/29/15 05:53	2
Chloroethane	ND		2.0	0.68	ug/L			04/29/15 05:53	2
Chloroform	**2.3**		2.0	0.40	ug/L			04/29/15 05:53	2
Chloromethane	ND		2.0	0.36	ug/L			04/29/15 05:53	2
cis-1,2-Dichloroethene	**960**		20	2.4	ug/L			04/29/15 16:51	20
cis-1,3-Dichloropropene	ND		2.0	0.36	ug/L			04/29/15 05:53	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/29/15 05:53	2
Dibromomethane	ND		2.0	0.66	ug/L			04/29/15 05:53	2
Dichlorodifluoromethane	ND		10	0.40	ug/L			04/29/15 05:53	2
Ethylbenzene	ND		1.0	0.26	ug/L			04/29/15 05:53	2
Hexachlorobutadiene	ND		2.0	0.52	ug/L			04/29/15 05:53	2
Isopropylbenzene	ND		2.0	0.28	ug/L			04/29/15 05:53	2
m&p-Xylene	ND		2.0	0.52	ug/L			04/29/15 05:53	2

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-01

Lab Sample ID: 500-94857-1

Date Collected: 04/16/15 11:45

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	**770**		100	29	ug/L			04/29/15 16:51	20
methyl isobutyl ketone	ND		10	0.66	ug/L			04/29/15 05:53	2
Methyl tert-butyl ether	ND		2.0	0.48	ug/L			04/29/15 05:53	2
Methylene Chloride	ND		10	1.4	ug/L			04/29/15 05:53	2
Naphthalene	ND		2.0	0.32	ug/L			04/29/15 05:53	2
n-Butylbenzene	ND		2.0	0.26	ug/L			04/29/15 05:53	2
N-Propylbenzene	ND		2.0	0.26	ug/L			04/29/15 05:53	2
o-Xylene	ND		1.0	0.14	ug/L			04/29/15 05:53	2
sec-Butylbenzene	ND		2.0	0.30	ug/L			04/29/15 05:53	2
Styrene	ND		2.0	0.20	ug/L			04/29/15 05:53	2
tert-Butylbenzene	ND		2.0	0.28	ug/L			04/29/15 05:53	2
Perchloroethylene	ND		2.0	0.34	ug/L			04/29/15 05:53	2
Toluene	**33**		1.0	0.22	ug/L			04/29/15 05:53	2
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L			04/29/15 05:53	2
trans-1,3-Dichloropropene	ND		2.0	0.42	ug/L			04/29/15 05:53	2
Trichloroethylene	**15**		1.0	0.38	ug/L			04/29/15 05:53	2
Trichlorofluoromethane	ND		2.0	0.38	ug/L			04/29/15 05:53	2
Vinyl chloride	**1.6**		1.0	0.20	ug/L			04/29/15 05:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*		*04/29/15 05:53*	*2*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/29/15 16:51*	*20*
4-Bromofluorobenzene (Surr)	*86*		*75 - 120*		*04/29/15 05:53*	*2*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*04/29/15 16:51*	*20*
Dibromofluoromethane	*88*		*75 - 120*		*04/29/15 05:53*	*2*
Dibromofluoromethane	*85*		*75 - 120*		*04/29/15 16:51*	*20*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/29/15 05:53*	*2*
Toluene-d8 (Surr)	*90*		*75 - 120*		*04/29/15 16:51*	*20*

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-02

Lab Sample ID: 500-94857-2

Date Collected: 04/16/15 12:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 06:19	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 06:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 06:19	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 06:19	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 06:19	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 06:19	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 06:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 06:19	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 06:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 06:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 06:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 06:19	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 06:19	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 06:19	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 06:19	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 06:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 06:19	1
1,1,2-Trichlorotrifluoroethane	**14**		5.0	0.22	ug/L			04/29/15 06:19	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 06:19	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 06:19	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 06:19	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 06:19	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 06:19	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 06:19	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 06:19	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 06:19	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 06:19	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 06:19	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 06:19	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 06:19	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 06:19	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 06:19	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 06:19	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 06:19	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 06:19	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 06:19	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 06:19	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 06:19	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 06:19	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 06:19	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.12	ug/L			04/29/15 06:19	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 06:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 06:19	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 06:19	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 06:19	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 06:19	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 06:19	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 06:19	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 06:19	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-02

Lab Sample ID: 500-94857-2

Date Collected: 04/16/15 12:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 06:19	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 06:19	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 06:19	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 06:19	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 06:19	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 06:19	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 06:19	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 06:19	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 06:19	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 06:19	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 06:19	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 06:19	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 06:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 06:19	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 06:19	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 06:19	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 06:19	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/29/15 06:19*	*1*
4-Bromofluorobenzene (Surr)	*88*		*75 - 120*		*04/29/15 06:19*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/29/15 06:19*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 06:19*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 500-94857-3

Date Collected: 04/16/15 00:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 23:53	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 23:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 23:53	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 23:53	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 23:53	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 23:53	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 23:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 23:53	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 23:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 23:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 23:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 23:53	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 23:53	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 23:53	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 23:53	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 23:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 23:53	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 23:53	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 23:53	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 23:53	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 23:53	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 23:53	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 23:53	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 23:53	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 23:53	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 23:53	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 23:53	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 23:53	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 23:53	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 23:53	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 23:53	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 23:53	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 23:53	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 23:53	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 23:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 23:53	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 23:53	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 23:53	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 23:53	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 23:53	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 23:53	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 23:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 23:53	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 23:53	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 23:53	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 23:53	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 23:53	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 23:53	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 23:53	1

Client Sample Results

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-94857-3

Date Collected: 04/16/15 00:00

Matrix: Water

Date Received: 04/18/15 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 23:53	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 23:53	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 23:53	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 23:53	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 23:53	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 23:53	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 23:53	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 23:53	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 23:53	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 23:53	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 23:53	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 23:53	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 23:53	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 23:53	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 23:53	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 23:53	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 23:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*		*04/28/15 23:53*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*04/28/15 23:53*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*04/28/15 23:53*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*04/28/15 23:53*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

GC/MS VOA

Analysis Batch: 285797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94857-1	10W-DRUM-01	Total/NA	Water	8260B	
500-94857-2	10W-DRUM-02	Total/NA	Water	8260B	
500-94857-3	Trip Blank	Total/NA	Water	8260B	
LCS 500-285797/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285797/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94857-1	10W-DRUM-01	Total/NA	Water	8260B	
LCS 500-285920/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-285920/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-94857-1	10W-DRUM-01	80	86	88	90
500-94857-1	10W-DRUM-01	81	83	85	90
500-94857-2	10W-DRUM-02	81	88	87	89
500-94857-3	Trip Blank	81	84	88	91
LCS 500-285797/4	Lab Control Sample	81	87	88	89
LCS 500-285920/4	Lab Control Sample	80	84	85	90
MB 500-285797/6	Method Blank	82	85	87	92
MB 500-285920/6	Method Blank	78	84	85	89

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-285797/6
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/28/15 22:57	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/28/15 22:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/28/15 22:57	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/28/15 22:57	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/28/15 22:57	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/28/15 22:57	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/28/15 22:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/28/15 22:57	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/28/15 22:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/28/15 22:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/28/15 22:57	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/28/15 22:57	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/28/15 22:57	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/28/15 22:57	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/28/15 22:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/28/15 22:57	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/28/15 22:57	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/28/15 22:57	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/28/15 22:57	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/28/15 22:57	1
2-Hexanone	ND		5.0	0.56	ug/L			04/28/15 22:57	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/28/15 22:57	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/28/15 22:57	1
Acetone	ND		5.0	1.3	ug/L			04/28/15 22:57	1
Benzene	ND		0.50	0.074	ug/L			04/28/15 22:57	1
Bromobenzene	ND		1.0	0.25	ug/L			04/28/15 22:57	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/28/15 22:57	1
Bromoform	ND		1.0	0.28	ug/L			04/28/15 22:57	1
Bromomethane	ND		5.0	0.31	ug/L			04/28/15 22:57	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/28/15 22:57	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/28/15 22:57	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/28/15 22:57	1
Chloroethane	ND		1.0	0.34	ug/L			04/28/15 22:57	1
Chloroform	ND		1.0	0.20	ug/L			04/28/15 22:57	1
Chloromethane	ND		1.0	0.18	ug/L			04/28/15 22:57	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/28/15 22:57	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/28/15 22:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/15 22:57	1
Dibromomethane	ND		1.0	0.33	ug/L			04/28/15 22:57	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/28/15 22:57	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/28/15 22:57	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285797/6
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.26	ug/L			04/28/15 22:57	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/28/15 22:57	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/28/15 22:57	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/28/15 22:57	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/28/15 22:57	1
Naphthalene	ND		1.0	0.16	ug/L			04/28/15 22:57	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/28/15 22:57	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/28/15 22:57	1
o-Xylene	ND		0.50	0.068	ug/L			04/28/15 22:57	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/28/15 22:57	1
Styrene	ND		1.0	0.10	ug/L			04/28/15 22:57	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/28/15 22:57	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/28/15 22:57	1
Toluene	ND		0.50	0.11	ug/L			04/28/15 22:57	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/28/15 22:57	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/28/15 22:57	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/28/15 22:57	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/28/15 22:57	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/28/15 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 125*		*04/28/15 22:57*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*04/28/15 22:57*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*04/28/15 22:57*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*04/28/15 22:57*	*1*

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	75 - 122
1,1,1-Trichloroethane	50.0	42.8		ug/L		86	72 - 130
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 130
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	75 - 120
1,1-Dichloroethane	50.0	41.2		ug/L		82	75 - 120
1,1-Dichloroethylene	50.0	44.2		ug/L		88	69 - 120
1,1-Dichloropropene	50.0	42.1		ug/L		84	75 - 130
1,2,3-Trichlorobenzene	50.0	46.2		ug/L		92	69 - 131
1,2,3-Trichloropropane	50.0	51.3		ug/L		103	65 - 132
1,2,4-Trichlorobenzene	50.0	46.0		ug/L		92	73 - 130
1,2,4-Trimethylbenzene	50.0	44.0		ug/L		88	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.7		ug/L		99	62 - 130
1,2-Dibromoethane	50.0	49.2		ug/L		98	78 - 122
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	75 - 120
1,2-Dichloroethane	50.0	38.8		ug/L		78	69 - 130
1,2-Dichloropropane	50.0	42.7		ug/L		85	75 - 120
1,3,5-Trimethylbenzene	50.0	45.3		ug/L		91	75 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane	50.0	42.4		ug/L		85	69 - 120
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	75 - 120
1,3-Dichloropropane	50.0	47.2		ug/L		94	77 - 124
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	75 - 120
2,2-Dichloropropane	50.0	39.5		ug/L		79	65 - 132
2-Chlorotoluene	50.0	44.3		ug/L		89	75 - 120
2-Hexanone	50.0	42.5		ug/L		85	55 - 140
4-Chlorotoluene	50.0	43.0		ug/L		86	75 - 120
4-Isopropyltoluene	50.0	44.6		ug/L		89	75 - 121
Acetone	50.0	36.8		ug/L		74	48 - 149
Benzene	50.0	44.0		ug/L		88	75 - 120
Bromobenzene	50.0	47.2		ug/L		94	75 - 120
Bromodichloromethane	50.0	45.4		ug/L		91	77 - 121
Bromoform	50.0	60.5		ug/L		121	68 - 126
Bromomethane	50.0	37.9		ug/L		76	45 - 169
Carbon disulfide	50.0	43.6		ug/L		87	56 - 130
Carbon tetrachloride	50.0	44.8		ug/L		90	70 - 130
Chlorobenzene	50.0	44.9		ug/L		90	75 - 120
Chlorobromomethane	50.0	47.8		ug/L		96	76 - 120
Vinyl acetate	50.0	41.1		ug/L		82	40 - 137
Chloroethane	50.0	36.5		ug/L		73	58 - 147
Chloroform	50.0	42.3		ug/L		85	76 - 120
Chloromethane	50.0	53.4		ug/L		107	63 - 133
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	75 - 120
cis-1,3-Dichloropropene	50.0	45.0		ug/L		90	78 - 130
Dibromochloromethane	50.0	52.9		ug/L		106	71 - 126
Dibromomethane	50.0	43.6		ug/L		87	75 - 120
Dichlorodifluoromethane	50.0	62.0		ug/L		124	41 - 146
Ethylbenzene	50.0	44.9		ug/L		90	75 - 120
Hexachlorobutadiene	50.0	50.0		ug/L		100	71 - 131
Isopropylbenzene	50.0	45.8		ug/L		92	75 - 121
m&p-Xylene	50.0	43.3		ug/L		87	75 - 120
Methyl Ethyl Ketone	50.0	44.7		ug/L		89	53 - 142
methyl isobutyl ketone	50.0	42.4		ug/L		85	58 - 135
Methyl tert-butyl ether	50.0	46.4		ug/L		93	75 - 130
Methylene Chloride	50.0	43.6		ug/L		87	73 - 130
Naphthalene	50.0	46.3		ug/L		93	69 - 135
n-Butylbenzene	50.0	42.7		ug/L		85	75 - 121
N-Propylbenzene	50.0	44.1		ug/L		88	75 - 120
o-Xylene	50.0	43.3		ug/L		87	75 - 120
sec-Butylbenzene	50.0	44.8		ug/L		90	75 - 120
Styrene	50.0	46.4		ug/L		93	75 - 120
tert-Butylbenzene	50.0	45.2		ug/L		90	75 - 123
Perchloroethylene	50.0	45.7		ug/L		91	75 - 120
Toluene	50.0	46.2		ug/L		92	75 - 120
trans-1,2-Dichloroethene	50.0	44.2		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	74 - 130
Trichloroethylene	50.0	41.0		ug/L		82	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285797/4
Matrix: Water
Analysis Batch: 285797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.4		ug/L		85	71 - 130
Vinyl chloride	50.0	49.5		ug/L		99	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 125*
4-Bromofluorobenzene (Surr)	*87*		*75 - 120*
Dibromofluoromethane	*88*		*75 - 120*
Toluene-d8 (Surr)	*89*		*75 - 120*

Lab Sample ID: MB 500-285920/6
Matrix: Water
Analysis Batch: 285920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/29/15 11:43	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			04/29/15 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.23	ug/L			04/29/15 11:43	1
1,1,2-Trichloroethane	ND		1.0	0.28	ug/L			04/29/15 11:43	1
1,1-Dichloroethane	ND		1.0	0.19	ug/L			04/29/15 11:43	1
1,1-Dichloroethylene	ND		1.0	0.31	ug/L			04/29/15 11:43	1
1,1-Dichloropropene	ND		1.0	0.34	ug/L			04/29/15 11:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.24	ug/L			04/29/15 11:43	1
1,2,3-Trichloropropane	ND		1.0	0.45	ug/L			04/29/15 11:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.31	ug/L			04/29/15 11:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.14	ug/L			04/29/15 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.87	ug/L			04/29/15 11:43	1
1,2-Dibromoethane	ND		1.0	0.36	ug/L			04/29/15 11:43	1
1,2-Dichlorobenzene	ND		1.0	0.27	ug/L			04/29/15 11:43	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/29/15 11:43	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			04/29/15 11:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			04/29/15 11:43	1
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.22	ug/L			04/29/15 11:43	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 11:43	1
1,3-Dichloropropane	ND		1.0	0.13	ug/L			04/29/15 11:43	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L			04/29/15 11:43	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/29/15 11:43	1
2-Chlorotoluene	ND		1.0	0.21	ug/L			04/29/15 11:43	1
2-Hexanone	ND		5.0	0.56	ug/L			04/29/15 11:43	1
4-Chlorotoluene	ND		1.0	0.20	ug/L			04/29/15 11:43	1
4-Isopropyltoluene	ND		2.0	0.17	ug/L			04/29/15 11:43	1
Acetone	ND		5.0	1.3	ug/L			04/29/15 11:43	1
Benzene	ND		0.50	0.074	ug/L			04/29/15 11:43	1
Bromobenzene	ND		1.0	0.25	ug/L			04/29/15 11:43	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/29/15 11:43	1
Bromoform	ND		1.0	0.28	ug/L			04/29/15 11:43	1
Bromomethane	ND		5.0	0.31	ug/L			04/29/15 11:43	1
Carbon disulfide	ND		5.0	0.43	ug/L			04/29/15 11:43	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/29/15 11:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-285920/6
Matrix: Water
Analysis Batch: 285920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.14	ug/L			04/29/15 11:43	1
Chlorobromomethane	ND		1.0	0.40	ug/L			04/29/15 11:43	1
Vinyl acetate	ND		2.0	0.33	ug/L			04/29/15 11:43	1
Chloroethane	ND		1.0	0.34	ug/L			04/29/15 11:43	1
Chloroform	ND		1.0	0.20	ug/L			04/29/15 11:43	1
Chloromethane	ND		1.0	0.18	ug/L			04/29/15 11:43	1
cis-1,2-Dichloroethene	ND		1.0	0.12	ug/L			04/29/15 11:43	1
cis-1,3-Dichloropropene	ND		1.0	0.18	ug/L			04/29/15 11:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/29/15 11:43	1
Dibromomethane	ND		1.0	0.33	ug/L			04/29/15 11:43	1
Dichlorodifluoromethane	ND		5.0	0.20	ug/L			04/29/15 11:43	1
Ethylbenzene	ND		0.50	0.13	ug/L			04/29/15 11:43	1
Hexachlorobutadiene	ND		1.0	0.26	ug/L			04/29/15 11:43	1
Isopropylbenzene	ND		1.0	0.14	ug/L			04/29/15 11:43	1
m&p-Xylene	ND		1.0	0.26	ug/L			04/29/15 11:43	1
Methyl Ethyl Ketone	ND		5.0	1.5	ug/L			04/29/15 11:43	1
methyl isobutyl ketone	ND		5.0	0.33	ug/L			04/29/15 11:43	1
Methyl tert-butyl ether	ND		1.0	0.24	ug/L			04/29/15 11:43	1
Methylene Chloride	ND		5.0	0.68	ug/L			04/29/15 11:43	1
Naphthalene	ND		1.0	0.16	ug/L			04/29/15 11:43	1
n-Butylbenzene	ND		1.0	0.13	ug/L			04/29/15 11:43	1
N-Propylbenzene	ND		1.0	0.13	ug/L			04/29/15 11:43	1
o-Xylene	ND		0.50	0.068	ug/L			04/29/15 11:43	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			04/29/15 11:43	1
Styrene	ND		1.0	0.10	ug/L			04/29/15 11:43	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/29/15 11:43	1
Perchloroethylene	ND		1.0	0.17	ug/L			04/29/15 11:43	1
Toluene	ND		0.50	0.11	ug/L			04/29/15 11:43	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/29/15 11:43	1
trans-1,3-Dichloropropene	ND		1.0	0.21	ug/L			04/29/15 11:43	1
Trichloroethylene	ND		0.50	0.19	ug/L			04/29/15 11:43	1
Trichlorofluoromethane	ND		1.0	0.19	ug/L			04/29/15 11:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/29/15 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*75 - 125*		*04/29/15 11:43*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*04/29/15 11:43*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*04/29/15 11:43*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*04/29/15 11:43*	*1*

Lab Sample ID: LCS 500-285920/4
Matrix: Water
Analysis Batch: 285920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	45.4		ug/L		91	75 - 122
1,1,1-Trichloroethane	50.0	40.2		ug/L		80	72 - 130
1,1,2,2-Tetrachloroethane	50.0	43.8		ug/L		88	72 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285920/4
Matrix: Water
Analysis Batch: 285920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	43.9		ug/L		88	75 - 120
1,1-Dichloroethane	50.0	38.4		ug/L		77	75 - 120
1,1-Dichloroethylene	50.0	41.4		ug/L		83	69 - 120
1,1-Dichloropropene	50.0	41.0		ug/L		82	75 - 130
1,2,3-Trichlorobenzene	50.0	44.5		ug/L		89	69 - 131
1,2,3-Trichloropropane	50.0	38.5		ug/L		77	65 - 132
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	73 - 130
1,2,4-Trimethylbenzene	50.0	41.4		ug/L		83	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	43.1		ug/L		86	62 - 130
1,2-Dibromoethane	50.0	43.9		ug/L		88	78 - 122
1,2-Dichlorobenzene	50.0	43.0		ug/L		86	75 - 120
1,2-Dichloroethane	50.0	36.4		ug/L		73	69 - 130
1,2-Dichloropropane	50.0	41.2		ug/L		82	75 - 120
1,3,5-Trimethylbenzene	50.0	41.8		ug/L		84	75 - 121
1,1,2-Trichlorotrifluoroethane	50.0	40.2		ug/L		80	69 - 120
1,3-Dichlorobenzene	50.0	41.9		ug/L		84	75 - 120
1,3-Dichloropropane	50.0	44.0		ug/L		88	77 - 124
1,4-Dichlorobenzene	50.0	41.6		ug/L		83	75 - 120
2,2-Dichloropropane	50.0	38.9		ug/L		78	65 - 132
2-Chlorotoluene	50.0	40.2		ug/L		80	75 - 120
2-Hexanone	50.0	40.7		ug/L		81	55 - 140
4-Chlorotoluene	50.0	40.0		ug/L		80	75 - 120
4-Isopropyltoluene	50.0	43.1		ug/L		86	75 - 121
Acetone	50.0	34.6		ug/L		69	48 - 149
Benzene	50.0	41.7		ug/L		83	75 - 120
Bromobenzene	50.0	42.1		ug/L		84	75 - 120
Bromodichloromethane	50.0	42.6		ug/L		85	77 - 121
Bromoform	50.0	54.9		ug/L		110	68 - 126
Bromomethane	50.0	38.1		ug/L		76	45 - 169
Carbon disulfide	50.0	40.4		ug/L		81	56 - 130
Carbon tetrachloride	50.0	43.5		ug/L		87	70 - 130
Chlorobenzene	50.0	42.3		ug/L		85	75 - 120
Chlorobromomethane	50.0	43.4		ug/L		87	76 - 120
Vinyl acetate	50.0	38.9		ug/L		78	40 - 137
Chloroethane	50.0	38.5		ug/L		77	58 - 147
Chloroform	50.0	39.6		ug/L		79	76 - 120
Chloromethane	50.0	50.4		ug/L		101	63 - 133
cis-1,2-Dichloroethene	50.0	42.1		ug/L		84	75 - 120
cis-1,3-Dichloropropene	50.0	42.4		ug/L		85	78 - 130
Dibromochloromethane	50.0	48.5		ug/L		97	71 - 126
Dibromomethane	50.0	40.5		ug/L		81	75 - 120
Dichlorodifluoromethane	50.0	52.9		ug/L		106	41 - 146
Ethylbenzene	50.0	43.3		ug/L		87	75 - 120
Hexachlorobutadiene	50.0	51.2		ug/L		102	71 - 131
Isopropylbenzene	50.0	41.8		ug/L		84	75 - 121
m&p-Xylene	50.0	41.5		ug/L		83	75 - 120
Methyl Ethyl Ketone	50.0	37.0		ug/L		74	53 - 142
methyl isobutyl ketone	50.0	39.7		ug/L		79	58 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-285920/4
Matrix: Water
Analysis Batch: 285920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	42.9		ug/L		86	75 - 130
Methylene Chloride	50.0	41.1		ug/L		82	73 - 130
Naphthalene	50.0	42.0		ug/L		84	69 - 135
n-Butylbenzene	50.0	42.2		ug/L		84	75 - 121
N-Propylbenzene	50.0	41.6		ug/L		83	75 - 120
o-Xylene	50.0	40.7		ug/L		81	75 - 120
sec-Butylbenzene	50.0	41.8		ug/L		84	75 - 120
Styrene	50.0	44.0		ug/L		88	75 - 120
tert-Butylbenzene	50.0	41.4		ug/L		83	75 - 123
Perchloroethylene	50.0	44.8		ug/L		90	75 - 120
Toluene	50.0	43.1		ug/L		86	75 - 120
trans-1,2-Dichloroethene	50.0	41.5		ug/L		83	77 - 120
trans-1,3-Dichloropropene	50.0	42.5		ug/L		85	74 - 130
Trichloroethylene	50.0	39.2		ug/L		78	75 - 120
Trichlorofluoromethane	50.0	42.5		ug/L		85	71 - 130
Vinyl chloride	50.0	46.9		ug/L		94	72 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 125*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*
Dibromofluoromethane	*85*		*75 - 120*
Toluene-d8 (Surr)	*90*		*75 - 120*

Lab Chronicle

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Client Sample ID: 10W-DRUM-01

Lab Sample ID: 500-94857-1
Matrix: Water
Date Collected: 04/16/15 11:45
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	285797	04/29/15 05:53	PMF	TAL CHI
Total/NA	Analysis	8260B		20	285920	04/29/15 16:51	PMF	TAL CHI

Client Sample ID: 10W-DRUM-02

Lab Sample ID: 500-94857-2
Matrix: Water
Date Collected: 04/16/15 12:00
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/29/15 06:19	PMF	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-94857-3
Matrix: Water
Date Collected: 04/16/15 00:00
Date Received: 04/18/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	285797	04/28/15 23:53	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: AbbVie US LLC
Project/Site: Laurinburg, NC VOC Testing

TestAmerica Job ID: 500-94857-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	291	12-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichlorotrifluoroethane
8260B		Water	1,1-Dichloropropene

500-94857

AbbVie Environmental,Health and Safety Laboratory
AP52N, Abbott Park, IL

Page (1) of (1)

CHAIN OF CUSTODY

Phone: (224) 667-1254

Sample Collector(s): TOM NAUMANN, ANDY NEAL
Requested By: GRANT WATKINS, ERM
Division: N/A
Dept: N/A
Site: FORMER ABBOTT LABS, LAURINBURG, NC
Report Sent to: GRANT.WATKINS@ERM.COM
Field Project Name / Number

500-94857 COC

TURNAROUND TIME REQUESTED: (Normal) RUSH*
* If RUSH, Date Needed: / /

Are any of the samples for compliance monitoring purposes, or being reported to a regulatory agency? (Yes) No

ANALYSIS & METHOD REQUESTED: VOCs (8260B)

Sample Temperature[d]: 1.3C

	SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	MATRIX[a]	COMP	GRAB	CONTAINERS No.	G	P	TYPE[b]	PRESERVATIVE[c] TYPE	VOCs (8260B)				A[e]	R[e]	CONDITION CODE[f]
1	10W-DRUM-01	4/16/15	1145	G		✓	3	3		A	HCl	✓				✓		
2	10W-DRUM-02	4/16/15	1200	G		✓	3	3		A	HCl	✓				✓		
3	TRIP BLANK	/ /					2	2		A	HCl	✓				✓		
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GLOSSARY:
[a]**MATRIX** = WasteWater (W), InProcess (I), GroundWater (G), Other (O)
[b]**CONTAINER TYPE**= 40mL Vial(A), 100mL(B), 1Liter(C), Glass(G), Plastic(P)
[c]**PRESERVATION** = HCl(1), H_2SO_4(2), Sodium Thiosulfate(3), Other(O), None(N)
[d]**TEMPERATURE** = Received on Ice(ROI), Not Received on Ice(NRI)
[e]**GENERAL** = Not Applicable(N/A), Accept(A), Reject(R)
[f]**CONDITION** = Improper container/cap(1), Improper preservation(2), Damaged container/cap(3), Insufficient sample volume(4), Headspace/air bubbles(5), Received past holding time(6), Received frozen(7), Label conflicts with COC(8)

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By: Tom Naumann	Date: 4/16/15 Time: 1715	~~2. Relinquished By:~~	Date: Time:	3. Relinquished By:	Date: 4/17/15 Time: 1:30 PM
Received By: FED EX	Date: Time:	Received By:	Date: 4/17/15 Time: 1:30PM	Received By:	Date: 4/18/15 Time: 0910

3.1

PLEASE FILL OUT CHAIN OF CUSTODY RECORD COMPLETELY!

Login Sample Receipt Checklist

Client: AbbVie US LLC

Job Number: 500-94857-1

Login Number: 94857
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	3.1
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Southeast
ACCUTEST LABORATORIES

04/27/15

Technical Report for

ERM

Former Abbott Labs; 16000 Joy St, Laurinburg, NC

0272871

Accutest Job Number: FA23627

Sampling Dates: 04/13/15 - 04/15/15

Report to:

ERM
1130 Situs Court Suite 250
Raleigh, NC 27606
gregory.kanellis@erm.com

ATTN: Greg Kanellis

Total number of pages in report: **73**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest Laboratories

Sample Summary

ERM

Job No: FA23627

Former Abbott Labs; 16000 Joy St, Laurinburg, NC
Project No: 0272871

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23627-1	04/15/15	10:15	TNAN	04/16/15	AQ	Ground Water	MW-100A
FA23627-2	04/15/15	11:45	TNAN	04/16/15	AQ	Ground Water	MW-100B
FA23627-3	04/15/15	08:30	TNAN	04/16/15	AQ	Ground Water	MW-101A
FA23627-4	04/14/15	11:50	TNAN	04/16/15	AQ	Ground Water	MW-101B
FA23627-5	04/14/15	09:05	TNAN	04/16/15	AQ	Ground Water	MW-102A
FA23627-6	04/14/15	10:00	TNAN	04/16/15	AQ	Ground Water	MW-102B
FA23627-7	04/14/15	10:40	TNAN	04/16/15	AQ	Ground Water	MW-102C (LOW FLOW)
FA23627-8	04/14/15	14:30	TNAN	04/16/15	AQ	Ground Water	MW-103B
FA23627-9	04/14/15	15:30	TNAN	04/16/15	AQ	Ground Water	MW-103C
FA23627-10	04/13/15	17:15	TNAN	04/16/15	AQ	Ground Water	FR-6D
FA23627-11	04/15/15	00:00	TNAN	04/16/15	AQ	Ground Water	DUP 2

Summary of Hits

Job Number: FA23627
Account: ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC
Collected: 04/13/15 thru 04/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA23627-1	**MW-100A**					
4-Chloro-3-methyl Phenol [a]		35.6 J	48	4.8	ug/l	SW846 8270D
2-Methylphenol [a]		5.7 J	48	4.8	ug/l	SW846 8270D
3&4-Methylphenol [a]		42.3 J	48	9.5	ug/l	SW846 8270D
Phenol [a]		10 J	48	4.8	ug/l	SW846 8270D
Total TIC, Semi-Volatile		322970 J			ug/l	
Total Organic Carbon		301	11	2.6	mg/l	SM5310 B-11/SW9060A
FA23627-2	**MW-100B**					
4-Chloro-3-methyl Phenol [a]		40.7 J	47	4.7	ug/l	SW846 8270D
2-Methylphenol [a]		6.7 J	47	4.7	ug/l	SW846 8270D
3&4-Methylphenol [a]		59.7	47	9.4	ug/l	SW846 8270D
Phenol [a]		15.3 J	47	4.7	ug/l	SW846 8270D
Total TIC, Semi-Volatile		14553 J			ug/l	
Methane [b]		4450 E	0.50	0.16	ug/l	RSKSOP-147/175
Ethane [b]		8.4	1.0	0.32	ug/l	RSKSOP-147/175
Ethene [b]		67.1	1.0	0.43	ug/l	RSKSOP-147/175
Alkalinity, Total as CaCO3		251	10	5.0	mg/l	SM2320 B-11
Total Organic Carbon		424	15	3.5	mg/l	SM5310 B-11/SW9060A
FA23627-3	**MW-101A**					
bis(2-Ethylhexyl)phthalate		50.0	4.8	0.96	ug/l	SW846 8270D
Total TIC, Semi-Volatile		4.3 J			ug/l	
Total Organic Carbon		1.2	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA23627-4	**MW-101B**					
Methane		57.8	0.50	0.16	ug/l	RSKSOP-147/175
Alkalinity, Total as CaCO3		44.0	10	5.0	mg/l	SM2320 B-11
Total Organic Carbon		1.4	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA23627-5	**MW-102A**					
Total Organic Carbon		1.4	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA23627-6	**MW-102B**					
Methane		5940	5.0	1.6	ug/l	RSKSOP-147/175
Ethane		2.7	1.0	0.32	ug/l	RSKSOP-147/175
Alkalinity, Total as CaCO3		77.6	10	5.0	mg/l	SM2320 B-11
Total Organic Carbon		5.7	1.0	0.23	mg/l	SM5310 B-11/SW9060A

Summary of Hits

Job Number: FA23627
Account: ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC
Collected: 04/13/15 thru 04/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA23627-7	**MW-102C (LOW FLOW)**					
Alkalinity, Total as CaCO3		53.4	10	5.0	mg/l	SM2320 B-11
Total Organic Carbon		246	9.0	2.1	mg/l	SM5310 B-11/SW9060A
FA23627-8	**MW-103B**					
Methane		2200	5.0	1.6	ug/l	RSKSOP-147/175
Ethane		0.41 J	1.0	0.32	ug/l	RSKSOP-147/175
Ethene		32.3	1.0	0.43	ug/l	RSKSOP-147/175
Alkalinity, Total as CaCO3		53.8	10	5.0	mg/l	SM2320 B-11
FA23627-9	**MW-103C**					
Alkalinity, Total as CaCO3		56.6	10	5.0	mg/l	SM2320 B-11
FA23627-10	**FR-6D**					
No hits reported in this sample.						
FA23627-11	**DUP 2**					
4-Chloro-3-methyl Phenol [a]		34.7 J	49	4.9	ug/l	SW846 8270D
2-Methylphenol [a]		6.9 J	49	4.9	ug/l	SW846 8270D
3&4-Methylphenol [a]		52.4	49	9.7	ug/l	SW846 8270D
Phenol [a]		15.0 J	49	4.9	ug/l	SW846 8270D
Total TIC, Semi-Volatile		19740 J			ug/l	

(a) Dilution required due to matrix interference.
(b) No sample available for reanalysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-100A		
Lab Sample ID:	FA23627-1	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X039597.D	10	04/22/15	ME	04/21/15	OP55800	SX1838
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	480	95	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	35.6	48	4.8	ug/l	J
95-57-8	2-Chlorophenol	ND	48	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	4.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	48	4.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	48	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	95	20	ug/l	
95-48-7	2-Methylphenol	5.7	48	4.8	ug/l	J
	3&4-Methylphenol	42.3	48	9.5	ug/l	J
88-75-5	2-Nitrophenol	ND	48	8.4	ug/l	
100-02-7	4-Nitrophenol	ND	240	48	ug/l	
87-86-5	Pentachlorophenol	ND	240	48	ug/l	
108-95-2	Phenol	10	48	4.8	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	48	6.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	6.0	ug/l	
83-32-9	Acenaphthene	ND	48	4.8	ug/l	
208-96-8	Acenaphthylene	ND	48	4.8	ug/l	
62-53-3	Aniline	ND	48	9.5	ug/l	
120-12-7	Anthracene	ND	48	4.8	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	4.8	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	4.8	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	6.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	6.5	ug/l	
100-51-6	Benzyl Alcohol	ND	48	8.1	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	48	6.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	48	9.5	ug/l	
86-74-8	Carbazole	ND	48	4.8	ug/l	
106-47-8	4-Chloroaniline	ND	48	4.8	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	48	6.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.6	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100A		
Lab Sample ID:	FA23627-1	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	4.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	4.8	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	48	5.5	ug/l	
218-01-9	Chrysene	ND	48	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	6.4	ug/l	
132-64-9	Dibenzofuran	ND	48	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	4.8	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	6.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	6.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	5.0	ug/l	
84-66-2	Diethyl Phthalate	ND	48	14	ug/l	
131-11-3	Dimethyl Phthalate	ND	48	9.5	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	48	9.5	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	48	9.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	5.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	6.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	5.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	9.5	ug/l	
206-44-0	Fluoranthene	ND	48	4.8	ug/l	
86-73-7	Fluorene	ND	48	4.8	ug/l	
118-74-1	Hexachlorobenzene	ND	48	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	48	5.7	ug/l	
77-47-4	Hexachlorocyclopentadiene [b]	ND	48	9.5	ug/l	
67-72-1	Hexachloroethane	ND	48	6.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	6.0	ug/l	
78-59-1	Isophorone	ND	48	4.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	48	4.8	ug/l	
91-57-6	2-Methylnaphthalene	ND	48	4.8	ug/l	
91-20-3	Naphthalene	ND	48	4.8	ug/l	
88-74-4	2-Nitroaniline	ND	48	4.8	ug/l	
99-09-2	3-Nitroaniline	ND	48	5.1	ug/l	
100-01-6	4-Nitroaniline	ND	48	9.4	ug/l	
98-95-3	Nitrobenzene	ND	48	5.0	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	9.5	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	48	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	5.6	ug/l	
85-01-8	Phenanthrene	ND	48	4.9	ug/l	
129-00-0	Pyrene	ND	48	5.2	ug/l	
110-86-1	Pyridine	ND	95	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100A		
Lab Sample ID:	FA23627-1	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-67%
4165-62-2	Phenol-d5	34%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
108-10-1	Methyl Isobutyl Ketone	3.03	510	ug/l	JN
108-88-3	Toluene	3.31	8300	ug/l	JN
503-74-2	Butanoic acid, 3-methyl-	4.24	680	ug/l	JN
108-93-0	Cyclohexanol	4.51	250000	ug/l	JN
3377-87-5	Hexane, 3-bromo-	4.78	820	ug/l	JN
3274-29-1	Heptanoic acid, 2-ethyl-	5.52	490	ug/l	JN
111-14-8	Heptanoic acid	5.94	57000	ug/l	JN
4536-23-6	Hexanoic acid, 2-methyl-	6.16	870	ug/l	JN
124-07-2	Octanoic Acid	6.42	3000	ug/l	JN
112-05-0	Nonanoic acid	6.89	1300	ug/l	JN
	Total TIC, Semi-Volatile		322970	ug/l	J

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100A		
Lab Sample ID:	FA23627-1	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	301	11	2.6	mg/l	11	04/20/15 19:26	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-100B		
Lab Sample ID:	FA23627-2	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X039598.D	10	04/22/15	ME	04/21/15	OP55800	SX1838
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	470	94	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	40.7	47	4.7	ug/l	J
95-57-8	2-Chlorophenol	ND	47	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	47	4.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	47	4.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	47	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	94	20	ug/l	
95-48-7	2-Methylphenol	6.7	47	4.7	ug/l	J
	3&4-Methylphenol	59.7	47	9.4	ug/l	
88-75-5	2-Nitrophenol	ND	47	8.3	ug/l	
100-02-7	4-Nitrophenol	ND	240	47	ug/l	
87-86-5	Pentachlorophenol	ND	240	47	ug/l	
108-95-2	Phenol	15.3	47	4.7	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	47	6.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	47	5.9	ug/l	
83-32-9	Acenaphthene	ND	47	4.7	ug/l	
208-96-8	Acenaphthylene	ND	47	4.7	ug/l	
62-53-3	Aniline	ND	47	9.4	ug/l	
120-12-7	Anthracene	ND	47	4.7	ug/l	
92-87-5	Benzidine	ND	240	47	ug/l	
56-55-3	Benzo(a)anthracene	ND	47	4.7	ug/l	
50-32-8	Benzo(a)pyrene	ND	47	4.7	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	47	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	47	6.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	47	6.4	ug/l	
100-51-6	Benzyl Alcohol	ND	47	8.0	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	47	6.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	47	9.4	ug/l	
86-74-8	Carbazole	ND	47	4.7	ug/l	
106-47-8	4-Chloroaniline	ND	47	4.7	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	47	6.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	47	6.5	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100B		
Lab Sample ID:	FA23627-2	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	47	4.7	ug/l	
91-58-7	2-Chloronaphthalene	ND	47	4.7	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	47	5.4	ug/l	
218-01-9	Chrysene	ND	47	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	47	6.4	ug/l	
132-64-9	Dibenzofuran	ND	47	4.7	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	47	4.7	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	47	6.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	47	6.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	47	4.9	ug/l	
84-66-2	Diethyl Phthalate	ND	47	13	ug/l	
131-11-3	Dimethyl Phthalate	ND	47	9.4	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	47	9.4	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	47	9.4	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	47	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	47	6.5	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	47	5.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	47	9.4	ug/l	
206-44-0	Fluoranthene	ND	47	4.7	ug/l	
86-73-7	Fluorene	ND	47	4.7	ug/l	
118-74-1	Hexachlorobenzene	ND	47	5.9	ug/l	
87-68-3	Hexachlorobutadiene	ND	47	5.7	ug/l	
77-47-4	Hexachlorocyclopentadiene [b]	ND	47	9.4	ug/l	
67-72-1	Hexachloroethane	ND	47	6.4	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47	6.0	ug/l	
78-59-1	Isophorone	ND	47	4.8	ug/l	
90-12-0	1-Methylnaphthalene	ND	47	4.7	ug/l	
91-57-6	2-Methylnaphthalene	ND	47	4.7	ug/l	
91-20-3	Naphthalene	ND	47	4.7	ug/l	
88-74-4	2-Nitroaniline	ND	47	4.7	ug/l	
99-09-2	3-Nitroaniline	ND	47	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	47	9.3	ug/l	
98-95-3	Nitrobenzene	ND	47	4.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	47	9.4	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	47	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	47	5.6	ug/l	
85-01-8	Phenanthrene	ND	47	4.8	ug/l	
129-00-0	Pyrene	ND	47	5.2	ug/l	
110-86-1	Pyridine	ND	94	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	47	4.7	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100B		
Lab Sample ID:	FA23627-2	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-67%
4165-62-2	Phenol-d5	36%		10-50%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	86%		42-108%
321-60-8	2-Fluorobiphenyl	86%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
108-88-3	Toluene	3.31	68	ug/l	JN
108-93-0	Cyclohexanol	4.50	990	ug/l	JN
111-14-8	Heptanoic acid	5.99	8600	ug/l	JN
149-57-5	Hexanoic acid, 2-ethyl-	6.11	230	ug/l	JN
4536-23-6	Hexanoic acid, 2-methyl-	6.19	1500	ug/l	JN
103-82-2	Benzeneacetic acid	6.77	64	ug/l	JN
112-05-0	Nonanoic acid	6.90	2300	ug/l	JN
334-48-5	n-Decanoic acid	7.36	470	ug/l	JN
2396-84-1	2,4-Hexadienoic acid, ethyl ester	8.13	280	ug/l	JN
80-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.80	51	ug/l	JN
	Total TIC, Semi-Volatile		14553	ug/l	J

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100B		
Lab Sample ID:	FA23627-2	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF28597.D	1	04/21/15	EG	n/a	n/a	GFF1130
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	22 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4450	0.50	0.16	ug/l	E
74-84-0	Ethane	8.4	1.0	0.32	ug/l	
74-85-1	Ethene	67.1	1.0	0.43	ug/l	

(a) No sample available for reanalysis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-100B		
Lab Sample ID:	FA23627-2	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	251	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11
Total Organic Carbon	424	15	3.5	mg/l	15	04/20/15 20:50	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-101A		
Lab Sample ID:	FA23627-3	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039599.D	1	04/22/15	ME	04/21/15	OP55800	SX1838
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101A		
Lab Sample ID:	FA23627-3	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	50.0	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene [a]	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101A		
Lab Sample ID:	FA23627-3	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
104-76-7	1-Hexanol, 2-ethyl-	5.45	4.3	ug/l	JN
	Total TIC, Semi-Volatile		4.3	ug/l	J

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101A		
Lab Sample ID:	FA23627-3	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	1.2	1.0	0.23	mg/l	1	04/20/15 21:20	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-101B		
Lab Sample ID:	FA23627-4	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039611.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [a]	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101B		
Lab Sample ID:	FA23627-4	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene [a]	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101B		
Lab Sample ID:	FA23627-4	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101B		
Lab Sample ID:	FA23627-4	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FF28598.D	1	04/21/15	EG	n/a	n/a	GFF1130
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	22 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	57.8	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-101B		
Lab Sample ID:	FA23627-4	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	44.0	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11
Total Organic Carbon	1.4	1.0	0.23	mg/l	1	04/20/15 21:34	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-102A		
Lab Sample ID:	FA23627-5	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	1.4	1.0	0.23	mg/l	1	04/21/15 14:32	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-102B		
Lab Sample ID:	FA23627-6	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FF28599.D	1	04/21/15	EG	n/a	n/a	GFF1130
Run #2	FF28611.D	10	04/22/15	EG	n/a	n/a	GFF1131

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	22 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	22 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5940 [a]	5.0	1.6	ug/l	
74-84-0	Ethane	2.7	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-102B		
Lab Sample ID:	FA23627-6	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	77.6	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11
Total Organic Carbon	5.7	1.0	0.23	mg/l	1	04/21/15 14:47	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-102C (LOW FLOW)		
Lab Sample ID:	FA23627-7	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	53.4	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11
Total Organic Carbon	246	9.0	2.1	mg/l	9	04/21/15 15:02	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-103B		
Lab Sample ID:	FA23627-8	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FF28600.D	1	04/21/15	EG	n/a	n/a	GFF1130
Run #2	FF28612.D	10	04/22/15	EG	n/a	n/a	GFF1131

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	22 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	22 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2200 [a]	5.0	1.6	ug/l	
74-84-0	Ethane	0.41	1.0	0.32	ug/l	J
74-85-1	Ethene	32.3	1.0	0.43	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-103B		
Lab Sample ID:	FA23627-8	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	53.8	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-103C		
Lab Sample ID:	FA23627-9	**Date Sampled:**	04/14/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
		Percent Solids:	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	56.6	10	5.0	mg/l	1	04/17/15 14:05	DB	SM2320 B-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	FR-6D		
Lab Sample ID:	FA23627-10	**Date Sampled:**	04/13/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039612.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [a]	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-6D		
Lab Sample ID:	FA23627-10	**Date Sampled:**	04/13/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene [a]	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-6D		
Lab Sample ID:	FA23627-10	**Date Sampled:**	04/13/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	58%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 2		
Lab Sample ID:	FA23627-11	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X039602.D	10	04/23/15	ME	04/21/15	OP55800	SX1838
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	490	97	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	34.7	49	4.9	ug/l	J
95-57-8	2-Chlorophenol	ND	49	4.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	49	4.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	49	4.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	49	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	97	21	ug/l	
95-48-7	2-Methylphenol	6.9	49	4.9	ug/l	J
	3&4-Methylphenol	52.4	49	9.7	ug/l	
88-75-5	2-Nitrophenol	ND	49	8.5	ug/l	
100-02-7	4-Nitrophenol	ND	240	49	ug/l	
87-86-5	Pentachlorophenol	ND	240	49	ug/l	
108-95-2	Phenol	15.0	49	4.9	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	49	6.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	49	6.1	ug/l	
83-32-9	Acenaphthene	ND	49	4.9	ug/l	
208-96-8	Acenaphthylene	ND	49	4.9	ug/l	
62-53-3	Aniline	ND	49	9.7	ug/l	
120-12-7	Anthracene	ND	49	4.9	ug/l	
92-87-5	Benzidine	ND	240	49	ug/l	
56-55-3	Benzo(a)anthracene	ND	49	4.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	49	4.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	49	5.6	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	49	6.4	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	49	6.6	ug/l	
100-51-6	Benzyl Alcohol	ND	49	8.2	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	49	6.2	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	49	9.7	ug/l	
86-74-8	Carbazole	ND	49	4.9	ug/l	
106-47-8	4-Chloroaniline	ND	49	4.9	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	49	6.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	49	6.7	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 2		
Lab Sample ID:	FA23627-11	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	49	4.9	ug/l	
91-58-7	2-Chloronaphthalene	ND	49	4.9	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	49	5.6	ug/l	
218-01-9	Chrysene	ND	49	4.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	49	6.6	ug/l	
132-64-9	Dibenzofuran	ND	49	4.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	49	4.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	49	6.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	49	6.3	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	49	5.1	ug/l	
84-66-2	Diethyl Phthalate	ND	49	14	ug/l	
131-11-3	Dimethyl Phthalate	ND	49	9.7	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	49	9.7	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	49	9.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	49	5.7	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	49	6.7	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	49	5.8	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	49	9.7	ug/l	
206-44-0	Fluoranthene	ND	49	4.9	ug/l	
86-73-7	Fluorene	ND	49	4.9	ug/l	
118-74-1	Hexachlorobenzene	ND	49	6.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	49	5.8	ug/l	
77-47-4	Hexachlorocyclopentadiene [b]	ND	49	9.7	ug/l	
67-72-1	Hexachloroethane	ND	49	6.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	49	6.1	ug/l	
78-59-1	Isophorone	ND	49	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	49	4.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	49	4.9	ug/l	
91-20-3	Naphthalene	ND	49	4.9	ug/l	
88-74-4	2-Nitroaniline	ND	49	4.9	ug/l	
99-09-2	3-Nitroaniline	ND	49	5.2	ug/l	
100-01-6	4-Nitroaniline	ND	49	9.6	ug/l	
98-95-3	Nitrobenzene	ND	49	5.1	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	49	9.7	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	49	5.6	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	49	5.7	ug/l	
85-01-8	Phenanthrene	ND	49	5.0	ug/l	
129-00-0	Pyrene	ND	49	5.3	ug/l	
110-86-1	Pyridine	ND	97	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	49	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 2		
Lab Sample ID:	FA23627-11	**Date Sampled:**	04/15/15
Matrix:	AQ - Ground Water	**Date Received:**	04/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Former Abbott Labs; 16000 Joy St, Laurinburg, NC		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		14-67%
4165-62-2	Phenol-d5	34%		10-50%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	84%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
108-93-0	Cyclohexanol	4.49	1100	ug/l	JN
4536-23-6	Hexanoic acid, 2-methyl-	5.16	380	ug/l	JN
111-14-8	Heptanoic acid	5.97	7900	ug/l	JN
149-57-5	Hexanoic acid, 2-ethyl-	6.10	220	ug/l	JN
4536-23-6	Hexanoic acid, 2-methyl-	6.18	1400	ug/l	JN
124-07-2	Octanoic Acid	6.45	6000	ug/l	JN
112-05-0	Nonanoic acid	6.90	2000	ug/l	JN
501-52-0	Benzenepropanoic acid	7.22	80	ug/l	JN
334-48-5	n-Decanoic acid	7.35	390	ug/l	JN
1000142-18-5	1-Oxetan-2-one, 4,4-diethyl-3-meth	8.13	270	ug/l	JN
	Total TIC, Semi-Volatile		19740	ug/l	J

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA23627 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM
Address:
City: RALEIGH State: NC Zip:
Project Contact: GRANT NATKINS E-mail: GRANT.NATKINS@ERM.COM
Phone#:
Sampler(s) Name(s) (Printed): TOM NAUMANN, ANDY NEAL

Project Information

Project Name: PALMER ABBOTT, LAURINBURG
Street: 16000 JOY STREET
City: LAURINBURG State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By:	Matrix	Total # of Bottles	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	TOC (SW-5310B)	ALK (SM-2320B)	MBE (8015-175)	SVOC+TICS (8270D)								Matrix Codes / LAB USE ONLY
1	MW-100A	4/15/15	1015	AN	GW	2			2							✓											
2	MW-100B	4/15/15	1115	AN		8		3	5							✓	✓	✓	✓								
3	MW-101A	4/15/15	0830	AN		2			2							✓											
4	MW-101B	4/14/15	1150	AN		8		3	5							✓	✓	✓	✓								
5	MW-102A	4/14/15	0905	AN		2			2							✓											
6	MW-102B	4/14/15	1000	AN		6		1	5							✓	✓	✓									
7	MW-102C (LOW FLOW)	4/14/15	1040	AN		3		1	2							✓	✓										
8	MW-103B	4/14/15	1430	TN		4		1	3								✓	✓									
9	MW-103C	4/14/15	1530	TN		1		1									✓										
10	FR-6D	4/13/15	1715	AN	↓	2		2											✓								

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Tom Naumann		2 FX	3 FX 04-16-15	Date Time: 930	4 [signature]
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.4 3.6

4.1 4

FA23627: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA23627 CLIENT: ERM PROJECT: Former Abbot

DATE/TIME RECEIVED: 04/16/15 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7885 0729 4751 / 4762

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6 3.8
- [ ] CORRECTED TEMPS: 3.4 3.6

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [x] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [x] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#
  {APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: Sample #1 Received 1 (8270) Not on COC, Sample #2 Received 2 Broken vials (8260) #3 Received 2 Amber Not on COC, Received 2 Amber FD Dup 2 will be #11

TECHNICIAN SIGNATURE/DATE 04/16/15 REVIEWER SIGNATURE/DATE 4-16-15

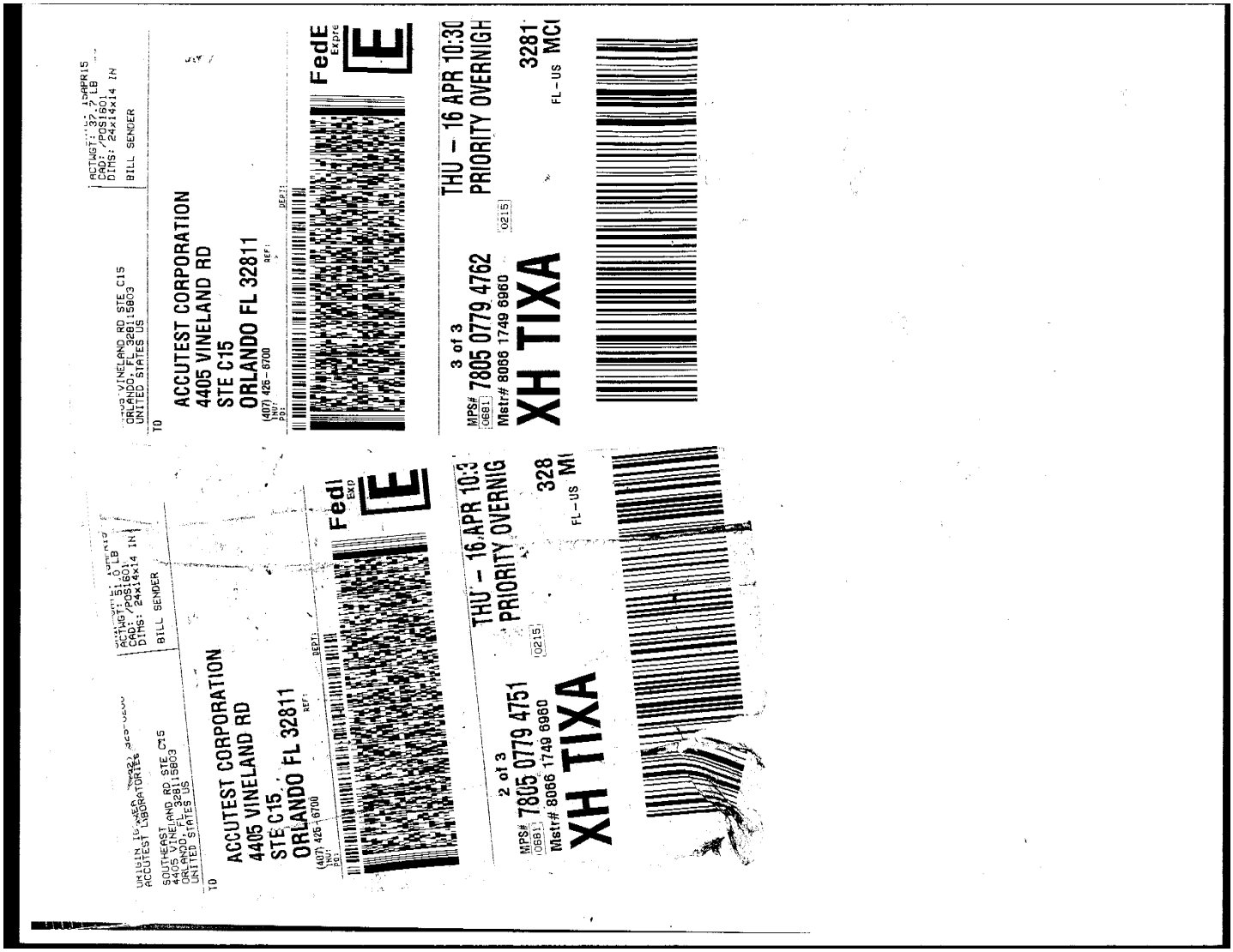
NF 10/14

receipt confirmation 102914.xls

4.1

4

FA23627: Chain of Custody
Page 2 of 3



FA23627: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MB	X039610.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.66	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MB	X039610.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.63	ug/l	
78-59-1	Isophorone	ND	5.0	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MB	X039610.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	14-67%
4165-62-2	Phenol-d5	23%	10-50%
118-79-6	2,4,6-Tribromophenol	69%	33-118%
4165-60-0	Nitrobenzene-d5	70%	42-108%
321-60-8	2-Fluorobiphenyl	68%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB	X039593.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.66	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB	X039593.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.63	ug/l	
78-59-1	Isophorone	ND	5.0	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB	X039593.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	25%	10-50%
118-79-6	2,4,6-Tribromophenol	73%	33-118%
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	86%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-BS	X039609.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
59-50-7	4-Chloro-3-methyl Phenol	50	32.1	64	54-103
95-57-8	2-Chlorophenol	50	27.9	56	52-98
120-83-2	2,4-Dichlorophenol	50	29.8	60	53-103
105-67-9	2,4-Dimethylphenol	50	28.1	56	43-90
51-28-5	2,4-Dinitrophenol	100	79.9	80	44-112
534-52-1	4,6-Dinitro-o-cresol	100	78.4	78	66-121
95-48-7	2-Methylphenol	50	24.1	48	43-90
	3&4-Methylphenol	100	45.4	45	36-88
88-75-5	2-Nitrophenol	50	30.5	61	53-102
100-02-7	4-Nitrophenol	100	34.6	35	18-62
87-86-5	Pentachlorophenol	100	91.0	91	61-115
108-95-2	Phenol	50	11.7	23	19-56
95-95-4	2,4,5-Trichlorophenol	50	33.8	68	62-109
88-06-2	2,4,6-Trichlorophenol	50	34.0	68	59-107
83-32-9	Acenaphthene	50	34.3	69	61-107
208-96-8	Acenaphthylene	50	34.1	68	60-104
62-53-3	Aniline	50	26.6	53	47-100
120-12-7	Anthracene	50	40.6	81	65-108
92-87-5	Benzidine	50	34.1	68	25-99
56-55-3	Benzo(a)anthracene	50	40.7	81	66-111
50-32-8	Benzo(a)pyrene	50	41.1	82	62-107
205-99-2	Benzo(b)fluoranthene	50	41.1	82	65-114
191-24-2	Benzo(g,h,i)perylene	50	44.4	89	66-116
207-08-9	Benzo(k)fluoranthene	50	44.1	88	65-114
100-51-6	Benzyl Alcohol	50	24.6	49	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	32.0	64* [a]	65-109
85-68-7	Butyl Benzyl Phthalate	50	41.6	83	65-112
86-74-8	Carbazole	50	41.6	83	59-113
106-47-8	4-Chloroaniline	50	29.8	60	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	28.3	57	51-102
111-44-4	bis(2-Chloroethyl)ether	50	28.2	56	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	29.5	59	45-106
91-58-7	2-Chloronaphthalene	50	30.4	61	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	34.8	70	62-105
218-01-9	Chrysene	50	41.4	83	66-111
53-70-3	Dibenzo(a,h)anthracene	50	41.7	83	66-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-BS	X039609.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	34.2	68	61-106
95-50-1	1,2-Dichlorobenzene	50	25.8	52	48-97
541-73-1	1,3-Dichlorobenzene	50	25.7	51	45-95
106-46-7	1,4-Dichlorobenzene	50	26.4	53	45-98
91-94-1	3,3'-Dichlorobenzidine	50	41.0	82	46-117
84-66-2	Diethyl Phthalate	50	39.1	78	64-108
131-11-3	Dimethyl Phthalate	50	37.4	75	63-106
84-74-2	Di-n-butyl Phthalate	50	40.2	80	65-107
117-84-0	Di-n-octyl Phthalate	50	40.5	81	62-118
121-14-2	2,4-Dinitrotoluene	50	41.5	83	61-110
606-20-2	2,6-Dinitrotoluene	50	38.3	77	63-108
122-66-7	1,2-Diphenylhydrazine	50	36.9	74	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	43.1	86	61-117
206-44-0	Fluoranthene	50	41.0	82	63-106
86-73-7	Fluorene	50	37.1	74	62-108
118-74-1	Hexachlorobenzene	50	32.1	64	63-108
87-68-3	Hexachlorobutadiene	50	28.0	56	42-102
77-47-4	Hexachlorocyclopentadiene	50	18.8	38* [a]	39-102
67-72-1	Hexachloroethane	50	26.0	52	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.1	76	64-119
78-59-1	Isophorone	50	28.1	56	43-87
90-12-0	1-Methylnaphthalene	50	36.8	74	53-102
91-57-6	2-Methylnaphthalene	50	29.7	59	51-102
91-20-3	Naphthalene	50	29.4	59	47-100
88-74-4	2-Nitroaniline	50	46.4	93	54-128
99-09-2	3-Nitroaniline	50	39.1	78	56-106
100-01-6	4-Nitroaniline	50	42.3	85	55-120
98-95-3	Nitrobenzene	50	28.2	56	50-104
62-75-9	N-Nitrosodimethylamine	50	17.5	35	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	28.8	58	52-104
86-30-6	N-Nitrosodiphenylamine	50	39.3	79	64-108
85-01-8	Phenanthrene	50	40.4	81	66-110
129-00-0	Pyrene	50	40.6	81	64-113
110-86-1	Pyridine	50	15.2	30	23-74
120-82-1	1,2,4-Trichlorobenzene	50	26.5	53	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-BS	X039609.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	32%	14-67%
4165-62-2	Phenol-d5	22%	10-50%
118-79-6	2,4,6-Tribromophenol	72%	33-118%
4165-60-0	Nitrobenzene-d5	56%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS	X039592.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
59-50-7	4-Chloro-3-methyl Phenol	50	35.9	72	54-103
95-57-8	2-Chlorophenol	50	33.9	68	52-98
120-83-2	2,4-Dichlorophenol	50	35.5	71	53-103
105-67-9	2,4-Dimethylphenol	50	32.4	65	43-90
51-28-5	2,4-Dinitrophenol	100	80.3	80	44-112
534-52-1	4,6-Dinitro-o-cresol	100	77.2	77	66-121
95-48-7	2-Methylphenol	50	28.4	57	43-90
	3&4-Methylphenol	100	53.5	54	36-88
88-75-5	2-Nitrophenol	50	37.8	76	53-102
100-02-7	4-Nitrophenol	100	30.9	31	18-62
87-86-5	Pentachlorophenol	100	88.1	88	61-115
108-95-2	Phenol	50	13.7	27	19-56
95-95-4	2,4,5-Trichlorophenol	50	36.7	73	62-109
88-06-2	2,4,6-Trichlorophenol	50	38.2	76	59-107
83-32-9	Acenaphthene	50	37.8	76	61-107
208-96-8	Acenaphthylene	50	37.5	75	60-104
62-53-3	Aniline	50	32.3	65	47-100
120-12-7	Anthracene	50	39.1	78	65-108
92-87-5	Benzidine	50	35.8	72	25-99
56-55-3	Benzo(a)anthracene	50	39.1	78	66-111
50-32-8	Benzo(a)pyrene	50	37.7	75	62-107
205-99-2	Benzo(b)fluoranthene	50	37.7	75	65-114
191-24-2	Benzo(g,h,i)perylene	50	39.1	78	66-116
207-08-9	Benzo(k)fluoranthene	50	40.1	80	65-114
100-51-6	Benzyl Alcohol	50	29.9	60	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	33.0	66	65-109
85-68-7	Butyl Benzyl Phthalate	50	40.3	81	65-112
86-74-8	Carbazole	50	39.5	79	59-113
106-47-8	4-Chloroaniline	50	35.5	71	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	34.9	70	51-102
111-44-4	bis(2-Chloroethyl)ether	50	33.9	68	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	35.3	71	45-106
91-58-7	2-Chloronaphthalene	50	34.2	68	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	35.2	70	62-105
218-01-9	Chrysene	50	39.6	79	66-111
53-70-3	Dibenzo(a,h)anthracene	50	40.0	80	66-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS	X039592.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	36.2	72	61-106
95-50-1	1,2-Dichlorobenzene	50	29.5	59	48-97
541-73-1	1,3-Dichlorobenzene	50	28.4	57	45-95
106-46-7	1,4-Dichlorobenzene	50	30.4	61	45-98
91-94-1	3,3'-Dichlorobenzidine	50	37.5	75	46-117
84-66-2	Diethyl Phthalate	50	37.3	75	64-108
131-11-3	Dimethyl Phthalate	50	37.2	74	63-106
84-74-2	Di-n-butyl Phthalate	50	39.2	78	65-107
117-84-0	Di-n-octyl Phthalate	50	37.0	74	62-118
121-14-2	2,4-Dinitrotoluene	50	39.1	78	61-110
606-20-2	2,6-Dinitrotoluene	50	37.4	75	63-108
122-66-7	1,2-Diphenylhydrazine	50	37.4	75	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	39.7	79	61-117
206-44-0	Fluoranthene	50	39.6	79	63-106
86-73-7	Fluorene	50	38.0	76	62-108
118-74-1	Hexachlorobenzene	50	31.8	64	63-108
87-68-3	Hexachlorobutadiene	50	29.8	60	42-102
77-47-4	Hexachlorocyclopentadiene	50	18.3	37* [a]	39-102
67-72-1	Hexachloroethane	50	28.1	56	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.1	74	64-119
78-59-1	Isophorone	50	34.7	69	43-87
90-12-0	1-Methylnaphthalene	50	43.4	87	53-102
91-57-6	2-Methylnaphthalene	50	34.1	68	51-102
91-20-3	Naphthalene	50	34.8	70	47-100
88-74-4	2-Nitroaniline	50	47.7	95	54-128
99-09-2	3-Nitroaniline	50	40.0	80	56-106
100-01-6	4-Nitroaniline	50	40.8	82	55-120
98-95-3	Nitrobenzene	50	35.2	70	50-104
62-75-9	N-Nitrosodimethylamine	50	21.9	44	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	36.9	74	52-104
86-30-6	N-Nitrosodiphenylamine	50	38.8	78	64-108
85-01-8	Phenanthrene	50	39.2	78	66-110
129-00-0	Pyrene	50	39.7	79	64-113
110-86-1	Pyridine	50	20.0	40	23-74
120-82-1	1,2,4-Trichlorobenzene	50	30.1	60	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS	X039592.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	26%	10-50%
118-79-6	2,4,6-Tribromophenol	76%	33-118%
4165-60-0	Nitrobenzene-d5	71%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

(a) Sporadic marginal failure, within limits in MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MS	X039613.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
OP55778-MSD	X039614.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
FA23627-10	X039612.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	FA23627-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	63.8	66	96.2	67.3	70	5	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	55.6	58	96.2	58.3	61	5	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	59.5	62	96.2	62.6	65	5	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	57.2	59	96.2	60.4	63	5	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	135	70	192	151	79	11	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	132	69	192	141	73	7	66-121/23
95-48-7	2-Methylphenol	ND		96.2	51.9	54	96.2	54.0	56	4	43-90/28
	3&4-Methylphenol	ND		192	105	55	192	106	55	1	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	58.6	61	96.2	62.4	65	6	53-102/29
100-02-7	4-Nitrophenol	ND		192	82.7	43	192	93.6	49	12	18-62/33
87-86-5	Pentachlorophenol	ND		192	151	79	192	165	86	9	61-115/26
108-95-2	Phenol	ND		96.2	32.1	33	96.2	34.0	35	6	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	63.5	66	96.2	66.1	69	4	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	66.3	69	96.2	67.5	70	2	59-107/23
83-32-9	Acenaphthene	ND		96.2	68.4	71	96.2	70.4	73	3	61-107/22
208-96-8	Acenaphthylene	ND		96.2	67.4	70	96.2	69.5	72	3	60-104/22
62-53-3	Aniline	ND		96.2	56.5	59	96.2	58.6	61	4	47-100/30
120-12-7	Anthracene	ND		96.2	69.3	72	96.2	73.5	76	6	65-108/20
92-87-5	Benzidine	ND		96.2	36.7	38	96.2	34.8	36	5	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	70.0	73	96.2	73.1	76	4	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	67.2	70	96.2	70.5	73	5	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	69.7	72	96.2	72.3	75	4	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	72.6	76	96.2	77.1	80	6	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	73.8	77	96.2	78.8	82	7	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	53.7	56	96.2	56.5	59	5	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	58.5	61*	96.2	60.5	63*	3	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	70.7	74	96.2	72.0	75	2	65-112/24
86-74-8	Carbazole	ND		96.2	71.6	74	96.2	77.0	80	7	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	61.0	63	96.2	62.9	65	3	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	56.7	59	96.2	58.8	61	4	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	55.3	58	96.2	57.0	59	3	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	57.2	59	96.2	60.1	63	5	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	61.5	64	96.2	62.9	65	2	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	63.6	66	96.2	66.7	69	5	62-105/20
218-01-9	Chrysene	ND		96.2	74.3	77	96.2	74.9	78	1	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	67.1	70	96.2	66.1	69	2	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MS	X039613.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
OP55778-MSD	X039614.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
FA23627-10	X039612.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Compound	FA23627-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		96.2	66.7	69	96.2	68.3	71	2	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	51.2	53	96.2	54.0	56	5	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	50.5	53	96.2	54.5	57	8	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	52.7	55	96.2	56.9	59	8	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	65.4	68	96.2	69.7	72	6	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	67.9	71	96.2	72.6	76	7	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	67.6	70	96.2	69.8	73	3	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	67.8	71	96.2	71.6	74	5	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	58.6	61*	96.2	62.8	65	7	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	68.7	71	96.2	76.0	79	10	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	67.0	70	96.2	68.7	71	3	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	66.2	69	96.2	70.2	73	6	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	68.7	71	96.2	68.1	71	1	61-117/23
206-44-0	Fluoranthene	ND		96.2	69.2	72	96.2	74.7	78	8	63-106/21
86-73-7	Fluorene	ND		96.2	69.4	72	96.2	71.1	74	2	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	57.0	59*	96.2	59.1	61*	4	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	56.7	59	96.2	58.0	60	2	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	36.3	38*	96.2	39.0	41	7	39-102/29
67-72-1	Hexachloroethane	ND		96.2	51.5	54	96.2	55.7	58	8	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	59.4	62*	96.2	63.1	66	6	64-119/24
78-59-1	Isophorone	ND		96.2	58.1	60	96.2	58.8	61	1	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	75.2	78	96.2	77.2	80	3	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	60.3	63	96.2	61.3	64	2	51-102/26
91-20-3	Naphthalene	ND		96.2	59.3	62	96.2	61.5	64	4	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	85.2	89	96.2	89.4	93	5	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	71.3	74	96.2	75.2	78	5	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	69.3	72	96.2	78.0	81	12	55-120/24
98-95-3	Nitrobenzene	ND		96.2	56.9	59	96.2	60.2	63	6	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	47.9	50	96.2	48.7	51	2	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	60.5	63	96.2	62.2	65	3	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	69.6	72	96.2	73.4	76	5	64-108/23
85-01-8	Phenanthrene	ND		96.2	70.3	73	96.2	74.9	78	6	66-110/21
129-00-0	Pyrene	ND		96.2	70.8	74	96.2	74.3	77	5	64-113/23
110-86-1	Pyridine	ND		96.2	29.7	31	96.2	39.4	41	28	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	53.5	56	96.2	55.9	58	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55778-MS	X039613.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
OP55778-MSD	X039614.D	1	04/23/15	ME	04/20/15	OP55778	SX1839
FA23627-10	X039612.D	1	04/23/15	ME	04/20/15	OP55778	SX1839

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-4, FA23627-10

CAS No.	Surrogate Recoveries	MS	MSD	FA23627-10	Limits
367-12-4	2-Fluorophenol	40%	43%	31%	14-67%
4165-62-2	Phenol-d5	32%	34%	20%	10-50%
118-79-6	2,4,6-Tribromophenol	68%	72%	58%	33-118%
4165-60-0	Nitrobenzene-d5	58%	61%	58%	42-108%
321-60-8	2-Fluorobiphenyl	64%	63%	57%	40-106%
1718-51-0	Terphenyl-d14	72%	74%	75%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	X039600.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
OP55800-MSD	X039601.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
FA23627-3	X039599.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	FA23627-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	69.0	72	96.2	72.2	75	5	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	61.6	64	96.2	62.7	65	2	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	67.1	70	96.2	67.1	70	0	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	62.3	65	96.2	60.9	63	2	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	147	76	192	159	83	8	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	141	73	192	149	77	6	66-121/23
95-48-7	2-Methylphenol	ND		96.2	57.3	60	96.2	57.2	59	0	43-90/28
	3&4-Methylphenol	ND		192	114	59	192	115	60	1	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	65.4	68	96.2	66.9	70	2	53-102/29
100-02-7	4-Nitrophenol	ND		192	88.4	46	192	104	54	16	18-62/33
87-86-5	Pentachlorophenol	ND		192	169	88	192	177	92	5	61-115/26
108-95-2	Phenol	ND		96.2	36.4	38	96.2	38.5	40	6	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	66.5	69	96.2	68.0	71	2	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	69.7	72	96.2	69.6	72	0	59-107/23
83-32-9	Acenaphthene	ND		96.2	69.3	72	96.2	69.9	73	1	61-107/22
208-96-8	Acenaphthylene	ND		96.2	69.6	72	96.2	71.3	74	2	60-104/22
62-53-3	Aniline	ND		96.2	61.8	64	96.2	61.9	64	0	47-100/30
120-12-7	Anthracene	ND		96.2	72.4	75	96.2	77.8	81	7	65-108/20
92-87-5	Benzidine	ND		96.2	45.7	48	96.2	48.3	50	6	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	70.9	74	96.2	75.8	79	7	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	68.2	71	96.2	75.2	78	10	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	68.8	72	96.2	75.7	79	10	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	75.4	78	96.2	79.5	83	5	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	70.8	74	96.2	78.7	82	11	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	60.5	63	96.2	62.8	65	4	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	60.2	63*	96.2	62.6	65	4	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	73.1	76	96.2	77.1	80	5	65-112/24
86-74-8	Carbazole	ND		96.2	74.5	77	96.2	79.7	83	7	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	65.0	68	96.2	67.1	70	3	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	63.6	66	96.2	64.2	67	1	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	60.2	63	96.2	59.9	62	0	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	64.7	67	96.2	64.3	67	1	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	62.9	65	96.2	64.4	67	2	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	65.6	68	96.2	68.1	71	4	62-105/20
218-01-9	Chrysene	ND		96.2	72.0	75	96.2	77.2	80	7	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	71.3	74	96.2	75.0	78	5	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	X039600.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
OP55800-MSD	X039601.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
FA23627-3	X039599.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Compound	FA23627-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		96.2	67.3	70	96.2	70.3	73	4	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	53.5	56	96.2	53.8	56	1	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	52.2	54	96.2	53.1	55	2	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	54.4	57	96.2	55.0	57	1	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	71.3	74	96.2	76.1	79	7	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	68.3	71	96.2	72.3	75	6	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	68.4	71	96.2	71.0	74	4	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	72.8	76	96.2	75.9	79	4	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	72.5	75	96.2	74.0	77	2	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	69.2	72	96.2	75.5	79	9	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	67.1	70	96.2	71.1	74	6	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	69.7	72	96.2	72.0	75	3	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	50.0		96.2	120	73	96.2	120	73	0	61-117/23
206-44-0	Fluoranthene	ND		96.2	72.7	76	96.2	78.3	81	7	63-106/21
86-73-7	Fluorene	ND		96.2	68.7	71	96.2	72.4	75	5	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	58.3	61*	96.2	62.7	65	7	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	59.4	62	96.2	62.2	65	5	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	38.1	40	96.2	40.1	42	5	39-102/29
67-72-1	Hexachloroethane	ND		96.2	53.5	56	96.2	54.6	57	2	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	67.2	70	96.2	72.4	75	7	64-119/24
78-59-1	Isophorone	ND		96.2	63.8	66	96.2	65.8	68	3	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	79.6	83	96.2	83.4	87	5	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	65.3	68	96.2	66.6	69	2	51-102/26
91-20-3	Naphthalene	ND		96.2	63.5	66	96.2	65.1	68	2	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	87.0	90	96.2	90.8	94	4	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	72.6	76	96.2	74.7	78	3	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	71.0	74	96.2	78.7	82	10	55-120/24
98-95-3	Nitrobenzene	ND		96.2	63.2	66	96.2	64.8	67	2	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	50.9	53	96.2	52.6	55	3	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	61.7	64	96.2	65.9	69	7	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	71.1	74	96.2	75.3	78	6	64-108/23
85-01-8	Phenanthrene	ND		96.2	71.7	75	96.2	75.9	79	6	66-110/21
129-00-0	Pyrene	ND		96.2	68.9	72	96.2	76.3	79	10	64-113/23
110-86-1	Pyridine	ND		96.2	46.1	48	96.2	45.7	48	1	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	56.5	59	96.2	58.7	61	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	X039600.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
OP55800-MSD	X039601.D	1	04/23/15	ME	04/21/15	OP55800	SX1838
FA23627-3	X039599.D	1	04/22/15	ME	04/21/15	OP55800	SX1838

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23627-1, FA23627-2, FA23627-3, FA23627-11

CAS No.	Surrogate Recoveries	MS	MSD	FA23627-3	Limits
367-12-4	2-Fluorophenol	46%	47%	37%	14-67%
4165-62-2	Phenol-d5	36%	39%	24%	10-50%
118-79-6	2,4,6-Tribromophenol	71%	75%	70%	33-118%
4165-60-0	Nitrobenzene-d5	63%	66%	65%	42-108%
321-60-8	2-Fluorobiphenyl	65%	68%	65%	40-106%
1718-51-0	Terphenyl-d14	75%	81%	80%	39-121%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF1130-MB	FF28572.D	1	04/21/15	EG	n/a	n/a	GFF1130

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-2, FA23627-4, FA23627-6, FA23627-8

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF1131-MB	FF28607.D	1	04/22/15	EG	n/a	n/a	GFF1131

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-6, FA23627-8

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF1130-BS	FF28573.D	1	04/21/15	EG	n/a	n/a	GFF1130
GFF1130-BSD	FF28574.D	1	04/21/15	EG	n/a	n/a	GFF1130

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-2, FA23627-4, FA23627-6, FA23627-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	115	106	127	118	10	62-139/30
74-84-0	Ethane	219	239	109	262	120	9	67-141/30
74-85-1	Ethene	290	322	111	355	122	10	68-141/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF1131-BS	FF28608.D	1	04/22/15	EG	n/a	n/a	GFF1131
GFF1131-BSD	FF28609.D	1	04/22/15	EG	n/a	n/a	GFF1131

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-6, FA23627-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	130	120	127	118	2	62-139/30

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA23529-21MS	FF28591.D	10	04/21/15	EG	n/a	n/a	GFF1130
FA23529-21	FF28585.D	1	04/21/15	EG	n/a	n/a	GFF1130
FA23529-21	FF28587.D	10	04/21/15	EG	n/a	n/a	GFF1130

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-2, FA23627-4, FA23627-6, FA23627-8

CAS No.	Compound	FA23529-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	8160 [a]		1080	9350	110	62-139
74-84-0	Ethane	0.98	I	2190	2710	124	67-141
74-85-1	Ethene	1.0 U		2900	3660	126	68-141

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA23614-2MS	FF28626.D	1	04/22/15	EG	n/a	n/a	GFF1131
FA23614-2	FF28622.D	1	04/22/15	EG	n/a	n/a	GFF1131

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-6, FA23627-8

CAS No.	Compound	FA23614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.17	J	108	93.3	86	62-139

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA23529-21DUP	FF28595.D	10	04/21/15	EG	n/a	n/a	GFF1130
FA23529-21	FF28585.D	1	04/21/15	EG	n/a	n/a	GFF1130
FA23529-21	FF28587.D	10	04/21/15	EG	n/a	n/a	GFF1130

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-2, FA23627-4, FA23627-6, FA23627-8

CAS No.	Compound	FA23529-21 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	8160 [a]		10900		29	30
74-84-0	Ethane	0.98	I	ND		0	30
74-85-1	Ethene	1.0 U		ND		nc	30

(a) Result is from Run #2.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA23627
Account: ERMNCR ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA23614-2DUP	FF28629.D	1	04/22/15	EG	n/a	n/a	GFF1131
FA23614-2	FF28622.D	1	04/22/15	EG	n/a	n/a	GFF1131

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA23627-6, FA23627-8

CAS No.	Compound	FA23614-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.17	J	0.17	J	0	30

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA23627
Account: ERMNCR - ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN66000	5.0	0.0	mg/l	250	247	98.6	90-113%
Total Organic Carbon	GP25846/GN65991	1.0	0.0	mg/l	15	15.7	104.7	90-110%

Associated Samples:
Batch GN66000: FA23627-2, FA23627-4, FA23627-6, FA23627-7, FA23627-8, FA23627-9
Batch GP25846: FA23627-1, FA23627-2, FA23627-3, FA23627-4, FA23627-5, FA23627-6, FA23627-7
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA23627
Account: ERMNCR - ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN66000	FA23509-25	mg/l	6.6	5.7	14.6	0-20%
Total Organic Carbon	GP25846/GN65991	FA23627-1	mg/l	301	302	0.3	0-20%

Associated Samples:
Batch GN66000: FA23627-2, FA23627-4, FA23627-6, FA23627-7, FA23627-8, FA23627-9
Batch GP25846: FA23627-1, FA23627-2, FA23627-3, FA23627-4, FA23627-5, FA23627-6, FA23627-7
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA23627
Account: ERMNCR - ERM
Project: Former Abbott Labs; 16000 Joy St, Laurinburg, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP25846/GN65991	FA23627-1	mg/l	301	15	309	53.3(a)	90-110%

Associated Samples:
Batch GP25846: FA23627-1, FA23627-2, FA23627-3, FA23627-4, FA23627-5, FA23627-6, FA23627-7
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Appendix C

Historical VOC Analytical Results at Solvent Plume Wells (Table C.1)

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-100A	10/30/02	6,500	<1,000	<1,000	1,400	<1,000	<1,000	<1,000	31,000	<5,000	10,000	<1,000	<5,000	<1,000	<1,000	<1,000	15,000	<1,000	<1,000	<2,000	200,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	5,300	<1,000	150,000	<1,000	27,000	NA	<1,000
MW-100A	02/04/03	5,000	<500	<500	1,000	<500	<500	350 J	19,000	<2,500	<2,500	<500	<2,500	<500	<500	<500	14,000	<500	<500	<1,000	42,000	<500	<500	<500	<500	<500	<500	4,700	<500	120,000	<500	32,000	<2,500	<500
MW-100A	04/01/03	5,900	<1,000	<1,000	1,200	<1,000	<1,000	<1,000	<5,000	<5,000	<5,000	<1,000	<5,000	<1,000	<1,000	<1,000	14,000	<1,000	<1,000	<2,000	42,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	5,400	<1,000	120,000	<1,000	37,000	<5,000J	<1,000
MW-100A	06/01/03	5,800 J	<500	<500	<500	<500	<500	250 J	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	18,000	<500	<500	<1,000	31,000	<500	<500J	<500	<500	<500	<500	4,600	<500	100,000	<500	30,000	<2,500J	<500
MW-100A	09/09/03	5,300	<500	<500	940	<500	<500	290 J	18,000	<2,500	<2,500	<500	<2,500	<500	<500	<500	19,000	<500	<500	<1,000	26,000	<500	<500	<500	<500	<500	<500	3,900	<500	82,000	<500	18,000	<2,500	<500
MW-100A	12/03/03	6,000	<500	<500	1,100	250 J	<500	380 J	<2,500	<2,500	16,000	<500	<2,500	<500	260 J	<500	29,000	<500	<500	<1,000	20,000	<500	<500	<500J	<500	<500	<500	4,600	<500	70,000	<500	33,000	<2,500J	<500
MW-100A	05/12/04	1,600	<50	53	350	<50	<50	180	8,200	110 J	740	<50	<250	<50	130	<50J	31,000	<50	<50	51 J	14,000	<50	190	<50	<50	<50	54	2,700	<50	32,000	<50	6,200	<250	<50
MW-100A	09/08/04	3,700	<500	<500	1,000	<500	<500	<500	5,800	<2,500	<2,500	<500	<2,500	<500	<500	<500	55,000	<500	<500	<1,000	13,000	<500	550	<500	<500	<500	<500	4,100	<500	37,000	<500	59,000	<2,500	<500
MW-100A	12/01/04	2,900	<100	89 J	810	<100	<100	210	<5,000	<500	<500	<100	<500	<100	170	<100	66,000	<100	<100	<200	6,800	<100	<100	<100	<100	<100	68 J	3,200	<100	18,000	<100	28,000	<500	120
MW-100A	06/08/05	3,600	<100	<100	960	<100	<100	200	3,800	<500	<500	<100	<500	<100	140	<100	63,000	350	<100	<200	6,300 J	<100	<100	<100	<100	<100	73 J	3,400	<100	15,000	<100	37,000	<500	150
MW-100A	12/19/05	4,300 J	<500	<500	<500	<500	<500	<500	6,000	<2,500	<2,500	<500	<2,500	<500	<500	<500	77,000	<500	<500	<1,000	4,700	<500	<500	<500	<500	<500	<500	5,400	1,800	14,000	<500	23,000 J	<2,500	380 J
MW-100A	03/14/06	3,500	<500	<500	960	<500	<500	<500	2,900	<2,500	<2,500	<500	<2,500	<500	<500	<500	71,000	<2,500	<500	<1,000	2,500	<500	<500	<500	<500	<500	<500	4,400	<500	7,400	<500	30,000	<2,500	<500
MW-100A	06/13/06	2,800	<500	<500	810	<500	<500	<500	5,700	<2,500	<2,500	<500	<2,500	<500	<500	<500	58,000	<2,500	<500	<1,000	3,100	<500	<500	<500	<500	<500	<500	3,700	<500	11,000	<500	25,000	<2,500	<500
MW-100A	09/01/06	1,800	<500	<500	1,200	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	55,000	<2,500	<500	<1,000	34,000	<500	<500	<500	<500	<500	<500	3,800	<500	32,000	<500	18,000	<2,500	<500
MW-100A	04/02/07	2,200	<500	<500	910	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	70,000	<2,500	<500	<1,000	3,100	<500	<500	<500	<500	<500	<500	3,900	<500	7,300	<500	17,000	<2,500	<500
MW-100A	10/29/07	2,100	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	59,000	<2,500	<500	<1,000	2,600	<500	<500	<500	<500	<500	<500	3,900	<500	6,600	<500	26,000	<2,500	<500
MW-100A	04/22/08	1,800	NA	<500	760	<500	NA	<500	4,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	58,000	<2,500	<500	<1,000	870	<500	<500	<500	<500	<500	<500	3,800	<500	<500	<500	23,000	<2,500	<500
MW-100A	10/27/08	1,300	NA	<500	510	<500	NA	<500	6,600	<2,500	<2,500	<500	<2,500	<500	<500	<500	52,000	<2,500	<500	<1,000	1,500	<500	<500	<500	<500	<500	<500	3,300	<500	1,900	<500	21,000	<2,500	<500
MW-100A	04/27/09	1,400	NA	<500	730	<500	NA	<500	4,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	50,000	<2,500	<500	<1,000	1,300	<500	<500	<500	<500	<500	<500	3,500	<500	620	<500	28,000	<2,500	<500
MW-100A	11/05/09	720	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	38,000	<2,500	<500	<1,000	920	<500	<500	<500	<500	<500	<500	2,300	<500	3,200	<500	5,200	<2,500	<500
MW-100A	05/05/10	880	NA	<100	<100	<100	NA	130	5,500	<500	2,800	<100	<500	<100	<100	<100	44,000	<500	<100	<200	440	<100	<100	<100	<100	<100	<100	2,600	<100	1,300	<100	27,000	<500	160
MW-100A	10/12/10	630	<500	<500	600	<500	<500	<500	4,200	<2,500	<2,500	<500	<2,500	<500	<500	<500	38,000	<2,500	<500	<1,000	790	<500	<500	<500	<500	<500	<500	2,400	<500	<500	<500	22,000	<2,500	<500
MW-100A	12/02/10	<500	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	38,000	<2,500	<500	<1,000	1,400	<500	<500	<500	<500	<500	<500	2,400	<500	<500	<500	14,000	<2,500	<500
MW-100A	01/25/11	640	<500	<500	540	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	36,000	<2,500	<500	<1,000	5,400	<500	<500	<500	<500	<500	<500	2,500	<500	<500	<500	18,000	<2,500	<500
MW-100A	04/11/11	1,600	<100	<100	770	<100	<100	200	<500	<500	<500	<100	<500	<100	180	<100	51,000	<500	<100	<200	21,000	<100	<100	<100	<100	<100	<100	2,900	<100	810	<100	25,000	<500	110
MW-100A	08/17/11	1,700	<100	<100	750	<100	<100	190	1,400	<500	<500	<100	<500	<100	200	<100	48,000	<500	<100	<200	20,000	<100	<100	<100	120	<100	<100	2,500	320	940	<100	18,000	<500	<100
MW-100A	10/05/11	2,000	<100	<100	740	<100	<100	170	<500	<500	<500	<100	<500	<100	240	<100	50,000	<500	<100	<200	27,000	<100	<100	<100	<100	<100	<100	2,600	<100	880	<100	20,000	<500	<100
MW-100A	05/17/12	1,200	<20	91	750	<20	<20	120	<100	<100	<100	<20	<100	<20	160	<20	40,000	<100	22	68	1,800	<20	<20	<20	22	<20	37	2,600	22	80	<20	22,000	<100	81
MW-100A	11/07/12	1,100	<50	81	660	<50	<50	100	<250	<250	<250	<50	<250	<50	160	<50	47,000	<250	<50	50	1,900	<50	<50	<50	<50	<50	<50	2,000	<50	69	<50	17,000	<250	62
MW-100A	05/07/13	791	4.19	87.47	597.5	<1	4.02	90.8	3,459	101.32	518	16.93	<5	<1	149.3	<1	41,265	148.33	21.35	70.29	813	<1	7.18	<1	22.06	4.58	36.45	2,058	21.73	63.12	<1	16,215	5.01	115.12
MW-100A	10/13/13	610	<50	99	600	<50	<50	100	3,400	<250	370	22	<250	<50	130	<50	48,000	<250	17	48	<250	<50	<50	<50	18	<50	27	2,100	<50	35	<50	17,000	<100	92
MW-100A	04/29/14	880	<50	110	<50	<50	<50	120	<250	<250	520	21 J	<250	<50	160	<50	49,000	<250	20 J	65	<250	<50	<50	<50	21 J	<50	26 J	2,300	<50	25	<50	18,000	<100	90
MW-100A	11/12/14	580	<50	87	570	<50	<50	87	<250	<250	420	17 J	<250	<50	110	<50	45,000	<250	15 J	44 J	260	<50	<50	<50	14 J	<50	<50	1,700	<50	25	<50	12,000	<100	69
MW-100A	04/15/15	720	<100	110	640	<100	<100	110	<500	<500	530	<50	<500	<100	140	<100	41,000	<500	<50	64 J	<500	<100	<100	<100	<50	<100	<100	1,800	<100	<50	<100	13,000	<200	120
MW-100B	10/30/02	8,000	<1,000	<1,000	2,000	<1,000	<1,000	<1,000	27,000	<5,000	13,000	<1,000	<5,000	<1,000	<1,000	<1,000	12,000	<1,000	<1,000	<2,000	230,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	6,900	<1,000	190,000	<1,000	35,000	NA	<1,000
MW-100B	02/04/03	6,100	<500	<500	1,300	<500	<500	400 J	12,000	<2,500	<2,500	<500	<2,500	<500	290 J	<500	10,000	<500	<500	<1,000	54,000	<500	<500	<500	<500	<500	210 J	5,700	<500	160,000	<500	36,000	<2,500	<500
MW-100B	04/01/03	3,100	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<5,000	<5,000	<5,000	<1,000	<5,000	<1,000	<1,000	<1,000	15,000	<1,000	<1,000	<2,000	31,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	3,400	<1,000	65,000	<1,000	9,200	<5,000J	<1,000
MW-100B	06/01/03	6,100	<1,000	<1,000	1,200	<1,000	<1,000	<1,000	9,200	<5,000	2,400 J	<1,000	<5,000	<1,000	<1,000	<1,000	14,000	<1,000	<1,000	<2,000	37,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	4,900	<1,000	120,000	<1,000	34,000	<5,000	<1,000
MW-100B	09/09/03	6,900	<500	<500	1,500	<500	<500	420 J	9,600	<2,500	<2,500	<500	<2,500	<500	270 J	<500	19,000	<500	<500	<1,000	46,000	<500	<500	<500	<500	<500	<500	5,900	<500	120,000	<500	27,000	<2,500	<500
MW-100B	12/03/03	6,300	<500	<500	1,700	<500	<500	400 J	<2,500	<2,500	24,000 J	<500	<2,500	<500	350 J	<500	30,000	<500	<500	<1,000	48,000	<500	<500	<500J	<500	<500	<500	5,800	<500	100,000	<500	46,000	<2,500J	<500
MW-100B	05/12/04	4,100	<100	<100	1,800	<100	<100	250	4,800	<500	<500	<100	<500	<100	280	<100J	45,000	200	<100	100 J	60,000	<100	<100	<100	<100	<100	200	5,400	<100	98,000	<100	80,000	<500	<100
MW-100B	09/08/04	4,300	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	59,000	<500	<500	<1,000	20,000	<500	550	<500	<500	<500	<500	4,900	<500	50,000	<500	71,000	<2,500	<500
MW-100B	12/01/04	2,300	<500	<500	1,400	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	310 J	<500	59,000	<500	<500	<1,000	68,000	<500	<500	<500	<500	<500	<500	4,200	<500	64,000	<500	28,000	<2,500	<500
MW-100B	06/08/05	2,800	<200	<200	2,200	<200	<200	340	1,900	<1,000	<1,000	<200	<1,000	<200	340	<200	41,000	640	<200	<400	75,000 J	<200	<200	<200	<200	<200	<200	4,400	<200	43,000	<200	32,000	<1,000	<200
MW-100B	12/19/05	3,300 J	<500	<500	1,500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	69,000	<500	<500	<1,000	27,000	<500	<500	<500	<500	<500	<500	5,300	1,200	29,000	<500	39,000	<2,500	<500
MW-100B	03/14/06	2,900	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	73,000	<2,500	<500	<1,000	12,000	<500	<500	<500	<500	<500	<500	4,300	<500	13,000	<500	33,000	<2,500	<500
MW-100B	06/13/06	2,900	<500	<500	960	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	61,000	<2,500	<500	<1,000	10,000	<500	<500	<500	<500	<500	<500	4,200	<500	21,000	<500	28,000	<2,500	<500
MW-100B	09/01/06	2,400	<500	<500	840	<500	<500	<500	5,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	65,000	<2,500	<500	<1,000	1,700	<500	<500	<500	<500	<500	<500	3,600	<500	1,900	<500	26,000	<2,500	<500
MW-100B	04/02/07	2,100	<500	<500	1,000	<500	<500	<500	4,900	<2,500	<2,500	<500	<2,500	<500	<500	<500	67,000	<2,500	<500	<1,000	1,700	<500	<500	<500	<500	<500	<500	3,800	<500	3,100	<500	27,000	<2,500	<500
MW-100B	10/29/07	1,800	<500	<500	1,400	<500	<500	<500	2,800	<2,500	<2,500	<500	<2,500	<500	<500	<500	61,000	<2,500	<500	<1,000	28,000	<500	<500	<500	<500	<500	<500	4,600	<500	27,000	<500	26,000	<2,500	<500

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-100B	04/14/08	970	NA	<500	790	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	56,000	<2,500	<500	<1,000	32,000	<500	<500	<500	<500	<500	<500	3,300	<500	19,000	<500	6,400	<2,500	<500
MW-100B	10/27/08	1,200	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	55,000	<2,500	<500	<1,000	3,800	<500	<500	<500	<500	<500	<500	3,500	<500	7,800	<500	4,300	<2,500	<500
MW-100B	04/27/09	1,300	NA	<500	640	<500	NA	<500	1,000	<2,500	<2,500	<500	<2,500	<500	<500	<500	56,000	<2,500	<500	<1,000	2,000	<500	<500	<500	<500	<500	<500	3,800	<500	4,100	<500	12,000	<2,500	<500
MW-100B	11/05/09	870	NA	<500	680	<500	NA	<500	4,400	<2,500	<2,500	<500	<2,500	<500	<500	<500	47,000	<2,500	<500	<1,000	890	<500	<500	<500	<500	<500	<500	2,400	<500	<500	<500	25,000	<2,500	<500
MW-100B	05/06/10	81	NA	30	140	<20	NA	26	5,200	<100	1,300	<20	<100	<20	26	<20	14,000	<100	<20	<40	<40	<20	<20	<20	<20	<20	<20	370	<20	<20	<20	2,900	<100	<20
MW-100B	10/13/10	800	<500	<500	540	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	41,000	<2,500	<500	<1,000	660	<500	<500	<500	<500	<500	<500	2,700	<500	2,300	<500	25,000	<2,500	<500
MW-100B	12/02/10	810	<500	<500	700	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	42,000	<2,500	<500	<1,000	8,200	<500	<500	<500	<500	<500	<500	3,300	<500	13,000	<500	13,000	<2,500	<500
MW-100B	01/25/11	700	<500	<500	640	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	36,000	<2,500	<500	<1,000	9,700	<500	<500	<500	<500	<500	<500	2,900	<500	11,000	<500	14,000	<2,500	<500
MW-100B	04/11/11	1,500	<100	<100	930	<100	<100	250	<500	<500	<500	<100	<500	<100	190	<100	56,000	<500	<100	<200	35,000	<100	<100	<100	<100	<100	120	3,700	<100	8,600	<100	31,000	<500	130
MW-100B	08/17/11	1,700	<100	<100	970	<100	<100	270	510	<500	<500	<100	<500	<100	260	<100	56,000	<500	<100	<200	37,000	<100	<100	<100	<100	<100	<100	3,600	380	7,600	100	22,000	<500	110
MW-100B	10/05/11	2,400	<100	110	1,100	<100	<100	300	<500	<500	<500	<100	<500	<100	340	<100	66,000	<500	<100	<200	57,000	<100	<100	<100	<100	<100	<100	3,600	<100	6,900	<100	25,000	<500	110
MW-100B	05/17/12	1,500	<20	94	900	<20	<20	200	<100	<100	<100	<20	<100	<20	230	<20	52,000	<100	25	74	25,000	<20	<20	<20	25	<20	54	3,300	26	3,600	<20	18,000	<100	110
MW-100B	11/07/12	2,000	<200	<200	1,100	<200	<200	210	<1,000	<1,000	<1,000	<200	<1,000	<200	270	<200	80,000	<1,000	<200	<400	29,000	<200	<200	<200	29	<200	<200	3,700	<200	1,700	<200	26,000	<1,000	<200
MW-100B	05/07/13	1,579	6.7	90.05	941	<5	5.45	147.35	1,630	92.3	326.65	24.25	<25	<5	204.55	<5	62,160	135.45	28.3	89.15	10,925	<5	8.9	<5	29.2	6.45	56.6	3,397	24.95	1,139	<5	21,755	<25	94.95
MW-100B	10/13/13	1,300	<50	100	830	<50	<50	150	<250	<250	<250	29	<250	<50	180	<50	63,000	<250	27	77	5,300	<50	<50	<50	26	<50	44	3,300	<50	1,000	<50	21,000	100	91
MW-100B	04/29/14	1,500	<50	110	<50	<50	<50	180	<250	<250	360	28	<250	<50	210	<50	69,000	<250	29	82	2,500	<50	<50	<50	30	<50	34 J	3,300	<50	430	<50	23,000	<100	86
MW-100B	11/12/14	1,100	<50	98	740	<50	<50	130	<250	<250	<250	22 J	<250	<50	150	<50	57,000	<250	20 J	57	1,100	<50	<50	<50	21 J	<50	<50	2,700	<50	820	<50	16,000	<100	90
MW-100B	04/15/15	1,300	<200	120 J	850	<200	<200	<200	<1000	<1000	<1000	<100	<1000	<200	170 J	<200	61,000	<1000	<100	110 J	<1000	<200	<200	<200	<100	<200	<200	2,800	<200	220	<200	19,000	<400	98 J
MW-101A	10/30/02	37,000	<100	<100	1,200	<100	<100	<100	2,700	<500	<500	120	<500	<100	590	<100	800	<100	89 J	270	20,000	<100	<100	<100	93 J	72 J	470	13,000	48 J	390,000	<100	56,000	NA	<100
MW-101A	02/04/03	20,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<25,000	<25,000	31,000	<5,000	<25,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<10,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	9,400	<5,000	270,000	<5,000	62,000	<25,000	<5,000
MW-101A	04/01/03	22,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<5,000	<5,000	<5,000	<1,000	<5,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<2,000	3,800	<1,000	<1,000	<1,000	<1,000	<1,000	670 J	14,000	<1,000	250,000	<1,000	93,000	<5,000	<1,000
MW-101A	06/01/03	13,000	<500	<500	650	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	340 J	<500	<500	<1,000	4,300	<500	<500	<500	<500	<500	<500	6,500	<500	110,000	<500	42,000	<2,500	<500
MW-101A	09/09/03	11,000	<500	<500	770	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	500 J	<500	<500	<1,000	6,400	<500	<500	<500	<500	<500	<500	4,400	<500	99,000	<500	40,000	<2,500	<500
MW-101A	12/03/03	7,300	<500	<500	<500	<500	<500	<500	<2,500J	<2,500	6,300	<500	<2,500	<500	<500	<500	550	<500	<500	<1,000	5,000	<500	<500	<500	<500	<500	<500	3,100	<500	73,000	<500	14,000	<2,500J	<500
MW-101A	05/12/04	12,000	<500	<500	870	<500	<500	<500	<2,500	<2,500	1,700 J	<500	<2,500	<500	<500	<500J	2,600	<500	<500	<1,000	7,700	<500	<500	<500	<500	<500	<500	5,900	<500	190,000	<500	110,000	<2,500	<500
MW-101A	09/08/04	9,100	<500	<500	570	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	1,200	<500	<500	<1,000	2,000	<500	540	<500	<500	<500	<500	4,100	<500	100,000	<500	92,000	<2,500	<500
MW-101A	12/01/04	5,500	<500	<500	370 J	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	800	<500	<500	<1,000	1,800	<500	<500	<500	<500	<500	<500	2,700	<500	76,000	<500	24,000	<2,500	<500
MW-101A	06/08/05	9,000	<200	<200	630	<200	<200	<200	<1,000	<1,000	2,000	<200	<1,000	<200	<200	<200	1,000	<200	<200	<400	2,900 J	<200	<200	<200	<200	<200	160 J	3,100	<200	62,000	<200	34,000	<1,000	<200
MW-101A	12/19/05	8,200	<500	<500	500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	4,400	<500	<500	<1,000	1,500	<500	<500	<500	<500	<500	<500	4,100	<500	91,000	<500	37,000	<2,500	<500
MW-101A	03/14/06	6,000	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	3,400	<2,500	<500	<1,000	770	<500	<500	<500	<500	<500	<500	3,100	<500	64,000	<500	33,000	<2,500	<500
MW-101A	06/13/06	5,400	<500	<500	520	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	1,900	<2,500	<500	<1,000	800	<500	<500	<500	<500	<500	<500	2,800	<500	66,000	<500	31,000	<2,500	<500
MW-101A	09/01/06	3,600	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	1,100	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,600	<500	36,000	<500	15,000	<2,500	<500
MW-101A	04/02/07	4,500	<500	<500	550	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	5,900	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	2,600	<500	54,000	<500	32,000	<2,500	<500
MW-101A	10/29/07	1,900	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	1,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,000	<500	23,000	<500	16,000	<2,500	<500
MW-101A	04/14/08	4,300	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	9,300	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	2,400	<500	48,000	<500	32,000	<2,500	<500
MW-101A	10/27/08	4,900	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	12,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	2,600	<500	57,000	<500	31,000	<2,500	<500
MW-101A	04/27/09	4,300	NA	<250	420	<250	NA	<250	<1,250	<1,250	<1,250	<250	<1,250	<250	<250	<250	16,000	<1,250	<250	<500	<250	<250	<250	<250	<250	<250	<250	1,600	<250	41,000	<250	34,000	<1,250	<250
MW-101A	11/05/09	5,400	NA	<500	510	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	12,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	2,700	<500	55,000	<500	29,000	<2,500	<500
MW-101A	05/05/10	3,900	NA	<100	<100	<100	NA	<100	<500	<500	2,500	<100	<500	<100	<100	<100	14,000	<500	<100	<200	220	<100	<100	<100	<100	<100	120	2,500	<100	38,000	<100	32,000	<500	<100
MW-101A	10/13/10	3,700	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	5,600	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,900	<500	44,000	<500	23,000	<2,500	<500
MW-101A	12/02/10	1,600	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	15,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,100	<500	13,000	<500	21,000	<2,500	<500
MW-101A	01/25/11	1,000	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	13,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	810	<500	1,600	<500	22,000	<2,500	<500
MW-101A	04/11/11	1,100	<20	<20	140	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	8,300	<100	<20	<40	<20	<20	<20	<20	<20	<20	97	630	<20	790	<20	42,000	<100	<20
MW-101A	08/16/11	720	<20	<20	120	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	1,700	<100	<20	<40	<20	<20	<20	<20	25	<20	49	260	<20	940	<20	22,000	<100	<20
MW-101A	10/05/11	820	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	2,700	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	310	<50	1,800	<50	24,000	<250	<50
MW-101A	05/17/12	160	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	470	<100	<20	<40		<20	<20	<20		<20	40	94	<20	310	<20	9,800	<100	<20
MW-101A	11/07/12	60	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<5	<5	<5	<5	140	<5	<5	<10		<5	<5	<5		<5	10	24	<5	86	<5	3,300	<5	<5
MW-101A	05/07/13	56.45	<5	<5	<5	<5	<5	<5	101.4	<25	<25	<5	<25	<5	5.15	<5	186.45	<25	<5	<10	<5	<5	<5	<5	<5	<5	17.7	29.05	<5	106.45	<5	4,728	<25	<5
MW-101A	10/13/13	31	<10	<10	<10	<10	<10	<10	<50	<50	<50	<5	<50	<10	<10	<10	34	<50	<5	<10	<50	<10	<10	<10	<5	<10	9.4	4.8	<10	32	<10	4,900	<20	<5
MW-101A	04/29/14	19	<10	<10	<10	<10	<10	<10	<50	<50	<50	<5	<50	<10	<10	<10	350	<50	3 J	9.3 J	<50	<10	<10	<10	<5	<10	19	32	<10	100	<10	6,600	<20	<5

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-101A	11/12/14	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<5.0	<50	<10	<10	<10	22	<50	<5.0	<10	<50	<10	<10	<10	<5.0	<10	<10	<5.0	<10	12	<10	2,200	<20	<5.0
MW-101A	04/15/15	3.9	<1.0	0.59 J	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	48	<5.0	0.34 J	1.2	<5.0	<1.0	<1.0	<1.0	0.32 J	<1.0	2.5	2.5	<1.0	5.9	<1.0	710	<2.0	<0.50
MW-101B	10/30/02	18,000	<500	<500	1,800	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	450 J	<500	1,000	<500	<500	<1,000	13,000	<500	<500	<500	<500	<500	330 J	9,000	<500	380,000	<500	39,000	NA	<500
MW-101B	02/04/03	8,700	<500	<500	1,300	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	260 J	380 J	<500	700	<500	<500	<1,000	10,000	<500	<500	<500	<500	<500	<500	4,400	<500J	120,000	<500	34,000	<2,500J	<500
MW-101B	04/01/03	9,100	<1,000	<1,000	1,200	<1,000	<1,000	<1,000	<5,000	<5,000	<5,000	<1,000	<5,000	<1,000	<1,000	<1,000	870 J	<1,000	<1,000	<2,000	11,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	5,000	<1,000	140,000	<1,000	33,000	<5,000J	<1,000
MW-101B	06/01/03	9,800	<500	<500	1,300	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	330 J	<500	900	<500	<500	<1,000	8,300	<500	<500	<500	<500	<500	<500	4,400	<500	130,000	<500	26,000	<2,500	<500
MW-101B	09/09/03	8,800	<500	<500	1,400	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	350 J	<500	1,200	<500	<500	<1,000	10,000	<500	<500	<500	<500	<500	<500	4,600	<500	130,000	<500	21,000	<2,500	<500
MW-101B	12/03/03	7,500	<500	<500	1,400	<500	<500	<500	<2,500	<2,500	19,000 J	<500	<2,500	<500	320 J	<500	1,400	<500	<500	<1,000	8,000	<500	<500	<500J	<500	<500	<500	3,700	<500	94,000	<500	43,000	<2,500J	<500
MW-101B	05/12/04	8,100	<500	<500	1,200	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500J	1,300	<500	<500	<1,000	8,100	<500	<500	<500	<500	<500	<500	4,100	<500	150,000	<500	83,000	<2,500	<500
MW-101B	09/08/04	7,400	<500	<500	620	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	2,100	<500	<500	<1,000	2,300	<500	590	<500	<500	<500	<500	3,500	<500	93,000	<500	73,000	<2,500	<500
MW-101B	12/01/04	8,200 J	<500	<500J	850	<500	<500	<500	<2,500J	<2,500	<2,500J	<500	<2,500	<500J	<500J	<500J	2,300	<500	<500	<1,000	3,600	<500	<500J	<500	<500J	<500	150 J	3,600	<500	99,000	<500	47,000	<2,500J	<500J
MW-101B	06/08/05	8,100	<200	<200	1,100	<200	<200	<200	<1,000	<1,000	<1,000	<200	<1,000	<200	<200	<200	10,000	<200	<200	<400	6,200 J	<200	<200	<200	<200	<200	<200	3,100	<200	79,000	<200	42,000	<1,000	<200
MW-101B	12/19/05	6,200	<500	<500	1,300	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	27,000	<500	<500	<1,000	4,500	<500	<500	<500	<500	<500	<500	3,900	<500	69,000	<500	35,000	<2,500	<500
MW-101B	03/14/06	4,900	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	28,000	<2,500	<500	<1,000	3,000	<500	<500	<500	<500	<500	<500	3,400	<500	58,700	<500	31,200	<2,500	<500
MW-101B	06/13/06	4,900	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	24,000	<2,500	<500	<1,000	2,600	<500	<500	<500	<500	<500	<500	3,400	<500	64,000	<500	29,000	<2,500	<500
MW-101B	09/01/06	4,300	<500	<500	1,100	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	31,000	<2,500	<500	<1,000	2,600	<500	<500	<500	<500	<500	<500	3,100	<500	44,000	<500	29,000	<2,500	<500
MW-101B	04/02/07	3,500	<500	<500	1,200	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	22,000	<2,500	<500	<1,000	2,400	<500	<500	<500	<500	<500	<500	2,800	<500	53,000	<500	29,000	<2,500	<500
MW-101B	10/29/07	3,000	<500	<500	1,200	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	20,000	<2,500	<500	<1,000	2,400	<500	<500	<500	<500	<500	<500	2,700	<500	46,000	<500	28,000	<2,500	<500
MW-101B	04/14/08	2,300	NA	<500	790	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	23,000	<2,500	<500	<1,000	1,700	<500	<500	<500	<500	<500	<500	1,800	<500	28,000	<500	19,000	<2,500	<500
MW-101B	10/27/08	27,000	NA	2,000	<500	550	NA	<500	<2,500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	<2,500	<500	<1,000	1,200	<500	<500	<500	<500	<500	<500	1,800	<500	22,000	<500	20,000	<2,500	<500
MW-101B	04/27/09	640	NA	2,300	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	32,000	<2,500	<500	<1,000	940	<500	<500	<500	<500	<500	<500	1,800	<500	14,000	<500	17,000	<2,500	<500
MW-101B	11/05/09	1,700	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	28,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,200	<500	1,100	<500	14,000	<2,500	<500
MW-101B	05/05/10	1,700	NA	<100	400	<100	NA	<100	<500	<500	870	<100	<500	<100	<100	<100	34,000	<500	<100	<200	240	<100	<100	<100	<100	<100	<100	1,200	<100	1,500	<100	12,000	<500	<100
MW-101B	10/13/10	1,500	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	30,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,400	<500	4,500	<500	14,000	<2,500	<500
MW-101B	12/02/10	1,500	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	29,000	<500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	1,200	<500	1,800	<500	11,000	<2,500	<500
MW-101B	01/25/11	77	<20	<20	26	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	2,800	<20	<20	<40	20	<20	<20	<20	<20	<20	<20	47	<20	<20	<20	300	<20	<20
MW-101B	04/11/11	83	<5	<5	23	<5	<5	<5	<25	<25	<25	<5	<5	<5	<5	<5	2,000	<5	<5	<10	10	<5	<5	<5	<5	<5	<5	71	<5	<5	<5	660	<5	<5
MW-101B	08/16/11	1,500	<20	42	230	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	23,000	<20	<20	<40	52	<20	<20	<20	<20	<20	37	1,100	99	1,300	<20	10,000	<20	<20
MW-101B	10/05/11	770	<20	23	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	8,200	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	560	<20	110	<20	5,600	<20	<20
MW-101B	05/17/12	1,200	<20	31	190	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	16,000	<20	<20	42	<20	<20	<20	<20	<20	<20	50	1,300	<20	360	<20	17,000	<20	<20
MW-101B	11/07/12	610	<10	17	120	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	9,400	<10	12	38	<10	<10	<10	<10	12	<10	47	840	<10	410	<10	13,000	<50	<10
MW-101B	05/07/13	501.6	<5	13.75	100.25	<5	<5	<5	143.2	<25	<25	<5	<25	<5	10.95	<5	8,599	39.25	12.65	40.8	13.55	<5	<5	<5	11.7	<5	60.5	773.7	<5	399.45	<5	17,615	<25	<5
MW-101B	10/13/13	490	<20	13	85	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	9,200	<100	13	38	<100	<20	<20	<20	11	<20	64	750	<20	110	<20	17,000	<40	<10
MW-101B	04/29/14	460	<20	14 J	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	9,100	<100	12	37	<100	<20	<20	<20	11	<20	49	680	<20	40	<20	15,000	<40	<10
MW-101B	11/12/14	0.54 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	120	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	0.64 J	0.31 J	0.54 J	40	<1.0	7.4	<2.0	<0.50
MW-101B	04/14/15	27	<1.0	0.93 J	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	510	<5.0	<0.50	0.58 J	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	2.1	4.2	<1.0	19	<1.0	680	<2.0	<0.50
MW-102A	10/30/02	180	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	51 J	<100	<100	<200	130	<100	<100	<100	<100	<100	<100	220	<100	6,200	<100	3,700	NA	<100
MW-102A	02/04/03	180	<50	<50	48 J	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	86	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	130	<50	3,500	<50	4,600	<250	<50
MW-102A	04/01/03	83	<25	<25	<25	<25	<25	<25	<120	<120	<120	<25	<120	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	67	<25	1,200	<25	970	<120	<25
MW-102A	06/01/03	45	<10	<10	20	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	5.2 J	14	<10	<20	<10	<10	<10J	<10	<10	<10	<10	28	<10	760	<10	4,100	<50J	<10
MW-102A	09/09/03	77	<50	<50	25 J	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	56	<50	<50	<100	60	<50	<50	<50	<50	<50	<50	73	<50	1,700	<50	2,500	<250	<50
MW-102A	12/03/03	<25	<25	<25	<25	<25	<25	<25	<120J	<120	1,500	<25	<120	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	25 J	<25	3,300	<120J	<25
MW-102A	05/12/04	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<100	<20	<20	<20J	<20	<20	<20	<40	100	<20	<20	<20	<20	<20	<20	<20	<20	33	<20	6,500	<100	<20
MW-102A	09/08/04	<10	<10	<10	<10	<10	<10	<10	<50J	<50J	<50	<10	12 J	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10J	<10	<10	<10	<10	<10	25	<10	4,100	<50J	<10
MW-102A	12/01/04	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	22	<10	2,600	<50	<10
MW-102A	06/08/05	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25J	<5	<25	<5	<5	<5	6.5	<5	<5	5.2 J	<5	<5	7.6	6.2	<5	<5	<5	<5	<5	11	<5	1,500	<25	<5
MW-102A	12/19/05	2.8	<1	<1	2.2	<1	<1	<1	8.2	<5	<5	<1	<5	<1	<1	<1	29	1.6	<1	<2	1.6	<1	<1	<1	<1	<1	<1	4.4	<1	44	<1	580	<5	<1
MW-102A	06/14/06	<1	<1	<1	4.4	<1	<1	<1	10	<5	5.3	<1	<5	<1	<1	<1	17	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	1.9	<1	14	<1	1,500	<5	<1
MW-102A	09/01/06	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	8.6	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	14	<5	1,000	<25	<5
MW-102A	04/02/07	23	<5	<5	13	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	61	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	62	<5	920	<5	1,800	<25	<5

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-102A	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	8	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	11	<1	1,400	<5	<1
MW-102A	04/14/08	<1	NA	<1	6	<1	NA	<1	5	<5	11	<1	<5	<1	<1	<1	8	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1	1,400	<5	<1
MW-102A	10/27/08	6	NA	<1	4	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	6	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1,600	<5	<1
MW-102A	04/27/09	<1	NA	<1	13	<1	NA	<1	5	<5	5.2	<1	<5	<1	<1	<1	15	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.4	<1	2,000	<5	<1
MW-102A*	11/04/09	<5	NA	<5	5.8	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	11	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,500	<25	<5
MW-102A	05/05/10	<1	NA	<1	8.2	<1	NA	<1	<5	<5	130	<1	<5	<1	<1	<1	17	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	3.4	<1	1,400	<5	<1
MW-102A	10/13/10	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<100	<20	<20	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	890	<100	<20
MW-102A	12/02/10	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	760	<20	<20
MW-102A	01/25/11	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	19	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1,300	<50	<10
MW-102A	04/11/11	<1	<1	<1	9.2	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	23	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.5	<1	1,900	<5	<1
MW-102A	08/16/11	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	710	<20	<20
MW-102A	10/05/11	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	18	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1,200	<2	<2
MW-102A	05/17/12	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	23	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	920	<2	<2
MW-102A	11/07/12	<1	<1	<1	9.1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	20	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.8	<1	830	<5	<1
MW-102A	05/07/13	<1	<1	<1	15.91	<1	<1	<1	5.93	<5	<5	<1	<5	<1	<1	<1	34.67	59	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.08	<1	710	<5	<1
MW-102A	10/13/13	<1	<1	<1	13	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	25	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	0.27	<1	0.65	<1	580	<2	<0.5
MW-102A	04/29/14	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<1	<10	<2	<2	<2	32	<10	<1	<2	<10	<2	<2	<2	<1	<2	<2	<1	<2	<1	<2	580	<4	<1
MW-102A	11/12/14	<1.0	<1.0	<1.0	12	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	21	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.36 J	<1.0	0.41 J	<1.0	450	<2.0	<0.50
MW-102A	04/14/15	<1.0	<1.0	<1.0	17	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	2.9	<1.0	<1.0	33	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.9	<1.0	1.8	<1.0	300	<2.0	0.59
MW-102B	10/30/02	59 J	<100	<100	70 J	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	75 J	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	7,400	<100	1,600	NA	<100
MW-102B	02/04/03	1,700	<100	<100	270	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	48 J	<100	<100	<200	58 J	<100	<100	<100	<100	<100	46 J	820	<100	31,000	<100	24,000	<500	<100
MW-102B	04/01/03	670	<100	<100	100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	380	<100	11,000	<100	6,900	<500J	<100
MW-102B	06/01/03	900	<100	<100	200	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	<100	<100	<100	<200	100	<100	<100	<100	<100	<100	<100	450	<100	17,000	<100	15,000	<500	<100
MW-102B	09/09/03	740	<100	<100	210	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	75 J	<100	<100	<200	57 J	<100	<100	<100	<100	<100	<100	390	<100	14,000	<100	12,000	<500	<100
MW-102B	12/03/03	480	<100	<100	190	<100	<100	<100	<500	<500	<5,000	<100	<500	<100	<100	<100	57 J	<100	<100	<200	<100	<100	<100	<100J	<100	<100	<100	220	<100	9,100	<100	14,000	<500J	<100
MW-102B	05/12/04	290	<100	<100	160	<100	<100	<100	<500	<500	320 J	<100	<500	<100	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	200	<100	11,000	<100	17,000	<500	<100
MW-102B	09/08/04	290	<50	<50	<50	<50	<50	<50	<250J	<250J	<250	<50	<250	<50	<50	<50	53	<50	<50	<100	<50	<50	<50	<50J	<50	<50	<50	190	<50	10,000	<50	20,000	<250J	<50
MW-102B	12/01/04	310	<50	<50	170	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	60	<50	<50	<100	72	<50	<50	<50	<50	<50	<50	160	<50	10,000	<50	11,000	<250	<50
MW-102B	06/08/05	140	<20	<20	110 J	<20	<20	<20	<100	<100	<100J	<20	<100	<20	<20	<20	33	<20	<20	<40	23	<20	<20	<20	<20	<20	<20	110	<20	5,500	<20	7,900	<100	<20
MW-102B	12/19/05	200	<50	<50	170	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	94	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	150 J	<50	8,800	<50	9,500	<250	<50
MW-102B	06/14/06	110	<50	<50	98	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	730	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	100	<50	5,500	<50	5,800	<250	<50
MW-102B	09/01/06	110	<50	<50	110	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	2,000	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	87	<50	3,300	<50	6,700	<250	<50
MW-102B	04/02/07	97	<50	<50	130	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	3,200	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	110	<50	2,800	<50	7,000	<250	<50
MW-102B	10/29/07	71	<50	<50	120	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	2,400	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	83	<50	2,300	<50	6,700	<250	<50
MW-102B	04/14/08	57	NA	<5	130	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	2,900	<25	<5	<10	<5	<5	<5	<5	<5	<5	7	76	<5	1,100	<5	6,500	<25	<5
MW-102B	10/27/08	41	NA	<5	96	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	2,600	<25	<5	<10	7	<5	<5	<5	<5	<5	8	63	<5	800	<5	3,900	<25	<5
MW-102B	04/27/09	<500	NA	<500	<500	<500	NA	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	2,600	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	<500	<500	550	<500	6,000	<2,500	<500
MW-102B	11/04/09	17	NA	<5	71	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	1,100	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	13	<5	590	<5	3,900	<25	<5
MW-102B	05/05/10	21	NA	<5	100	<5	NA	<5	35	<25	<25	<5	<25	<5	<5	<5	1,400	<25	<5	<10	<10	<5	<5	<5	<5	<5	<5	22	<5	330	<5	4,700	<25	<5
MW-102B	10/13/10	<50	<50	<50	89	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	810	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	480	<50	3,400	<250	<50
MW-102B	12/02/10	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	410	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	78	<50	1,600	<250	<50
MW-102B	01/25/11	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	550	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	3,300	<250	<50
MW-102B	04/11/11	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	1,500	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	810	<10	<10	<10	4,700	<50	<10
MW-102B	08/16/11	21	<10	<10	67	<10	<10	<10	100	<50	71	<10	<10	<10	<10	<10	1,100	<10	<10	<20	<10	<10	<10	<10	11	<10	<10	51	<10	<10	<10	3,700	<50	<10
MW-102B	10/05/11	19	<10	<10	63	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	910	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	54	<10	<10	<10	4,100	<50	<10
MW-102B	05/17/12	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	910	<10	<2	<4	<2	<2	<2	<2	<2	<2	4.3	<2	47	5	<2	3,600	<10	2.5
MW-102B	11/07/12	9.7	<2	<2	79	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	630	<10	<2	<4	<2	<2	<2	<2	2.4	<2	3.5	<2	35	1.2	<2	2,900	<10	<2
MW-102B	05/07/13	6.83	<1	1.28	68.08	<1	<1	<1	23.2	<5	7.57	<1	<5	<1	1.07	<1	451.5	121.34	<1	2.31	<1	<1	<1	<1	<1	<1	3.59	28.33	<1	1.15	<1	2,670	<5	1.76
MW-102B	10/13/13	5.8	<5	<5	69	<5	<5	<5	<25	<25	<25	<2.5	<25	<5	<5	<5	580	<25	<2.5	2.3	<25	<5	<5	<5	<2.5	<5	3.8	36	<5	<2.5	<5	2,500	<10	<2.5
MW-102B	04/29/14	6	<5	<5	<5	<5	<5	<5	<25	<25	<25	<2.5	<25	<5	<5	<5	520	<25	<2.5	2.5 J	<25	<5	<5	<5	<2.5	<5	3.6 J	32	<5	1.8 J	<5	2,300	<10	2.8

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																																
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-102B	11/12/14	3.6	<2.0	1.1 J	31	<2.0	<2.0	<2.0	<10	<10	<10	<1.0	<10	<2.0	<2.0	<2.0	420	<10	<1.0	1.4 J	<10	<2.0	<2.0	<2.0	<1.0	<2.0	2.3	21	<2.0	<1.0	<2.0	860	<4.0	3.5
MW-102B	04/14/15	5	<1.0	1.3	33	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	510	<5.0	0.71	2	<5.0	<1.0	<1.0	<1.0	0.64	<1.0	1.5	27	<1.0	0.85	<1.0	1,200	<2.0	3
MW-102C	10/30/02	74	<50	<50	94	<50	<50	31 J	<250	<250	<250	<50	<250	<50	25 J	<50	91	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	43 J	<50	8,000	<50	2,500	NA	<50
MW-102C	02/04/03	<50	<50	<50	51	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	410	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	110	<50	4,200	<50	1,800	<250	<50
MW-102C	04/01/03	91	<10	<10	26	<10	<10	<10	<50	<50	<50	<10	<50	<10	5.2 J	<10	380	<10	<10	<20	<10	<10	<10	<10	<10	<10	5.9 J	66	<10	2,100	<10	1,600	<50	<10
MW-102C	06/01/03	17	<5	<5	12	<5	<5	3.2 J	26	<25	140	<5	<25	<5	3.1 J	<5	130	<5	<5	<10	<5	<5	<5J	<5	<5	<5	<5	6.7	<5	920	<5	530	<25J	<5
MW-102C	09/09/03	49	<10	<10	42	<10	<10	7.9 J	<50	<50	<50	<10	<50	<10	7.7 J	<10	100	<10	<10	<20	8.1 J	<10	<10	<10	<10	<10	<10	16	<10	2,600	<10	990	<50	<10
MW-102C	12/03/03	55	<10	<10	<10	<10	<10	11	<50J	<50	570	<10	<50	<10	11	<10	230	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	17	<10	2,300	<10	1,200	<50J	<10
MW-102C	05/12/04	34	<10	<10	67	<10	<10	<10	24 J	<50	190	<10	<50	<10	<10	<10	240	24	<10	<20	<10	<10	<10	<10	<10	<10	<10	25	<10	2,700	<10	2,300	<50	<10
MW-102C	09/08/04	50	<20	<20	82	<20	<20	<20	<100J	<100J	<100	<20	<100	<20	<20	<20	210	<20	<20	<40	<20	<20	<20	<20J	<20	<20	<20	17 J	<20	3,500	<20	3,200	<100J	<20
MW-102C	12/01/04	39	<20	<20	82	<20	<20	<20	<100	<100	<100	<20	<100	<20	<20	<20	220	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	13 J	<20	3,700	<20	1,800	<100	<20
MW-102C	06/08/05	26	<20	<20	<20	<20	<20	<20	<100	<100	<100J	<20	<100	<20	<20	<20	240	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	3,900	<20	1,800	<100	<20
MW-102C	12/19/05	<5	<5	<5	46	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	300	5.8	<5	<10	<5	<5	<5	<5	<5	<5	<5	8.3 J	<5	2,100	<5	1,000	<25	<5
MW-102C	06/16/06	32	<5	<5	110	<5	<5	<5	32	<25	27	<5	<25	<5	7.2	<5	460	<25	<5	<10	<5	<5	<5	<5	<5	<5	5.9	21	<5	6,800	<5	3,300	<25	<5
MW-102C	09/01/06	<50	<50	<50	130	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	640	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	5,800	<50	2,400	<250	<50
MW-102C	04/02/07	12	<10	<10	61	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	870	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	11	<10	2,500	<10	1,500	<50	<10
MW-102C	10/29/07	<100	<100	<100	380	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	5,400	<500	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	12,000	<100	5,800	<500	<100
MW-102C	04/14/08	<100	NA	<100	170	<100	NA	<100	<500	<500	<500	<100	<500	<100	<100	<100	2,400	<500	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	4,700	<100	2,500	<500	<100
MW-102C	10/27/08	<100	NA	<100	200	<100	NA	<100	<500	<500	<500	<100	<500	<100	<100	<100	4,800	<500	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	6,000	<100	3,600	<500	<100
MW-102C	04/27/09	61	NA	<50	420	<50	NA	<50	<250	<250	<250	<50	<250	<50	<50	<50	14,000	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	110	<50	6,900	<50	4,400	<250	<50
MW-102C*	11/04/09	84	NA	<50	550	<50	NA	<50	<250	<250	<250	<50	<250	<50	<50	<50	24,000	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	150	<50	790	<50	8,900	<250	<50
MW-102C	05/05/10	110	NA	<100	900	<100	NA	<100	<500	<500	<500	<100	<500	<100	<100	<100	37,000	<500	<100	<200	<200	<100	<100	<100	<100	<100	<100	250	<100	3,000	<100	9,700	<500	<100
MW-102C	10/13/10	<500	<500	<500	720	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	25,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	<500	<500	5,900	<500	9,600	<2,500	<500
MW-102C	12/02/10	<500	<500	<500	1,200	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	46,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	<500	<500	2,000	<500	13,000	<2,500	<500
MW-102C	01/25/11	<500	<500	<500	950	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	<500	<500	<500	36,000	<2,500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	570	<500	8,000	<500	9,700	<2,500	<500
MW-102C	04/11/11	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	30,000	<500	<100	<200	<100	<100	<100	<100	<100	<100	<100	690	<100	13,000	<100	11,000	<500	<100
MW-102C	08/16/11	140	<100	<100	1,200	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	32,000	<500	<100	<200	110	<100	<100	<100	<100	<100	<100	740	160	21,000	<100	9,800	<500	<100
MW-102C	10/05/11	<20	<20	<20	1,100	<20	<20	<20	<100	<100	<100	<20	<100	<20	59	<20	29,000	<100	<20	<40	130	<20	<20	<20	<20	<20	27	1,000	<20	21,000	<20	10,000	<100	<20
MW-102C	05/17/12	<20	<20	<20	1,200	<20	<20	<20	<100	<100	<100	<20	<100	<20	56	<20	44,000	<100	<20	<40	170	<20	<20	<20	20	<20	<20	700	<20	4,700	<20	9,500	<100	<20
MW-102C	11/07/12	160	<50	<50	1,500	<50	<50	<50	<250	<250	<250	<50	<250	<50	59	<50	48,000	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	1,500	<50	12,000	<50	14,000	<250	<50
MW-102C	05/07/13	104.5	<50	<50	1,023	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	37,880	<250	<50	<100	112	<50	<50	<50	<50	<50	<50	1,126	<50	5,345	<50	9,050	<250	<50
MW-102C	10/13/13	100	<50	<50	1,200	<50	<50	<50	<250	<250	<250	13	<250	<50	57	<50	48,000	<250	10	32	<250	<50	<50	<50	9.1	<50	32	1,700	<50	5,100	<50	13,000	<100	<25
MW-102C	04/29/14	74	<20	<20	790	<20	<20	<20	<100	<100	<100	8.6 J	<100	<20	32	<20	33,000	<100	9.3 J	26	110	<20	<20	<20	<10	<20	21	1,200	<20	1,800	<20	10,000	<40	<10
MW-102C	11/12/14	100	<50	<50	1,100	<50	<50	<50	<250	<250	<250	<25	<250	<50	35 J	<50	41,000	<250	<25	31 J	310	<50	<50	<50	9.6 J	<50	37 J	1,800	<50	8,300	<50	10,000	<100	<25
MW-102C (	04/14/15	79	<50	<50	980	<50	<50	<50	<250	<250	<250	<25	<250	<50	30 J	<50	38,000	<250	<25	<50	360	<50	<50	<50	<25	<50	<50	1,300	<50	5,400	<50	8,100	<100	<25
MW-103A	10/30/02	<1	<1	0.44 J	<1	<1	<1	0.91 J	<5	<5	<5	0.59 J	<5	<1	2.8	1.6	88	19	<1	<2	0.92 J	7.8	<1	<1	<1	<1	0.63 J	0.61 J	<1	36	1.3	5,700	NA	<1
MW-103A	02/04/03	<500	<500	<500	<500	<500	<500	<500	<2,500	<2,500	<2,500	<500	<2,500	280 J	<500	<500	290 J	<500	<500	<1,000	<500	<500	<500	<500	<500	<500	<500	<500	<500J	<500	<500	25,000	<2,500J	<500
MW-103A	04/01/03	<250	<250	<250	<250	<250	<250	<250	<1,200	<1,200	<1,200	<250	<1,200	<250	<250	<250	540	<250	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	16,000	<1,200	<250
MW-103A	06/01/03	<50	<50	<50	47 J	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	720	60	<50	<100	<50	<50	<50J	<50	<50	<50	<50	<50	<50	72	<50	12,000	<250J	<50
MW-103A	09/09/03	<100	<100	<100	82 J	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	1,000	<100	<100	<200	67 J	<100	<100	<100	<100	<100	<100	<100	<100	230	<100	25,000	<500	67 J
MW-103A	12/03/03	<100	<100	<100	<100	<100	<100	<100	<500J	<500	5,400	<100	<500	<100	<100	<100	1,100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	88 J	<100	12,000	<500J	60 J
MW-103A	05/12/04	<50	<50	<50	61	<50	<50	<50	<250	<250	810	<50	<250	<50	<50	<50	1,800	130	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	52	<50	21,000	<250	61
MW-103A	09/08/04	<20	<20	14 J	<20	<20	<20	30	<100J	<100J	<100	<20	<100	<20	10 J	<20	3,900	<20	<20	<40	<20	<20	<20	<20J	<20	<20	<20	12 J	<20	27	<20	9,800	<100J	35
MW-103A	12/01/04	<100	<100	<100	<100	<100	<100	<100	<500	<500	460 J	<100	<500	<100	<100	<100	1,700	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	<100	17,000	<500	<100
MW-103A	06/08/05	<10	<10	<10	15 J	<10	<10	<10	<50	<50	<50J	<10	<50	<10	<10	<10	720	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	35	<10	2,800	<50	18
MW-103A	12/19/05	<5	<5	<5	6.4	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	380	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	5.7	23	<5	1,900	<25	8.7
MW-103A	06/14/06	<5	<5	<5	9.9	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	360	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	8.4	<5	9.2	<5	4,800	<25	8.3
MW-103A	09/01/06	<5	<5	<5	47	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	320	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	27	<5	13,000	<25	20
MW-103A	04/02/07	<5	<5	<5	25	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	230	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	20	<5	9,600	<25	18
MW-103A	10/29/07	<5	<5	<5	27	<5	<5	11	<25	<25	<25	<5	<25	<5	<5	<5	670	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	15	<5	56	<5	6,600	<25	41

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-103A	04/14/08	<5	NA	<5	40	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	250	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	22	<5	13,000	<25	13
MW-103A	10/27/08	<5	NA	<5	15	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	210	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	14	<5	4,900	<25	11
MW-103A	04/28/09	<5	NA	<5	19	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	130	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	4,500	<25	8
MW-103A	11/04/09	<20	NA	<20	<20	<20	NA	<20	<100	<100	<100	<20	<100	<20	<20	<20	220	<100	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	29	<20	21,000	<100	<20
MW-103A	05/05/10	<50	NA	<50	<50	<50	NA	<50	<250	<250	<250	<50	<250	<50	<50	<50	140	<250	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	14,000	<250	<50
MW-103A	10/12/10	<50	<50	<50	100	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	71	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	54	<50	31,000	<250	<50
MW-103A	01/25/11	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	210	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	5,700	<250	<50
MW-103A	04/11/11	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	180	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	64	<50	24,000	<250	<50
MW-103A	08/15/11	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	230	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	78	<50	35,000	<250	<50
MW-103A	10/04/11	<100	<100	<100	100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	160	<500	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	31,000	<500	<100
MW-103A	05/17/12	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<100	<20	<20	<20	200	<100	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	17,000	<100	<20
MW-103A	11/07/12	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	180	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	79	<50	36,000	<250	<50
MW-103A	05/07/13	<1	<1	1.9	<1	<1	<1	1.56	<5	<5	<5	<1	<5	<1	4.87	<1	187.68	102.33	<1	<2	<1	<1	<1	<1	<1	<1	1.5	4.04	<1	40.04	<1	23,020	<5	8.04
MW-103A	10/13/13	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	170	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	12	<20	26	<20	15,000	<40	<10
MW-103A	04/29/14	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	130	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	<10	<20	33	<20	18,000	<40	7.6 J
MW-103A	11/13/14	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<25	<250	<50	<50	<50	140	<250	<25	<50	<250	<50	<50	<50	<25	<50	<50	<25	<50	43	<50	21,000	<100	<25
MW-103A	04/14/15	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<25	<250	<50	<50	<50	140	<250	<25	<50	<250	<50	<50	<50	<25	<50	<50	18 J	<50	<25	<50	12,000	<100	<25
MW-103B	10/30/02	<1	<1	0.47 J	<1	<1	<1	1.1	<5	<5	<5	<1	<5	<1	3.3	1.8	99	14	<1	<2	1.1	7.8	<1	<1	<1	<1	0.57 J	1.2	<1	34	0.83 J	8,100	NA	<1
MW-103B	02/04/03	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	26 J	<50	<50	160	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	83	<50	15,000	<250	<50
MW-103B	04/01/03	110	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	190	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	82	<50	1,300	<50	1,800	<250	<50
MW-103B	06/01/03	<50	<50	<50	59	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	580	49 J	<50	<100	<50	<50	<50J	<50	<50	<50	<50	<50	<50	71	<50	15,000	<250J	<50
MW-103B	09/09/03	<100	<100	<100	100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	750	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	150	<100	17,000	<500	<100
MW-103B	12/03/03	<100	<100	<100	<100	<100	<100	<100	<500J	<500	9,700	<100	<500	<100	<100	<100	600	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	110	<100	21,000	<500J	<100
MW-103B	05/12/04	<100	<100	<100	110	<100	<100	<100	<500	<500	1,900	<100	<500	<100	<100	<100	970	<100	<100	<200	110	<100	<100	<100	<100	<100	<100	130	<100	100	<100	50,000	<500	<100
MW-103B	09/08/04	<200	<200	<200	<200	<200	<200	<200	<1,000J	<1,000J	<1,000	<200	<1,000	<200	<200	<200	2,100	<200	<200	<400	<200	<200	<200	<200J	<200	<200	<200	<200	<200	<200	<200	34,000	<1,000J	<200
MW-103B	12/01/04	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	990	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	79 J	<100	26,000	<500	<100
MW-103B	06/08/05	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100J	<20	<100	<20	<20	<20	690	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	65	<20	18,000	<100	23
MW-103B	12/19/05	<5	<5	<5	41	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	690	38	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	6.7	53	<5	12,000	<25	27
MW-103B	06/14/06	<5	<5	<5	37	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	440	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	5.2	<5	77	<1	16,000	<25	12
MW-103B	09/01/06	<5	<5	<5	50	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	420	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	41	<5	9,900	<25	18
MW-103B	04/02/07	<5	<5	<5	90	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	410	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	39	<5	16,000	<25	21
MW-103B	10/29/07	<5	<5	<5	40	<5	<5	8	<25	<25	<25	<5	<25	<5	<5	<5	550	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	9	<5	49	<5	16,000	<25	27
MW-103B	04/14/08	<5	NA	<5	65	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	360	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	35	<5	17,000	<25	21
MW-103B	10/28/08	<5	NA	<5	42	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	270	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	41	<5	16,000	<25	<5
MW-103B	04/28/09	<5	NA	<5	51	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	240	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	31	<5	12,000	<25	11
MW-103B	11/04/09	<5	NA	<5	31	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	290	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	6.6	<5	27	<5	8,800	<25	12
MW-103B	05/05/10	<50	NA	<50	<50	<50	NA	<50	<250	<250	<250	<50	<250	<50	<50	<50	210	<250	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	7,200	<250	<50
MW-103B	10/12/10	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	160	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	7,600	<250	<50
MW-103B	12/02/10	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	230	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	7,200	<100	<100
MW-103B	01/25/11	<50	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	160	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	4,600	<50	<50
MW-103B	04/11/11	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	210	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	32	<20	9,400	<20	<20
MW-103B	08/15/11	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	170	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	36	<20	14,000	<20	<20
MW-103B	10/04/11	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	180	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	41	<20	15,000	<20	<20
MW-103B	05/17/12	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	<20	250	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	20	<20	8,600	<20	14
MW-103B	11/07/12	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	170	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	7.5	<10	63	<10	16,000	<10	<10
MW-103B	05/07/13	<1	<1	1.63	<1	<1	<1	1.89	<5	<5	<5	<1	<5	<1	2.71	<1	158.43	80.18	<1	<2	<1	<1	<1	<1	<1	<1	<1	2.52	<1	35.36	<1	14,615	<5	7.54
MW-103B	10/13/13	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<5	<50	<10	<10	<10	160	<50	<5	<10	<50	<10	<10	<10	<5	<10	<10	3.5	<10	22	<10	10,000	<20	11
MW-103B	04/29/14	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<5	<50	<10	<10	<10	140	<50	<5	<10	<50	<10	<10	<10	<5	<10	<10	<5	<10	16	<10	7,300	<20	10
MW-103B	11/13/14	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	160	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	8.2 J	<20	16	<20	6,900	<40	<10
MW-103B	04/14/15	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	1.9	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	0.64 J	<1.0	150	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	1.1	0.72 J	8.1	<1.0	3,000	<2.0	13

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-103C	10/30/02	<1	<1	1.2	<1	<1	<1	**3.5**	<5	<5	<5	<1	<5	<1	4.6	<1	**300**	8.4	<1	<2	1.2	<1	<1	<1	<1	<1	0.55 J	0.59 J	0.55 J	**43**	14	2,900	NA	<1
MW-103C	02/04/03	<10	<10	<10	19	<10	<10	<10	<50	<50	<50	<10	<50	<10	5.1 J	<10	**290**	13	<10	<20	<10	<10	<10	<10	<10	<10	<10	13	<10	**270**	9.3 J	3,500	<50	<10
MW-103C	04/01/03	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	**500**	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	**500**	<100	4,300	<500	<100
MW-103C	06/01/03	4.3 J	<10	<10	18	<10	<10	**6.6 J**	<50	<50	<50	<10	<50	<10	6.4 J	<10	**510**	23	<10	<20	<10	<10	<10J	<10	<10	<10	<10	<10	<10	**150**	8 J	3,400	<50J	<10
MW-103C	09/09/03	49 J	<50	<50	<50	<50	<50	<50	<250	<250	<250	<50	<250	<50	<50	<50	**520**	<50	<50	<100	**28 J**	<50	<50	<50	<50	<50	<50	<50	<50	**550**	<50	6,400	<250	<50
MW-103C	12/03/03	<50	<50	<50	<50	<50	<50	<50	<250J	<250	2,700	<50	<250	<50	<50	<50	**500**	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	**60**	<50	6,500	<250J	<50
MW-103C	05/12/04	<50	<50	<50	<50	<50	<50	<50	<250	<250	660	<50	<250	<50	<50	<50	**650**	110	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	**76**	<50	17,000	<250	<50
MW-103C	09/08/04	<100	<100	<100	<100	<100	<100	<100	<500J	<500J	<500	<100	<500	<100	<100	<100	**960**	<100	<100	<200	<100	<100	<100	<100J	<100	<100	<100	<100	<100	**60 J**	<100	15,000	<500J	<100
MW-103C	12/01/04	<25	<25	<25	<25	<25	<25	<25	<120	<120	<120	<25	<120	<25	<25	<25	**1,000**	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	**71**	<25	11,000	<120	**23 J**
MW-103C	06/08/05	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50J	<10	<50	<10	<10	<10	**690**	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**47**	<10	5,900	<50	**16**
MW-103C	12/19/05	<10	<10	<10	25	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**760**	37	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**57**	<10	7,600	<50	**16**
MW-103C	06/14/06	<5	<5	<5	13	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**360**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**28**	<5	7,100	<25	**6.1**
MW-103C	09/01/06	<5	<5	<5	30	<5	<5	**7**	<25	<25	<25	<5	<25	<5	<5	<5	**720**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**50**	<5	6,200	<25	**20**
MW-103C	04/02/07	<5	<5	<5	37	<5	<5	**6.9**	<25	<25	<25	<5	<25	<5	5.2	<5	**700**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**56**	<5	7,400	<25	**17**
MW-103C	10/29/07	<5	<5	<5	39	<5	<5	**8**	<25	<25	<25	<5	<25	<5	5	<5	**810**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**56**	<5	9,800	<25	**20**
MW-103C	04/14/08	<5	NA	<5	35	<5	NA	**7**	<25	<25	<25	<5	<25	<5	<5	<5	**600**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**46**	<5	8,600	<25	**21**
MW-103C	10/28/08	<5	NA	<5	18	<5	NA	**6**	<25	<25	<25	<5	<25	<5	<5	<5	**630**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**49**	<5	8,000	<25	**15**
MW-103C	04/28/09	<50	NA	<50	<50	<50	NA	<50	<250	<250	<250	<50	<250	<50	<50	<50	**620**	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	**56**	<50	9,600	<250	<50
MW-103C	11/04/09	<10	NA	<10	22	<10	NA	<10	<50	<50	<50	<10	<50	<10	<10	<10	**280**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**23**	<10	7,300	<50	**12**
MW-103C	05/05/10	<10	NA	<10	24	<10	NA	<10	<50	<50	<50	<10	<50	<10	<10	<10	**300**	<50	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	**35**	<10	6,800	<50	**11**
MW-103C	10/12/10	<10	<10	<10	19	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**240**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**27**	<10	4,400	<50	<10
MW-103C	12/02/10	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<500	<100	<100	<100	**260**	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	7,600	<100	<100
MW-103C	01/25/11	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	**310**	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**43**	<10	6,900	<10	**10**
MW-103C	04/11/11	<20	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	**310**	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	**49**	<20	8,200	<20	<20
MW-103C	08/15/11	<20	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	**270**	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	**40**	<20	11,000	<20	<20
MW-103C	10/04/11	<20	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	**270**	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	**41**	<20	10,000	<20	<20
MW-103C	05/17/12	<20	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<20	<20	**280**	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	**59**	<20	14,000	<20	<20
MW-103C	11/07/12	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<10	<10	<10	**210**	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**44**	<10	9,400	<10	**7.9**
MW-103C	05/07/13	<1	<1	2.15	<1	<1	<1	**3.11**	8.01	<5	17.99	<1	<5	<1	3.85	<1	**300**	108.85	<1	<2	<1	<1	<1	<1	<1	<1	<1	1.37	<1	**68.26**	<1	13,420	<5	**8.9**
MW-103C	10/13/13	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	**290**	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	<10	<20	**56**	<20	11,000	<40	<10
MW-103C	04/29/14	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	**310**	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	<10	<20	**65**	<20	13,000	<40	**10**
MW-103C	11/13/14	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	**200**	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	<10	<20	**28**	<20	8,000	<40	<10
MW-103C	04/14/15	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<10	<100	<20	<20	<20	**150**	<100	<10	<20	<100	<20	<20	<20	<10	<20	<20	7.1 J	<20	**20**	<20	7,900	<40	**11**
MW-104A	09/08/04	<20	<20	<20	<20	<20	<20	<20	<100J	<100J	<100	<20	<100	<20	<20	<20	**470**	<20	<20	<40	<20	<20	<20	<20J	<20	<20	<20	<20	<20	<20	<20	3,300	<100J	<20
MW-104A	12/01/04	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**490**	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2,500	<50	<10
MW-104A	06/08/05	<2	<2	2 J	<2	<2	<2	**3.1**	<10	<10	<10J	<2	<10	<2	1.7 J	<2	**450**	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	2.3	2.5	<2	2,200	<10	**2.9**
MW-104A	12/19/05	<10	<10	<10	15	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**890**	99	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3,400	<50	<10
MW-104A	06/14/06	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**310**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	980	<25	<5
MW-104A	09/01/06	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**740**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1,900	<50	<10
MW-104A	04/02/07	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**700**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,700	<25	<5
MW-104A	10/29/07	<5	<5	<5	7	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**600**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,400	<25	**7**
MW-104A	04/14/08	<5	NA	<5	7	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**610**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,000	<25	**7**
MW-104A	10/28/08	<5	NA	<5	<5	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**620**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	900	<25	**7**
MW-104A	04/28/09	<1	NA	3.4	8	<1	NA	**4.4**	<5	<5	<5	<1	<5	<1	1.9	<1	**650**	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	3.8	2.5	<1	810	<5	**14**
MW-104A	11/04/09	<10	NA	3.1	2.8	<10	NA	**3.8**	<50	<50	<50	<10	<50	<10	2.1	<10	**590**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	3.3	2.4	<10	940	<50	**12**
MW-104A	05/05/10	<1	NA	2.8	3.8	<1	NA	**3.5**	<5	<5	64	<1	<5	1.3	1.4	<1	**630**	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	3	2.2	<1	880	<5	**13**
MW-104A	10/12/10	<5	<5	<5	5.3	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**740**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	780	<25	**19**
MW-104A	04/11/11	<2	<2	2.5	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	**600**	<10	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	2.4	2.2	<2	910	<10	**9.4**
MW-104A	10/04/11	<1	<1	3.1	<1	<1	<1	**3.1**	<5	<5	<5	<1	<5	<1	1.1	<1	**440**	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	1.9	1.9	<1	650	<5	**8.4**
MW-104A	05/17/12	<2	<2	<2	<2	<2	<2	**3.2**	<10	<10	<10	<2	<2	<2	<2	<2	**470**	<10	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	2.2	<2	<2	950	<10	**9.3**

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-104A	11/07/12	<1	<1	1.6	1.1	<1	<1	**2.1**	<5	<5	<5	<1	<5	<1	1.1	<1	**360**	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	1.4	1.6	<1	740	<5	**5.1**
MW-104A	05/07/13	<1	<1	1.54	1.82	<1	<1	**1.99**	<5	<5	<5	<1	<5	<1	<1	<1	**300.5**	90.98	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	1.53	1.75	<1	661	<5	**6.6**
MW-104A	10/13/13	<1	<1	1.6	<1	<1	<1	**1.9**	<5	<5	<5	<0.5	<5	3	1	<1	32	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	1.7	1.4	<1	47	<2	**7.9**
MW-104A	04/28/14	<1	<1	1.9	<1	<1	<1	**2.1**	<5	<5	<5	<0.5	<5	<1	0.77 J	<1	**400**	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	1.9	1.7	<1	500	<2	**21**
MW-104A	11/13/14	<2.0	<2.0	1.8 J	<2.0	<2.0	<2.0	**1.9 J**	<10	<10	<10	<1.0	<10	<2.0	<2.0	<2.0	**390**	<10	<1.0	<2.0	<10	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	1.7 J	1.7	<2.0	610	<4.0	**15**
MW-104A	04/14/15	<1.0	<1.0	2	<1.0	<1.0	<1.0	**2.1**	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	0.81 J	<1.0	**370**	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.49 J	1.8	1.5	<1.0	390	<2.0	**25**
MW-104B	09/08/04	<20	<20	<20	<20	<20	<20	<20	<100J	<100J	<100	<20	<100	<20	<20	<20	**76**	<20	<20	<40	<20	**47**	<20	<20J	<20	<20	<20	<20	<20	**17 J**	<20	3,900	<100J	<20
MW-104B	12/01/04	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	**6.1 J**	<50	<10	<10	<10	**75**	<10	<10	<20	<10	**49**	<10	<10	<10	<10	<10	<10	<10	**17**	<10	1,900	<50	<10
MW-104B	06/08/05	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10J	**4**	<10	<2	<2	<2	56	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	**14**	<2	1,300	<10	<2
MW-104B	12/19/05	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**110**	16	<10	<20	<10	14	<10	<10	<10	<10	<10	<10	<10	**26**	<10	1,900	<50	<10
MW-104B	06/14/06	<10	<10	<10	23	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**110**	<50	<10	<20	<10	12	<10	<10	<10	<10	<10	<10	<10	**22**	<10	1,600	<50	<10
MW-104B	09/01/06	<10	<10	<10	30	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**150**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	**30**	<10	2,000	<50	<10
MW-104B	04/02/07	<5	<5	<5	37	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**300**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**28**	<5	3,500	<25	<5
MW-104B	10/29/07	<5	<5	<5	30	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**170**	<25	<5	<10	<5	10	<5	<5	<5	<5	<5	<5	<5	**27**	<5	2,800	<25	<5
MW-104B	04/14/08	<5	NA	<5	26	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**81**	<25	<5	<10	<5	11	<5	<5	<5	<5	<5	<5	<5	**17**	<5	2,000	<25	<5
MW-104B	10/28/08	<5	NA	<5	<5	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**81**	<25	<5	<10	<5	10	<5	<5	<5	<5	<5	<5	<5	**18**	<5	2,100	<25	<5
MW-104B	04/28/09	<5	NA	<5	24	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**190**	<25	<5	<10	<5	7.9	<5	<5	<5	<5	<5	<5	<5	**22**	<5	2,100	<25	<5
MW-104B	11/04/09	<5	NA	<5	12	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**99**	<25	<5	<10	<5	9.2	<5	<5	<5	<5	<5	<5	<5	**18**	<5	2,100	<25	<5
MW-104B	05/05/10	<5	NA	<5	<5	<5	NA	<5	<25	<25	170	<5	<25	<5	<5	<5	**140**	<25	<5	<10	<10	5.6	<5	<5	<5	<5	<5	<5	<5	**18**	<5	1,900	<25	<5
MW-104B	10/12/10	<5	<5	<5	18	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	67	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**15**	<5	1,100	<25	<5
MW-104B	04/11/11	<5	<5	<5	9.2	<5	<5	<5	<25	<25	<25	<5	<5	<5	<5	<5	44	<25	<5	<10	<5	9.2	<5	<5	<5	<5	<5	<5	<5	**13**	<5	2,800	<25	<5
MW-104B	10/04/11	<10	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	35	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2,500	<50	<10
MW-104B	05/17/12	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	32	<10	<2	<4	<2	5.1	<2	<2	<2	<2	<2	<2	<2	**11**	<2	1,100	<10	<2
MW-104B	11/07/12	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<2	<2	26	<10	<2	<4	<2	5.1	<2	<2	<2	<2	<2	<2	<2	**7.8**	2.1	2,000	<10	<2
MW-104B	05/07/13	<1	<1	<1	14.5	<1	<1	<1	<5	<5	<5	<1	<5	<1	1.42	<1	24.36	11.27	<1	<2	<1	3.68	<1	<1	<1	<1	<1	<1	<1	**7.77**	<1	2,891	<5	<1
MW-104B	10/13/13	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<2.5	<25	<5	<5	<5	25	<25	<2.5	<5	<25	2.9	<5	<5	<2.5	<5	<5	<2.5	<5	**6.2**	<50	1,700	<10	<2.5
MW-104B	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	10	<0.5	<5	<1	0.87 J	<1	30	<5	<0.5	<1	<5	2.3	<1	<1	<0.5	<1	<1	<0.5	<1	**7.1**	1.1	880	<2	**1.3**
MW-104B	11/13/14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<25	<25	<2.5	<25	<5.0	<5.0	<5.0	24	<25	<2.5	<5.0	<25	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<2.5	<5.0	**7.3**	<5.0	1,600	<10	**2 J**
MW-104B	04/14/15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<10	<1.0	<10	<2.0	<2.0	<2.0	29	<10	<1.0	<2.0	<10	2	<2.0	<2.0	<1.0	<2.0	<2.0	0.91 J	<2.0	**4.6**	<2.0	610	<4.0	**1.3**
MW-104C	09/08/04	<5	<5	<5	<5	<5	<5	<5	<25J	<25J	<25	<5	<25	<5	<5	<5	45	<5	<5	<10	<5	<5	<5	<5J	<5	<5	<5	<5	<5	4.8 J	4.2 J	1,300	<25J	<5
MW-104C	12/01/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	16	<1	<1	<2	<1	1.2	<1	<1	<1	<1	<1	<1	<1	**12**	1.4	360	<5	<1
MW-104C	06/08/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5J	<1	<5	<1	<1	<1	37	<1	<1	<2	1	<1	<1	<1	<1	<1	<1	<1	<1	**4.3**	<1	480	<5	<1
MW-104C	12/19/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	31	2	<1	<2	<1	1.3	<1	<1	<1	<1	<1	<1	<1	**5.1**	<1	220	<5	<1
MW-104C	06/16/06	<1	<1	<1	9	<1	<1	<1	5.6	<5	<5	<1	<5	<1	<1	<1	60	<5	<1	<2	<1	4.4	<1	<1	<1	<1	<1	<1	<1	**7.7**	<1	660	<5	<1
MW-104C	09/01/06	<10	<10	<10	17	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	**80**	<50	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1,200	<50	<10
MW-104C	04/02/07	<5	<5	<5	6.8	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	49	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**6.2**	<5	390	<25	<5
MW-104C	10/29/07	<5	<5	<5	26	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**170**	<25	<5	<10	<5	7	<5	<5	<5	<5	<5	<5	<5	**18**	<5	2,200	<25	<5
MW-104C	04/14/08	<5	NA	<5	10	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**71**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**9**	<5	760	<25	<5
MW-104C	10/28/08	<5	NA	<5	<5	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	70	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**9**	<5	790	<25	<5
MW-104C	04/28/09	<5	NA	<5	8.9	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**87**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**8.3**	<5	700	<25	<5
MW-104C	11/04/09	<5	NA	<5	20	<5	NA	<5	<25	<25	<25	<5	<25	<5	<5	<5	**150**	<25	<5	<10	<5	8	<5	<5	<5	<5	<5	<5	<5	**15**	<5	2,700	<25	<5
MW-104C	05/05/10	<5	NA	<5	17	<5	NA	<5	<25	<25	220	<5	<25	<5	<5	<5	**130**	<25	<5	<10	<10	7.7	<5	<5	<5	<5	<5	<5	<5	**17**	<5	2,500	<25	<5
MW-104C	10/12/10	<5	<5	<5	19	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**110**	<25	<5	<10	<5	6	<5	<5	<5	<5	<5	<5	<5	**12**	<5	1,600	<25	<5
MW-104C	04/11/11	<5	<5	<5	7.7	<5	<5	<5	<25	<25	<25	<5	<5	<5	<5	<5	**100**	<25	<5	<10	<5	7.4	<5	<5	<5	<5	<5	<5	<5	**13**	<5	2,200	<25	<5
MW-104C	10/04/11	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	3.8	<2	**87**	<10	<2	<4	<2	9.6	<2	<2	<2	<2	<2	<2	<2	**13**	<2	2,400	<10	<2
MW-104C	05/17/12	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<5	<5	<5	<5	65	<25	<5	<10	<5	7.6	<5	<5	<5	<5	<5	<5	<5	**9.8**	2.6	2,800	<25	<5
MW-104C	11/07/12	<2	<2	<2	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	2.1	<2	55	<10	<2	<4	<2	5.8	<2	<2	<2	<2	<2	<2	<2	**7.8**	<2	1,500	<10	<2
MW-104C	05/07/13	<1	<1	<1	12	<1	<1	**1.1**	<5	<5	<5	<1	<5	<1	1.9	<1	**130**	16	<1	<2	<1	3.3	<1	<1	<1	<1	<1	<1	<1	**9.6**	<1	1,800	<5	<1
MW-104C	10/13/13	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<2.5	<25	<5	<5	<5	51	<25	<2.5	<5	<25	3.9	<5	<5	<2.5	<5	<5	<2.5	<5	**7.8**	<50	2,700	<10	<2.5
MW-104C	04/28/14	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<2.5	<25	<5	<5	<5	52	<25	<2.5	<5	<25	4.1 J	<5	<5	<2.5	<5	<5	<2.5	<5	**7**	<5	2,000	<10	**2.1 J**

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-104C	11/13/14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<25	<25	<2.5	<25	<5.0	<5.0	<5.0	54	<25	<2.5	<5.0	<25	3.9 J	<5.0	<5.0	<2.5	<5.0	<5.0	<2.5	<5.0	**8**	<5.0	20,000	<10	**2.6**
MW-104C (	04/14/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<25	<25	<2.5	<25	<5.0	<5.0	<5.0	43	<25	<2.5	<5.0	<25	3.6 J	<5.0	<5.0	<2.5	<5.0	<5.0	1.9 J	<5.0	**5.1**	<5.0	1,300	<10	2.1 J
MW-105C	02/17/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	1.8	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1	8.8	<5	<1
MW-105C	05/06/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-105C	10/12/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-105C	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-105C	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-105C	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-105C	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-105C	05/07/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	12.98	<5	<1	<2	2.05	<1	<1	<1	<1	<1	<1	1.01	<1	<1	<1	9.82	<5	<1
MW-105C	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	<1	<5	<0.5	<1	<5	0.54	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<5	<2	<0.5
MW-105C	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	<1	<5	<0.5	<1	<5	0.69 J	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<5	<2	<0.5
MW-105C	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	0.74 J	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-105C	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	5.6	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	0.89 J	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-10B	09/04/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	6.6	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	1.4	<0.22	72	NA	<0.18
MW-10B	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	0.99 J	<1	29	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	670	<5	<1
MW-10B	09/08/04	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	22	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	890	<25	<5
MW-10B	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5J	<5	<5	<1	<5	<1	<1	<1J	20	<1	<1	<2	<1	2.6 J	<1	<1	<1	<1	<1	<1	<1	1.9	<1	470	<5	<1
MW-10B	09/01/06	<1	<1	<1	17	<1	<1	<1	<5	<5	<5	<1	<5	<1	1.2	<1	**120**	<5	<1	<2	<1	5.2	<1	<1	<1	<1	<1	<1	<1	**5.4**	<1	1,300	<5	**1.8**
MW-10B	04/02/07	<1	<1	<1	27	<1	<1	**1.1**	6.2	<5	24	<1	<5	<1	1.4	<1	**160**	<5	<1	<2	<1	3.6	<1	<1	<1	<1	<1	<1	<1	**5.4**	<1	1,600	<5	**3.1**
MW-10B	10/29/07	<1	<1	<1	11	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	**81**	<5	<1	<2	<1	8	<1	<1	<1	<1	<1	<1	<1	**5**	<1	820	<5	**1**
MW-10B	04/14/08	<1	NA	<1	6	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	39	<5	<1	<2	<1	7	<1	<1	<1	<1	<1	<1	<1	**4**	<1	340	<5	<1
MW-10B	10/28/08	<1	NA	<1	1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	59	<5	<1	<2	<1	3	<1	<1	<1	<1	<1	<1	<1	3	<1	640	<5	<1
MW-10B	04/28/09	<1	NA	<1	22	<1	NA	<1	<5	<5	<5	<1	<5	<1	1.2	<1	**120**	<5	<1	<2	<1	2.6	<1	<1	<1	<1	<1	<1	<1	**5.4**	<1	990	<5	**1.8**
MW-10B	11/03/09	<1	NA	<1	9	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	**90**	<5	<1	<2	<1	2	<1	<1	<1	<1	<1	<1	<1	**3.5**	<1	640	<5	**1.2**
MW-10B	05/06/10	<1	NA	<1	4.5	<1	NA	<1	<5	<5	53	<1	<5	<1	<1	<1	**87**	<5	<1	<2	<2	2.8	<1	<1	<1	<1	<1	<1	<1	**3.2**	<1	720	<5	**1**
MW-10B	10/11/10	<5	<1	<5	9.7	<5	<1	<5	<25	<25	<25	<5	<25	<5	<5	<5	67	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	580	<25	<5
MW-10B	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	40	<5	<1	<2	<1	1.8	<1	<1	<1	<1	<1	<1	<1	1.8	<1	490	<5	<1
MW-10B	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	18	<5	<1	<2	<1	1.5	<1	<1	<1	<1	<1	<1	<1	1.3	<1	140	<5	<1
MW-10B	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	31	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	420	<5	<1
MW-10B	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	18	<5	<1	<2	<1	2.4	<1	<1	<1	<1	<1	<1	<1	1.4	<1	190	<5	<1
MW-10B	05/07/13	<1	<1	<1	3.2	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	15.64	<5	<1	<2	<1	1.4	<1	<1	<1	<1	<1	<1	<1	1.24	<1	228	<5	<1
MW-10B	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	24	<5	<0.5	<1	<5	0.82	<1	<1	<0.5	<1	<1	<0.5	<1	1.2	<10	340	<2	<0.5
MW-10B	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	25	<5	<0.5	<1	<5	1.6	<1	<1	<0.5	<1	<1	<0.5	<1	1.5	<1	380	<2	**0.97**
MW-10B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	17	<5.0	<0.50	<1.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.0	<1.0	0.36 J	<1.0	1	<1.0	230	<2.0	<0.50
MW-10B	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	0.74 J	<1.0	15	<5.0	<0.50	<1.0	<5.0	2.3	<1.0	<1.0	<0.50	<1.0	<1.0	0.31 J	<1.0	1.1	<1.0	180	<2.0	**0.52**
MW-10D	09/04/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	12	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	1.7	<0.22	100	NA	<0.18
MW-10D	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	1.2	<1	38	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	0.6 J	750	<5	<1
MW-10D	09/08/04	<5	<5	<5	<5	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	26	<5	<5	<10	<5	4.6 J	<5	<5	<5	<5	<5	<5	<5	**8.3**	<5	1,200	<25	<5
MW-10D	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5J	<5	<5	<1	<5	<1	<1	<1J	49	<1	<1	<2	<1	2.5 J	<1	<1	<1	<1	<1	<1	<1	2.6	<1	1,200	<5	<1
MW-10D	09/01/06	<1	<1	<1	23	<1	<1	**1.4**	<5	<5	<5	<1	<5	<1	1.8	<1	**190**	<5	<1	<2	<1	3.4	<1	<1	<1	<1	<1	<1	<1	**6.1**	<1	1,900	<5	**3.8**
MW-10D	04/02/07	<1	<1	<1	24	<1	<1	**1.2**	<5	<5	<5	<1	<5	<1	1.4	<1	**170**	<5	<1	<2	<1	3	<1	<1	<1	<1	<1	<1	<1	**5.4**	<1	1,400	<5	**4.6**
MW-10D	10/29/07	<1	<1	<1	15	<1	<1	<1	<5	<5	<5	<1	<5	<1	1	<1	**120**	<5	<1	<2	<1	9	<1	<1	<1	<1	<1	<1	<1	**8**	<1	1,200	<5	**2**
MW-10D	04/14/08	<1	NA	<1	13	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	**76**	<5	<1	<2	<1	5	<1	<1	<1	<1	<1	<1	<1	**5**	<1	650	<5	**1**
MW-10D	10/28/08	<1	NA	<1	4	<1	NA	<1	<5	<5	<5	<1	<5	<1	1	<1	**130**	<5	<1	<2	<1	2	<1	<1	<1	<1	<1	<1	<1	**5**	<1	1,300	<5	**1**
MW-10D	04/28/09	<1	NA	<1	24	<1	NA	**1**	<5	<5	<5	<1	<5	<1	1.4	<1	**150**	<5	<1	<2	<1	2.5	<1	<1	<1	<1	<1	<1	<1	**6.1**	<1	1,300	<5	**2.8**
MW-10D	11/03/09	<1	NA	<1	10	<1	NA	<1	<5	<5	<5	<1	<5	<1	1.3	<1	**130**	<5	<1	<2	<1	2.4	<1	<1	<1	<1	<1	<1	<1	**4.7**	<1	820	<5	**2**
MW-10D	05/04/10	<5	NA	<5	<5	<5	NA	<5	<25	<25	110	<5	<25	<5	<5	<5	**150**	<25	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,200	<25	<5
MW-10D	10/11/10	<5	<5	<5	13	<5	<5	<5	<25	<25	<25	<5	<25	<5	<5	<5	**110**	<25	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	830	<25	<5

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-10D	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	46	<5	<1	<2	<1	2.7	<1	<1	<1	<1	<1	<1	<1	2.5	<1	470	<5	<1
MW-10D	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	27	<5	<1	<2	<1	1.7	<1	<1	<1	<1	<1	<1	<1	1.7	<1	180	<5	<1
MW-10D	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	48	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.7	<1	750	<5	<1
MW-10D	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	17	<5	<1	<2	<1	1.9	<1	<1	<1	<1	<1	<1	<1	1.2	<1	150	<5	<1
MW-10D	05/07/13	<1	<1	<1	1.17	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	9.99	<5	<1	<2	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	96.4	<5	<1
MW-10D	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	30	<5	<0.5	<1	<5	1.2	<1	<1	<0.5	<1	<1	<0.5	<1	1.9	<1	460	<2	<0.5
MW-10D	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	0.89 J	<1	67	<5	<0.5	<1	<5	1.2	<1	<1	<0.5	<1	<1	<0.5	<1	**3.1**	<1	970	<2	**2.7**
MW-10D	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	28	<5.0	<0.50	<1.0	<5.0	2.1	<1.0	<1.0	<0.50	<1.0	<1.0	1.3	<1.0	1.2	<1.0	290	<2.0	<0.50
MW-10D	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	0.83 J	<1.0	64	<5.0	<0.50	<1.0	<5.0	1.2	<1.0	<1.0	<0.50	<1.0	<1.0	0.3 J	<1.0	2.5	<1.0	700	<2.0	**3**
MW-16B	09/03/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	6.7	<0.2	<0.4	<0.21	<0.23	<0.16	1.9	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	0.34 J	<0.22	21	NA	<0.18
MW-16B	04/03/03	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	1.1	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	0.32 J	<0.22	22	<0.47J	<0.18
MW-16B	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	2.4	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.57 J	<1	47	<5	<1
MW-16B	03/16/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	8.5	<1	<5	<1	<1	<1	2	<1	<1	<2	<1	1.8	<1	<1	<1	<1	<1	<1	<1	0.57 J	<1	40	<5	<1
MW-16B	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	1.2	<1	<1	<2	<1	1.5	<1	<1	<1	<1	<1	<1	<1	0.53 J	<1	31	<5	<1
MW-16B	03/07/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	1.2	<1	<1	<2	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	16	<5	<1
MW-16B	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5J	<5	<5	<1	<5	<1	<1	<1J	1.5	<1	<1	<2	<1	1.3 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	20	<5	<1
MW-16B	09/01/06	<1	<1	<1	1.3	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	4.2	<5	<1	<2	<1	4.6	<1	<1	<1	<1	<1	<1	<1	1.9	<1	71	<5	<1
MW-16B	04/02/07	<1	<1	<1	2.2	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	7.2	<5	<1	<2	<1	9.7	<1	<1	<1	<1	<1	<1	<1	**3.5**	<1	91	<5	<1
MW-16B	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	2	<5	<1	<2	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	19	<5	<1
MW-16B	04/14/08	<1	NA	<1	1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	6	<5	<1	<2	<1	3	<1	<1	<1	<1	<1	<1	<1	2	<1	86	<5	<1
MW-16B	10/28/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	6	<5	<1	<2	<1	2	<1	<1	<1	<1	<1	<1	<1	2	<1	84	<5	<1
MW-16B	04/28/09	<1	NA	<1	1.5	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	9	<5	<1	<2	<1	2.4	<1	<1	<1	<1	<1	<1	<1	1.8	<1	110	<5	<1
MW-16B	11/03/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	3.4	<5	<1	<2	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	36	<5	<1
MW-16B	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	5.8	<5	<1	<2	<2	2	<1	<1	<1	<1	<1	<1	<1	1.1	<1	63	<5	<1
MW-16B	10/11/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	4.5	<5	<1	<2	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	44	<5	<1
MW-16B	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	1.3	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	<5	<1
MW-16B	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	2.3	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	22	<5	<1
MW-16B	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	2.6	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	33	<5	<1
MW-16B	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	1.1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.9	<5	<1
MW-16B	05/07/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	1.88	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	26.99	<5	<1
MW-16B	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	2	<5	<0.5	<1	<5	0.76	<1	<1	<0.5	<1	<1	<0.5	<1	0.4	<1	24	<2	<0.5
MW-16B	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	0.58 J	<1	2.5	<5	<0.5	<1	<5	1.2	<1	<1	<0.5	<1	<1	<0.5	<1	0.53	<1	30	<2	<0.5
MW-16B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	1	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.46 J	<1.0	<0.50	<1.0	12	<2.0	<0.50
MW-16B	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	0.96 J	<1.0	2.5	<5.0	<0.50	<1.0	<5.0	1.4	<1.0	<1.0	<0.50	<1.0	<1.0	0.34 J	<1.0	0.51	<1.0	22	<2.0	<0.50
MW-16D	09/03/02	<0.22	<0.33	0.45 J	<0.19	<0.24	<0.2	**1.2**	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	1.3	<0.16	**90**	6.9	<0.2	<0.39	1.2	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	**7.1**	2.6	890	NA	<0.18
MW-16D	04/03/03	<0.22	<0.33	0.34 J	1.1	<0.24	<0.2	**0.81 J**	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	0.55 J	<0.16	63	2.5	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	**3.3**	0.73 J	180	<0.47J	<0.18
MW-16D	09/08/03	<1	<1	<1	<1	<1	<1	**0.9 J**	<5	<5	<5	<1	<5	<1	<1	<1	64	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	78	<5	<1
MW-16D	03/16/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	11	<1	<5	<1	<1	<1	38	<1	<1	<2	0.69 J	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	49	<5	<1
MW-16D	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	41	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	29	<5	<1
MW-16D	03/07/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	36	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	13	<5	<1
MW-16D	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5J	<5	<5	<1	<5	<1	<1	<1J	27	<1	<1	<2	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1	12	<5	<1
MW-16D	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	70	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	28	<5	<1
MW-16D	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	7	<1	<5	<1	<1	<1	39	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	<5	<1
MW-16D	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	8	<1	<5	<1	<1	<1	38	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	12	<5	<1
MW-16D	04/14/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	28	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	9	<5	<1
MW-16D	10/28/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	27	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	<5	<1
MW-16D	04/28/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	27	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.6	<5	<1
MW-16D	11/04/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	3.8	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.8	<5	<1
MW-16D	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	2.9	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.3	<5	<1
MW-16D	10/11/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	2.5	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-16D	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	3.3	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-16D	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	13	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-16D	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	2.4	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-16D	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	2.8	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.2	<5	<1
MW-16D	05/07/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	5.72	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-16D	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	5.8	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	6.5	<2	<0.5
MW-16D	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	10	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	9	<2	<0.5
MW-16D	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	5.5	0.39 J	<0.50	<1.0	0.69 J	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.37 J	<1.0	<0.50	<1.0	35	<2.0	<0.50
MW-16D	04/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	21	<0.50	<5.0	<1.0	<1.0	<1.0	4.9	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.33 J	<1.0	<0.50	<1.0	27	<2.0	<0.50
MW-18B	09/05/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	<0.21	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	<0.21	<0.22	<0.22	NA	<0.18
MW-18B	04/03/03	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	<0.21	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	<0.21	<0.22	<0.22	<0.47J	<0.18
MW-18B	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-18B	03/16/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-18B	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-18B	03/07/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-18B	09/14/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-18B	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	04/14/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	10/28/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	04/28/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	11/04/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	10/12/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	10/03/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	68	<5	<1
MW-18B	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-18B	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	<1	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<5	<2	<0.5
MW-18B	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.32 J	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-18D	09/05/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	21	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	2.7	<0.22	250	NA	<0.18
MW-18D	04/03/03	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	26	2.5	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	3	<0.22	330	<0.47J	<0.18
MW-18D	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	30	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**3.1**	<1	310	<5	<1
MW-18D	03/16/04	<5	<5	<5	<5	<5	<5	<5	<25	<25	64	<5	<25	<5	<5	<5	24	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	2.6 J	<5	330	<25	<5
MW-18D	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	18	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.3	<1	270	<5	<1
MW-18D	03/07/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	16	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	120	<5	<1
MW-18D	09/14/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	13	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	78	<5	<1
MW-18D	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	14	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	120	<5	<1
MW-18D	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	16	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	170	<5	<1
MW-18D	10/29/07	<1	<1	<1	2	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	21	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	260	<5	<1
MW-18D	04/14/08	<1	NA	<1	2	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	23	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	260	<5	<1
MW-18D	10/28/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	26	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	320	<5	<1
MW-18D	04/28/09	<1	NA	<1	2.7	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	25	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1	260	<5	<1
MW-18D	11/04/09	<1	NA	<1	1.3	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	18	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	220	<5	<1
MW-18D	05/05/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	13	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	140	<5	<1
MW-18D	10/12/10	<1	<1	<1	1.9	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	15	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	190	<5	<1
MW-18D	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	10	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	150	<5	<1
MW-18D	10/03/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	120	<5	<1
MW-18D	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	7.9	<5	<1	<2	<1	1.3	<1	<1	<1	<1	<1	<1	<1	0.9	<1	100	<5	<1
MW-18D	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	8.5	<5	<1	<2	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	110	<5	<1
MW-18D	05/07/13	<1	<1	<1	1.12	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	8.72	<5	<1	<2	<1	1.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	142.7	<5	<1

Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-18D	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	9.4	<5	<0.5	<1	<5	1	<1	<1	<0.5	<1	<1	<0.5	<1	0.74	<1	110	<2	<0.5
MW-18D	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	9.5	<5	<0.5	<1	<5	1.2	<1	<1	<0.5	<1	<1	<0.5	<1	0.87	<1	110	<2	<0.5
MW-18D	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	12	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.43 J	<1.0	0.87	<1.0	130	<2.0	<0.50
MW-19B	09/05/02	<0.22	<0.33	<0.2	0.89 J	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	0.3 J	<0.16	11	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	0.33 J	**3.1**	1.5	160	NA	<0.18
MW-19B	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-19B	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-19B	09/14/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-19B	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	10/29/07	<1	<1	<1	<1	<1	<1	<1	34	<5	7	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	04/14/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	10/27/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	04/27/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6	<5	<1
MW-19B	11/03/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	10/12/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-19B	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	<1	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<5	<2	<0.5
MW-19B	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.33 J	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-19D	09/05/02	<0.22	<0.33	<0.2	1.1	<0.24	<0.2	<0.25	2 J	<0.92	<1.5	<0.2	<0.4	<0.21	0.33 J	<0.16	18	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	0.44 J	0.34 J	**3.2**	1.5	200	NA	**1**
MW-19D	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	13	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**3.6**	1.7	190	<5	<1
MW-19D	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	21	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**5.3**	2.4	560	<5	<1
MW-19D	09/14/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	23	1.8	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**6.3**	2.9	370	<5	<1
MW-19D	09/01/06	<1	<1	<1	2.1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	31	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**8.1**	3.5	430	<5	<1
MW-19D	04/02/07	<1	<1	<1	3	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	37	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**9.4**	3.7	620	<5	<1
MW-19D	10/29/07	<1	<1	<1	3	<1	<1	<1	<5	<5	<5	<1	<5	<1	1	<1	55	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**11**	3	760	<5	<1
MW-19D	04/14/08	<1	NA	<1	4	<1	NA	<1	<5	<5	<5	<1	<5	<1	1	<1	55	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**11**	5	770	<5	<1
MW-19D	10/27/08	<1	NA	<1	2	<1	NA	<1	<5	<5	<5	<1	<5	<1	1	<1	69	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**13**	4	920	<5	<1
MW-19D	04/27/09	<1	NA	<1	5.4	<1	NA	<1	<5	<5	<5	<1	<5	<1	1.4	<1	**78**	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**12**	1.2	710	<5	<1
MW-19D	11/03/09	<1	NA	<1	3.3	<1	NA	<1	<5	<5	<5	<1	<5	<1	1	<1	**340**	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**7.7**	<1	7,600	<5	<1
MW-19D	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	50	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	**7.3**	2	450	<5	<1
MW-19D	10/12/10	<1	<1	<1	2.1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	51	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**6.6**	2	310	<5	<1
MW-19D	04/11/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	66	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**6.3**	2	650	<5	<1
MW-19D	10/04/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	58	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**4.6**	<1	340	<5	<1
MW-19D	05/17/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	63	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**4.7**	<1	290	<5	<1
MW-19D	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<1	<1	<1	<1	60	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**3.4**	<1	190	<5	<1
MW-19D	05/07/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	**76.11**	13.17	<1	<2	2.01	<1	<1	<1	<1	<1	<1	<1	<1	**3.65**	<1	177.75	<5	<1
MW-19D	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	0.5	<5	<1	<1	<1	68	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	2.7	<1	150	<2	**0.8**
MW-19D	04/28/14	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	0.36 J	<5	<1	<1	<1	62	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	2.3	<1	130	<2	**0.8**
MW-19D	11/11/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.48 J**	<5.0	<5.0	<5.0	0.49 J	<5.0	<1.0	<1.0	<1.0	64	15	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.34 J	<1.0	2.3	<1.0	170	<2.0	**1**
MW-19D	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<1.0**	<5.0	<5.0	<5.0	0.54	<5.0	<1.0	<1.0	<1.0	**78**	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	2.6	<1.0	200	<2.0	**1.1**
MW-20B	09/03/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	<0.21	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	<0.21	<0.22	<0.22	NA	<0.18
MW-20B	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20B	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20B	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20B	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1

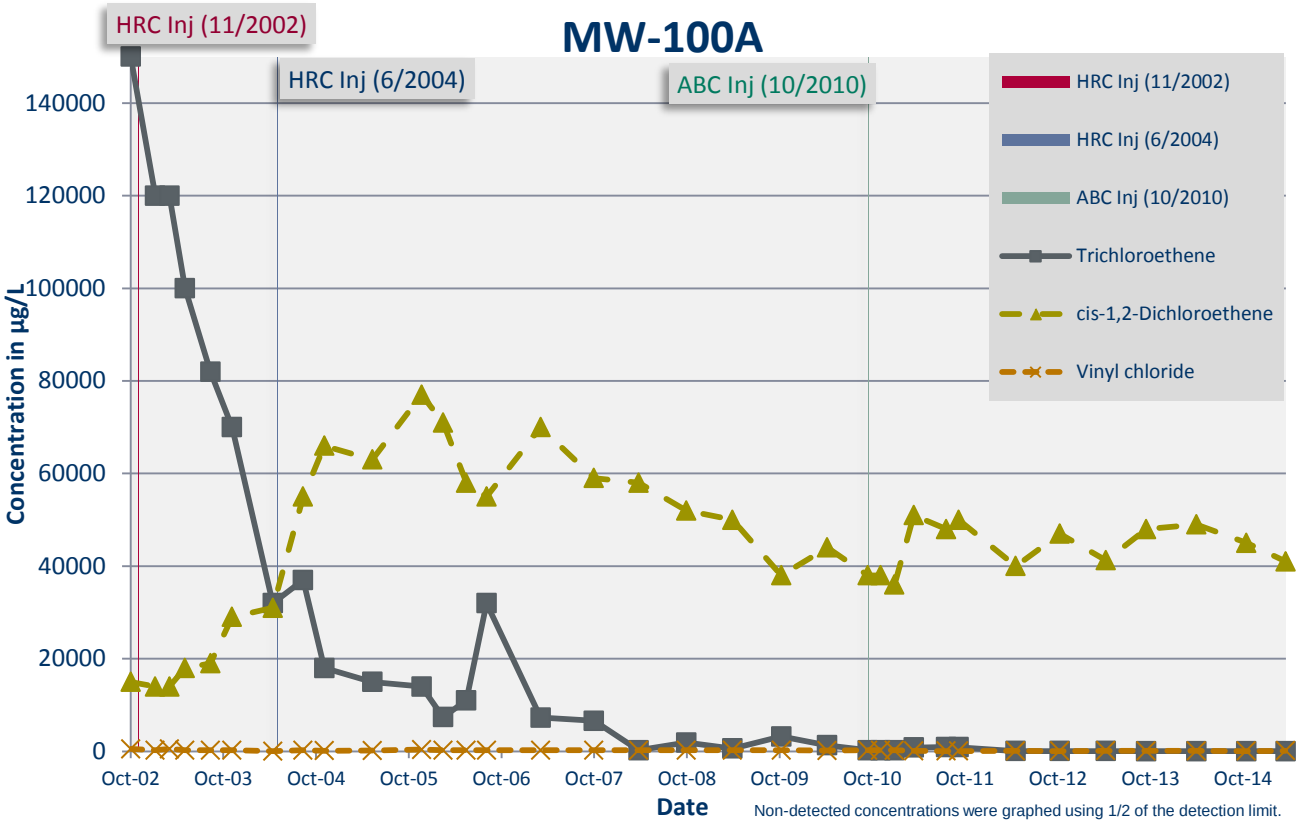
Appendix C: Historical Volatile Organic Compound Analytical Results at Solvent Plume Wells

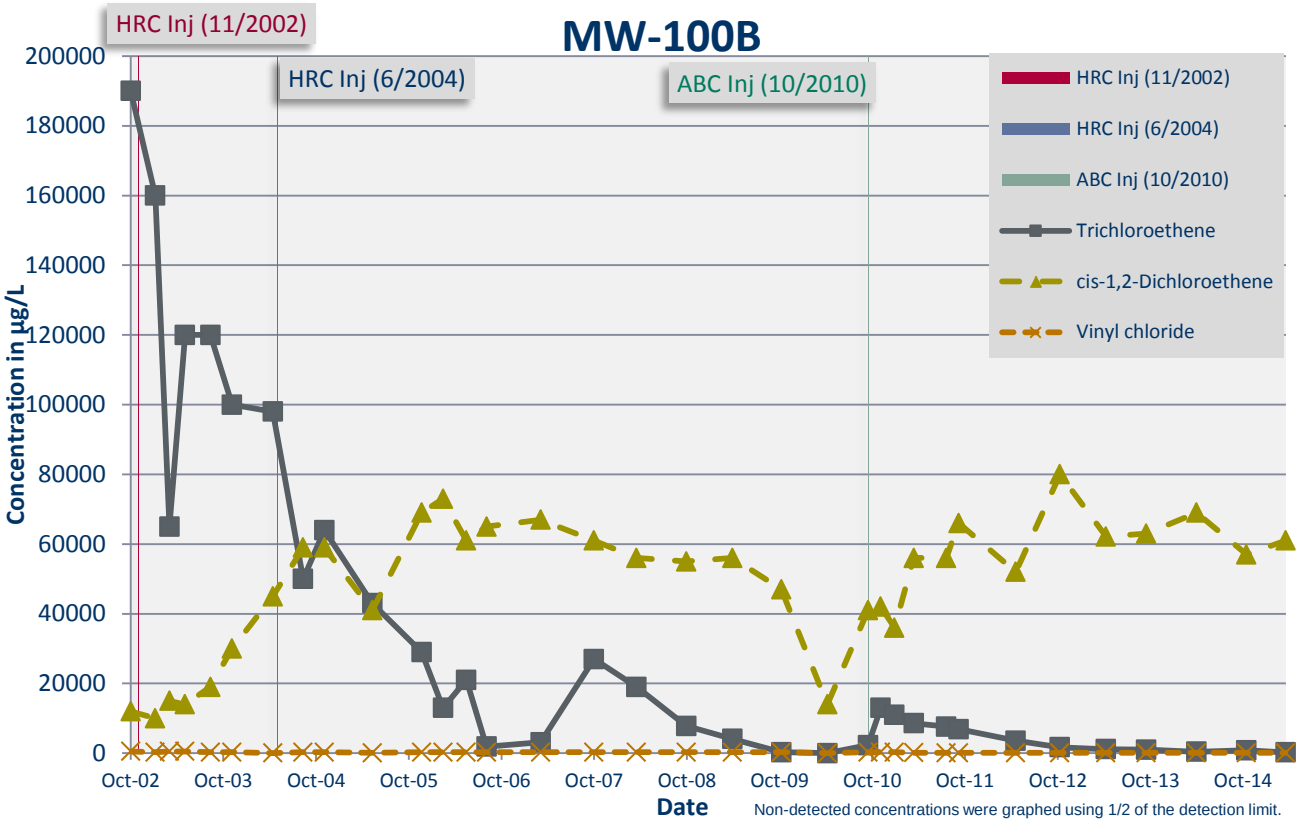
Sample ID	Date	Parameter (in ug/L)																															
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Freon-12 (Dichlorodifluoromethane)	Ethylbenzene	m&p-Xylenes	Methylene chloride	Methyl-tert-butyl-ether (MTBE)	Naphthalene	n-Butylbenzene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Freon-11 (Trichlorofluoromethane)	Freon- 113 (1,1,2-Trichlorotrifluoroethane)	Vinyl acetate	Vinyl chloride
2L Standards		200	0.6	6	350	NE	400	0.4	4000	NE	6000	1	700	3000	70	3	70	1000	600	500	5	20	6	70	500	70	0.7	600	100	3	2000	200000	88	0.03
MW-20B	04/14/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	10/27/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	04/27/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	11/04/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	10/11/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	10/03/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	13	<5	<1
MW-20B	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20B	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	<1	<5	<0.5	0.36	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<5	<2	<0.5
MW-20B	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-20B	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-20D	09/04/02	<0.22	<0.33	<0.2	<0.19	<0.24	<0.2	<0.25	<1.7	<0.92	<1.5	<0.2	<0.4	<0.21	<0.23	<0.16	<0.21	<0.14	<0.2	<0.39	<0.19	<0.21	<0.34	<0.22	<0.21	<0.23	<0.2	<0.21	<0.21	<0.21	<0.22	0.87 J	NA	<0.18
MW-20D	09/08/03	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20D	09/08/04	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20D	09/13/05	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
MW-20D	09/01/06	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	04/02/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	10/29/07	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	04/14/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	10/28/08	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	04/28/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	11/04/09	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	05/04/10	<1	NA	<1	<1	<1	NA	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	10/11/10	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	10/01/11	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1
MW-20D	11/07/12	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	1.7	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.6	<1	<5	<5	<1
MW-20D	10/13/13	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<0.5	<5	<1	<1	<1	0.74	<5	<0.5	<1	<5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.45	<1	0.63	<2	<0.5
MW-20D	11/12/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	0.68 J	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.35 J	<1.0	0.49 J	<1.0	<5.0	<2.0	<0.50
MW-20D	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	0.47 J	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
MW-21B	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50
FR-6D	04/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<0.50	<5.0	<1.0	<1.0	<1.0	21	<5.0	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<0.50	<1.0	<5.0	<2.0	<0.50

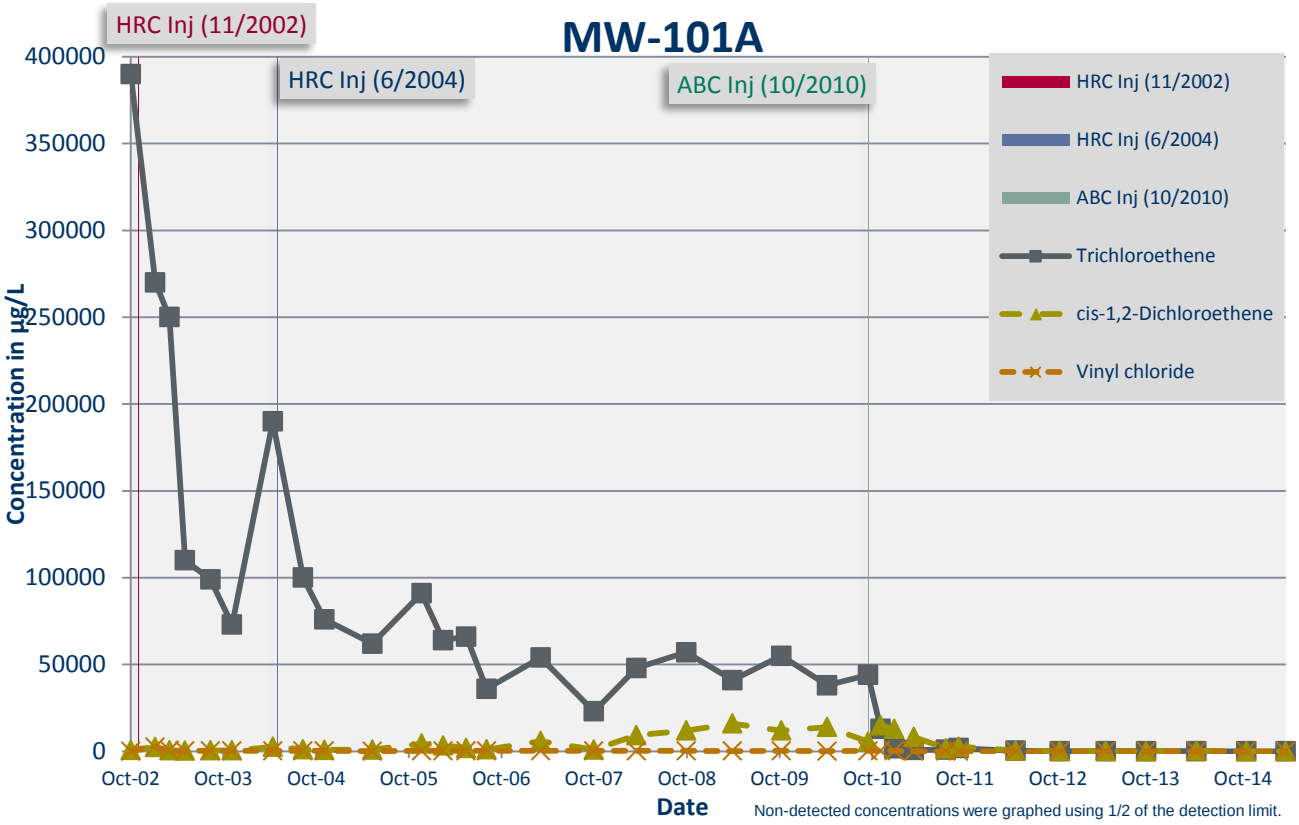
* During the 11/4/2009 sampling event, the samples for MW-102A and MW-102C were mislabled in the field. They have been corrected in this table.
µg/L: micrograms per liter
2L Standard: North Carolina Administrative Code (15A NCAC) Subchapter 2L Groundwater Standards (updates effective April 1, 2013)
The NCDENR approved a change to the 2L Standard for 1,1-DCE , to increase from 7 ug/L to 350 ug/L, in January 10, 2013. The final 2L standard 2013 updates are dated April 1, 2013.
"<" gray value indicates not detected
Bold and Shaded: Constituent concentration reported above the NCAC 2L Groundwater Standard (current 2L updates dated April 1, 2013)

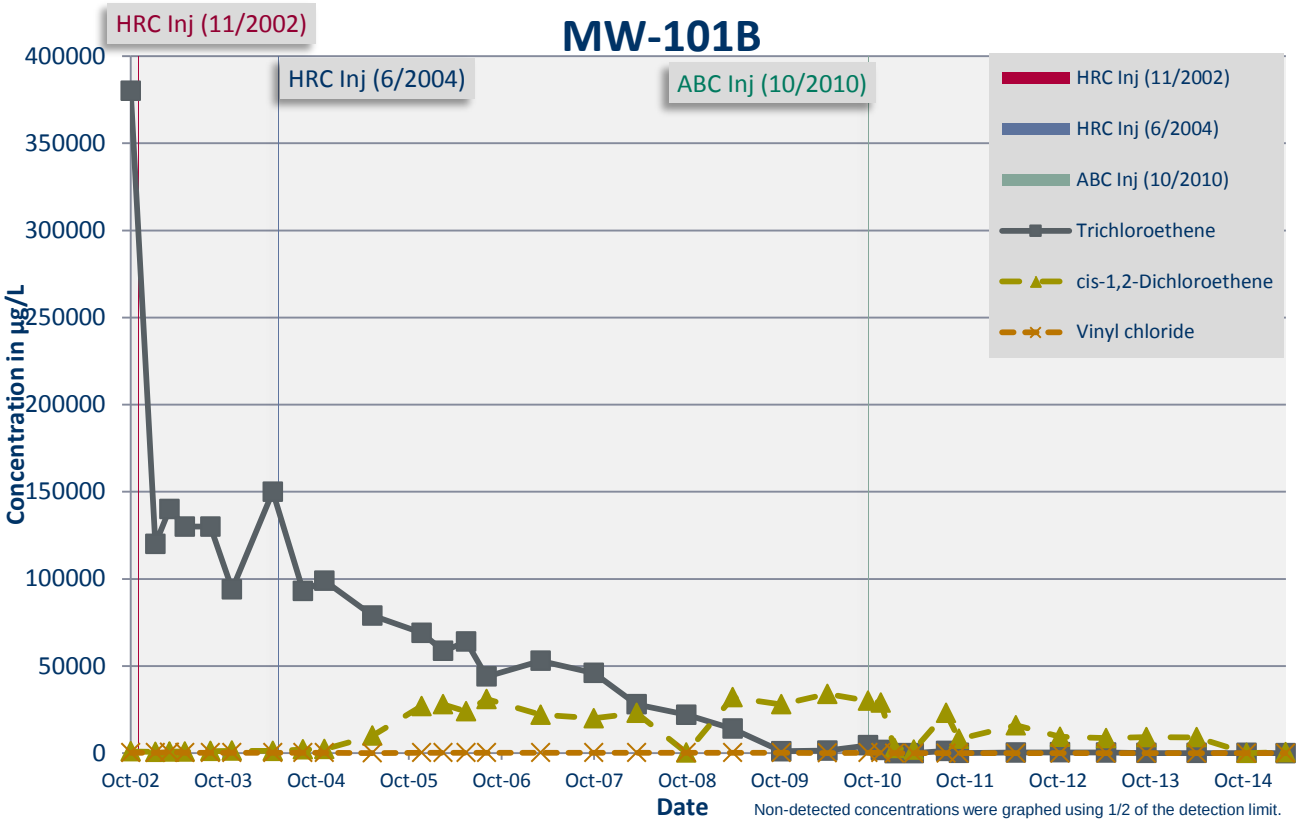
Appendix D

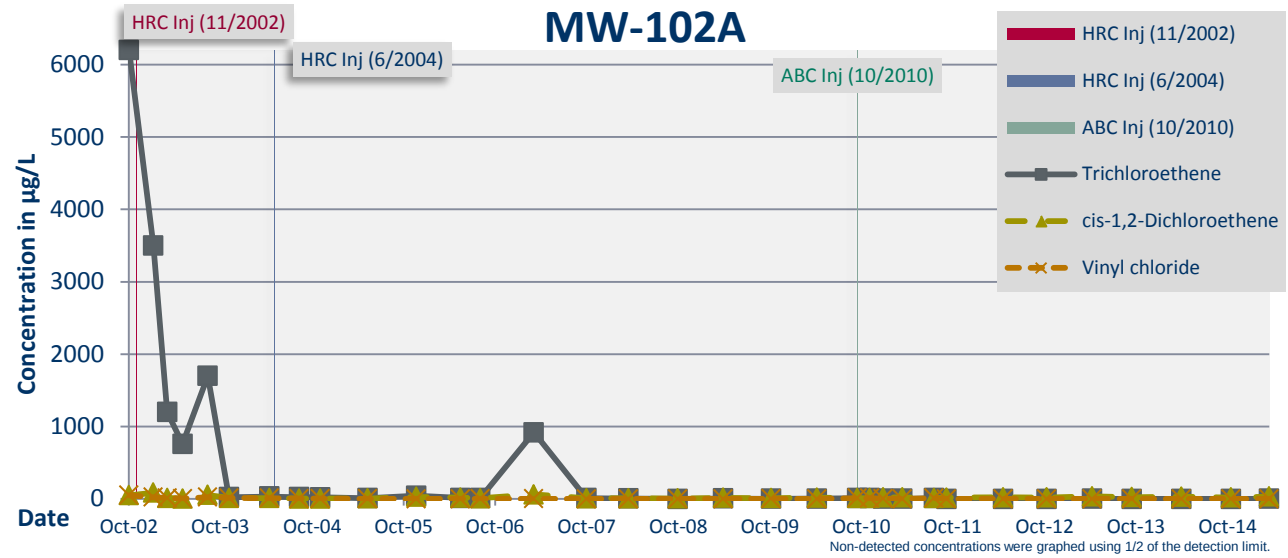
Trichloroethene, cis-1,2-DCE, and Vinyl Cloride Trend Plots for Selected Wells

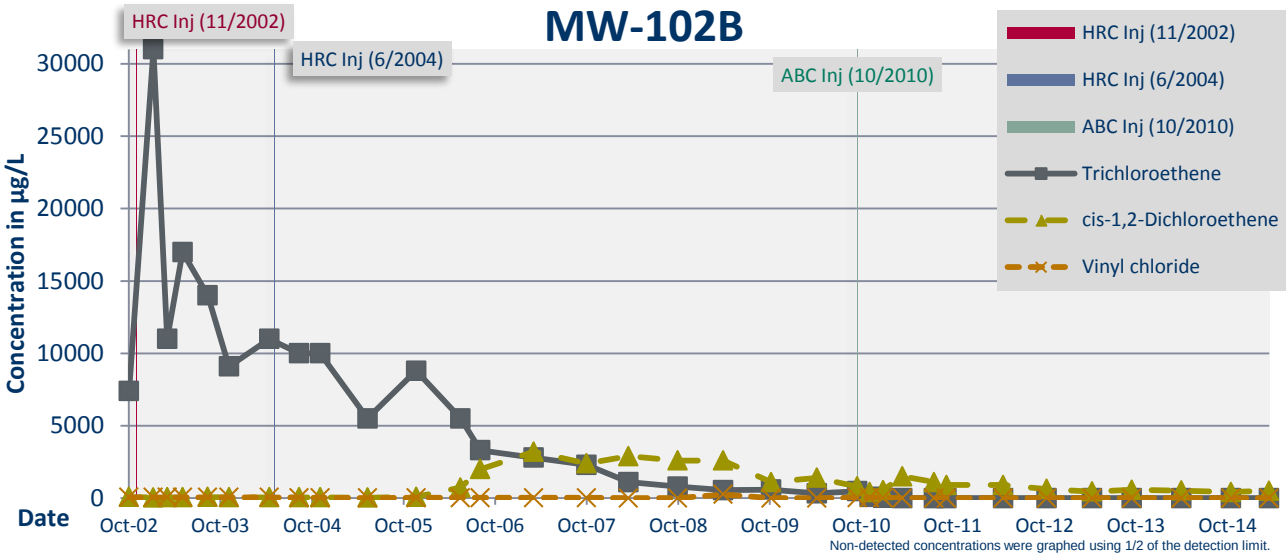

MW-100A
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
140000
120000
100000
80000
60000
40000
20000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

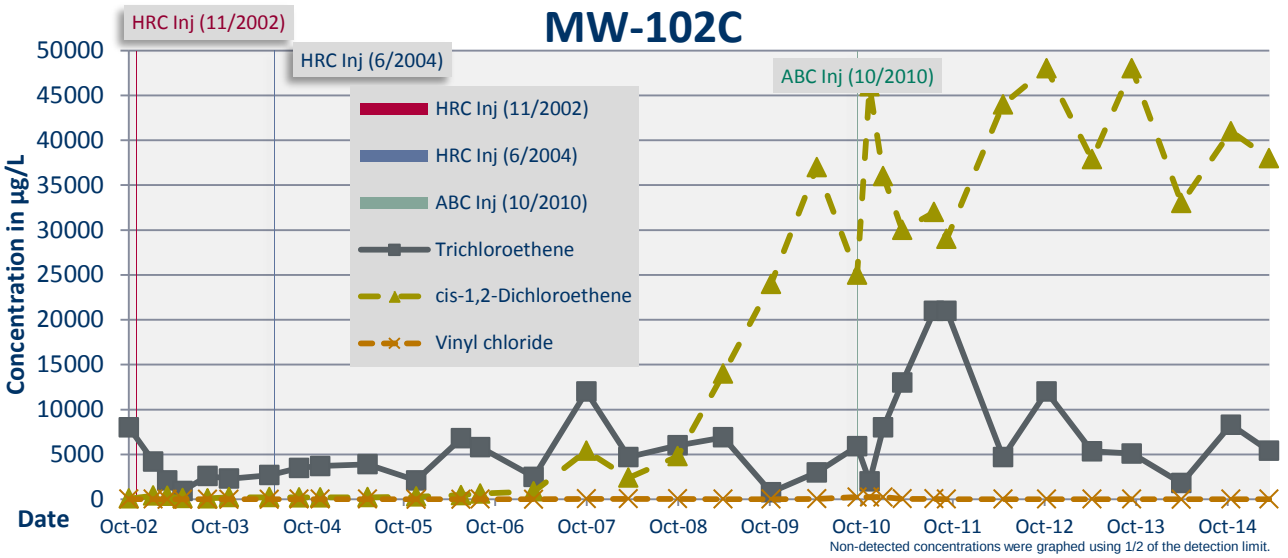

MW-100B
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

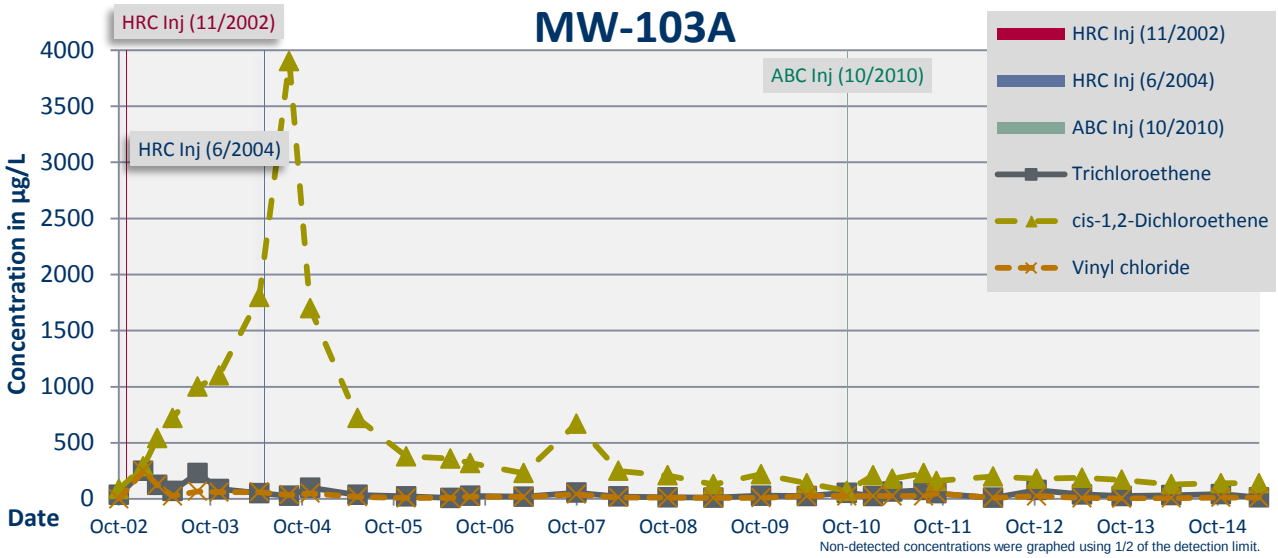

MW-101A
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
400000
350000
300000
250000
200000
150000
100000
50000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

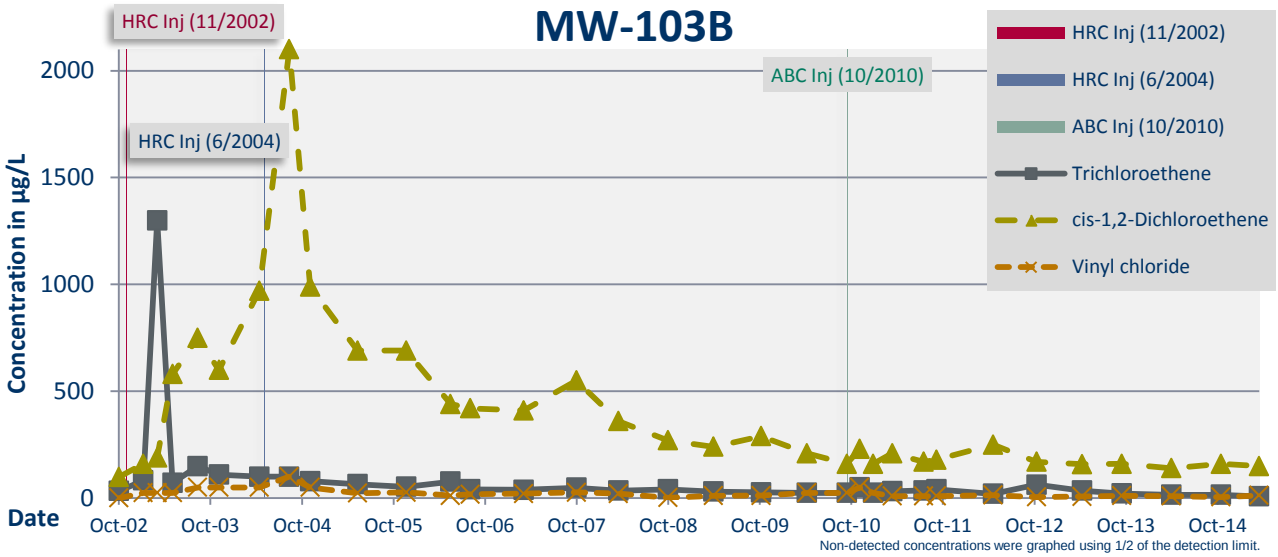

MW-101B
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
400000
350000
300000
250000
200000
150000
100000
50000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

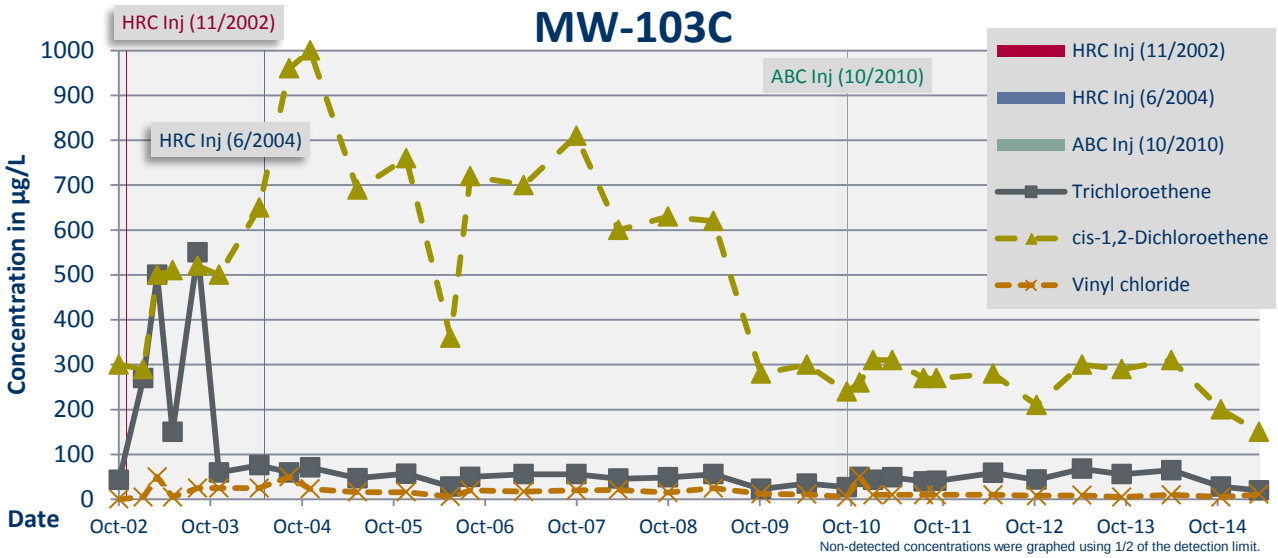

MW-102A
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
6000
5000
4000
3000
2000
1000
0
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

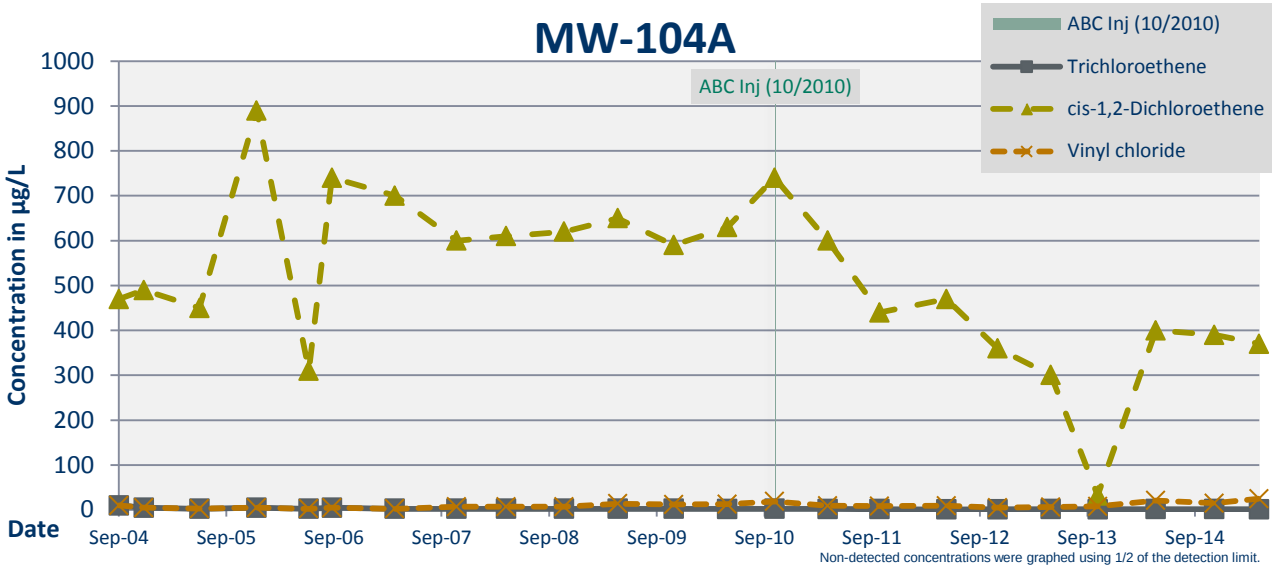

MW-102B
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
30000
25000
20000
15000
10000
5000
0
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

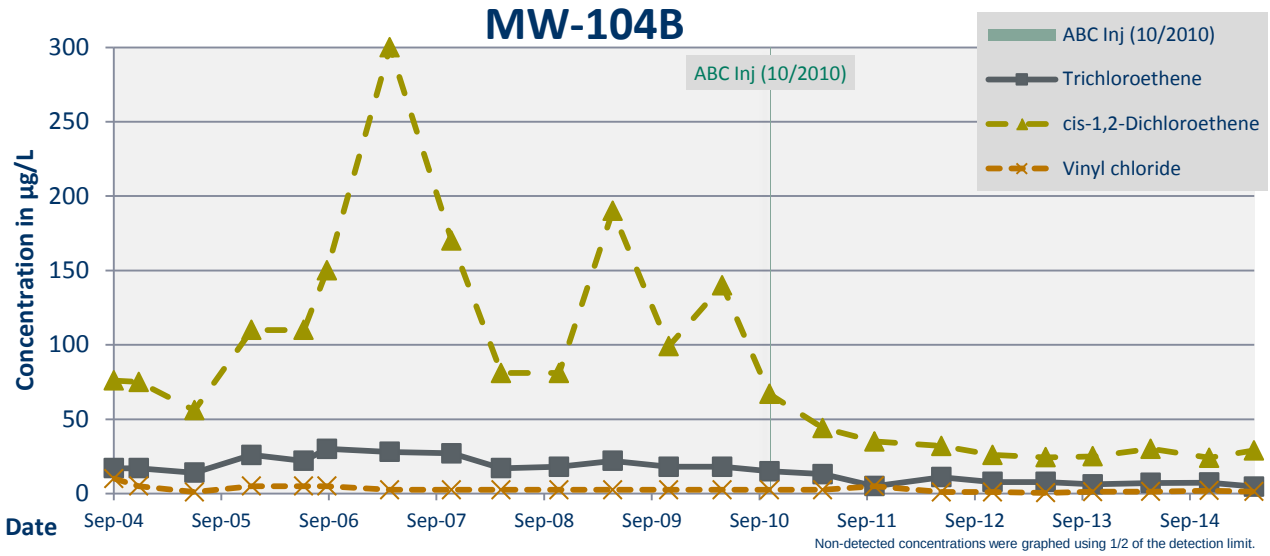

MW-102C
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

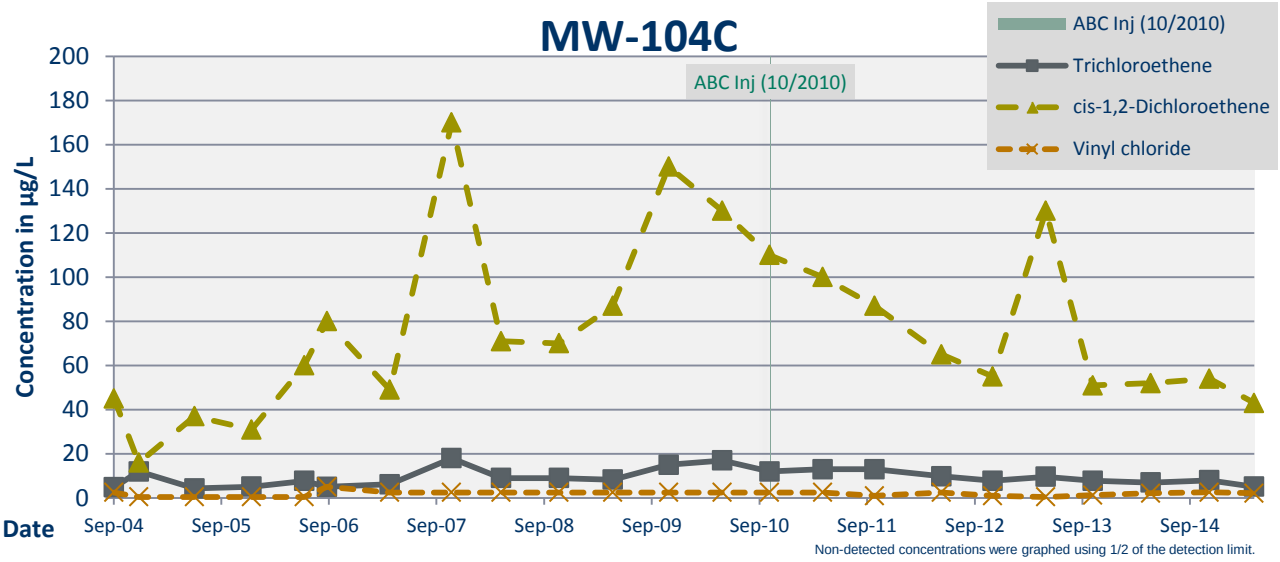

MW-103A
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

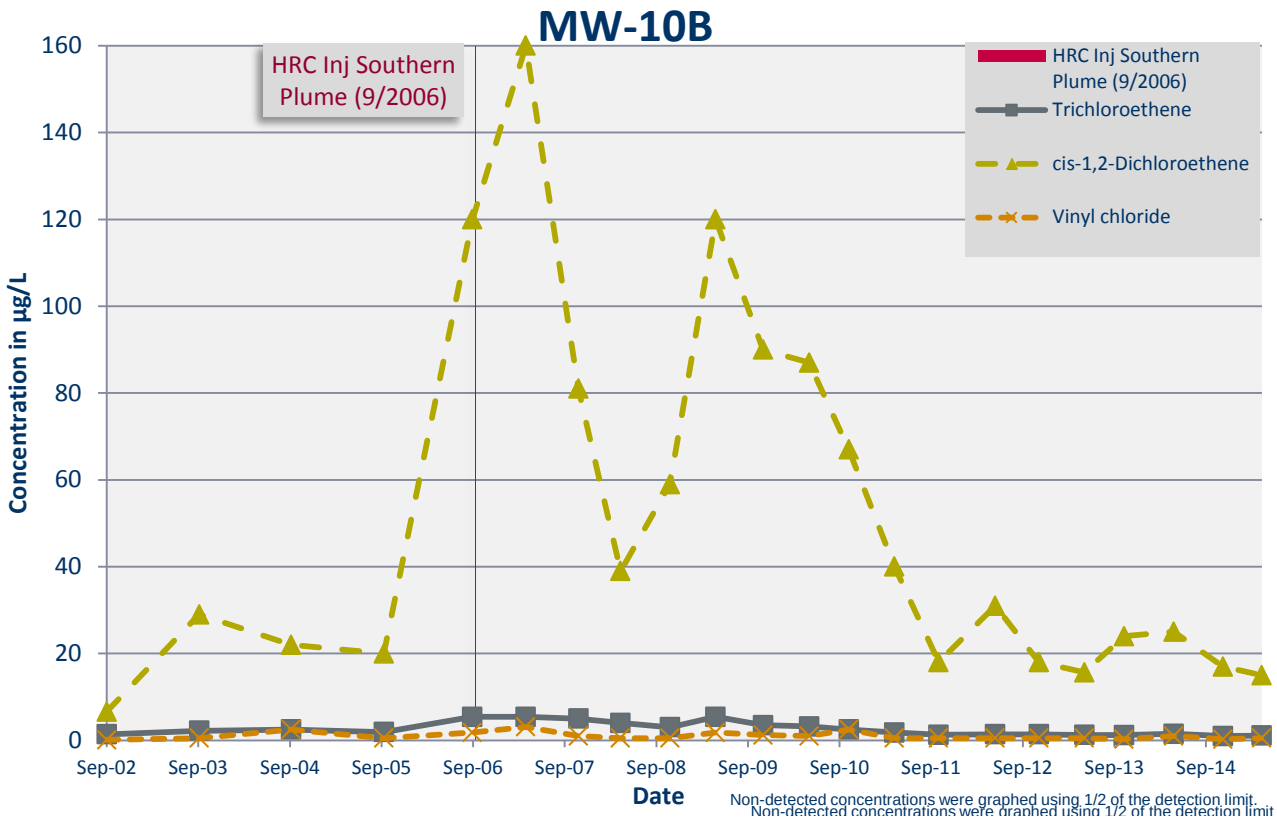

MW-103B
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

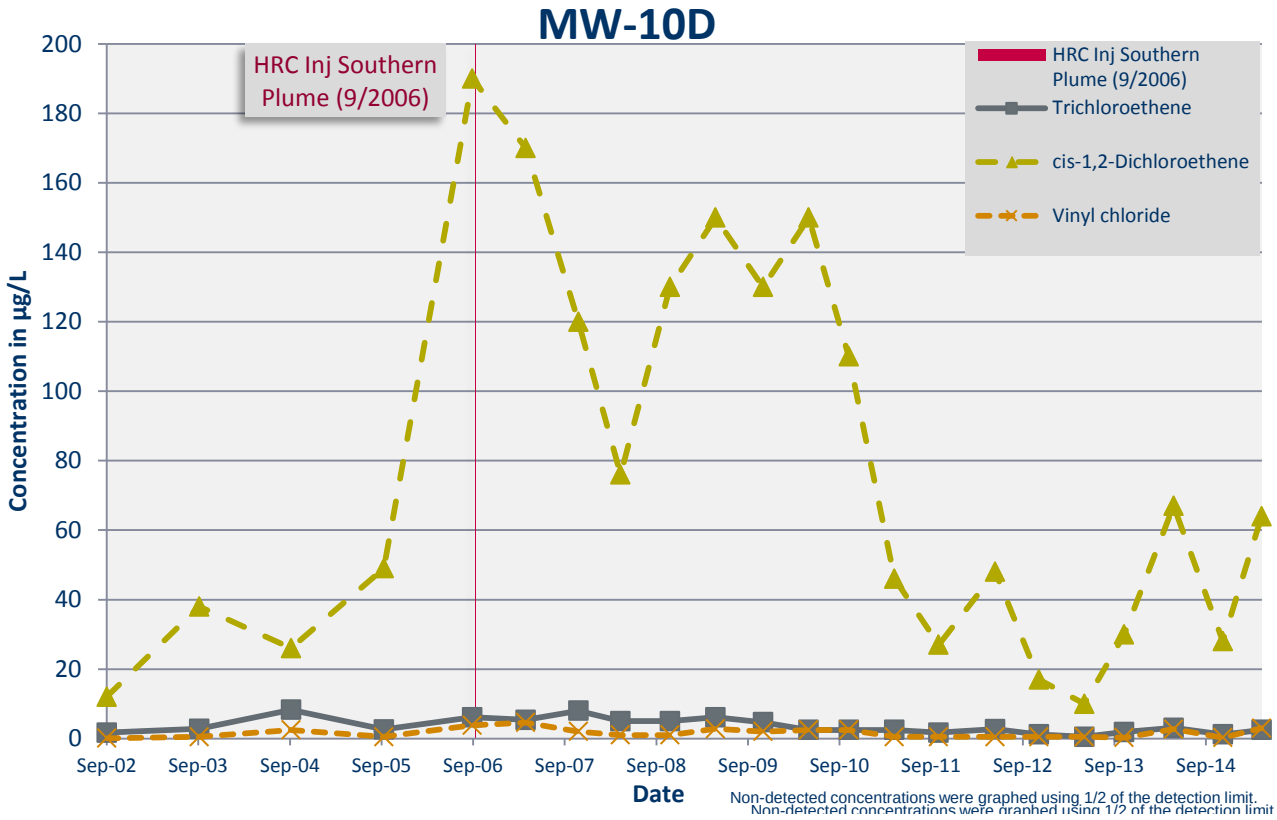

MW-103C
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration in µg/L
Date
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Non-detected concentrations were graphed using 1/2 of the detection limit.

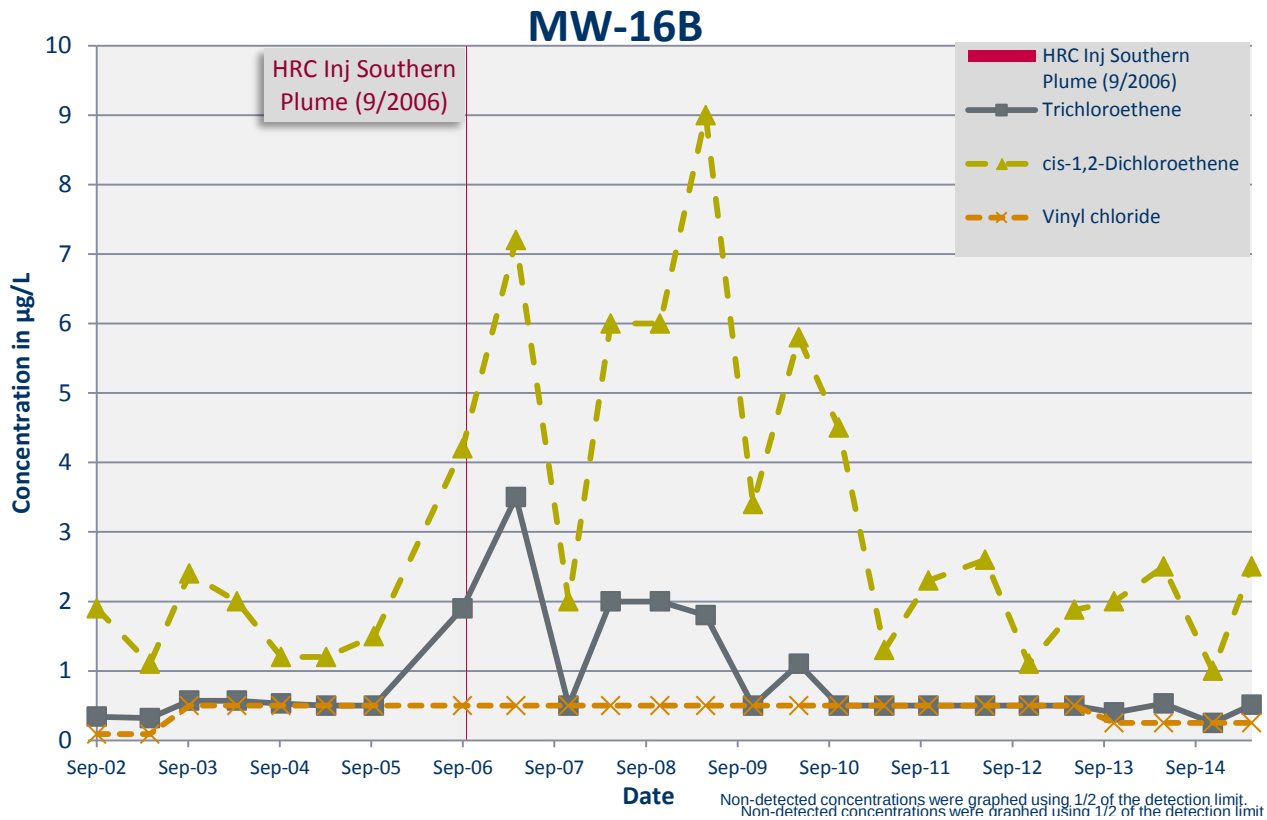

MW-104A
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
1000
900
800
700
600
500
400
300
200
100
0
Date
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Non-detected concentrations were graphed using 1/2 of the detection limit.

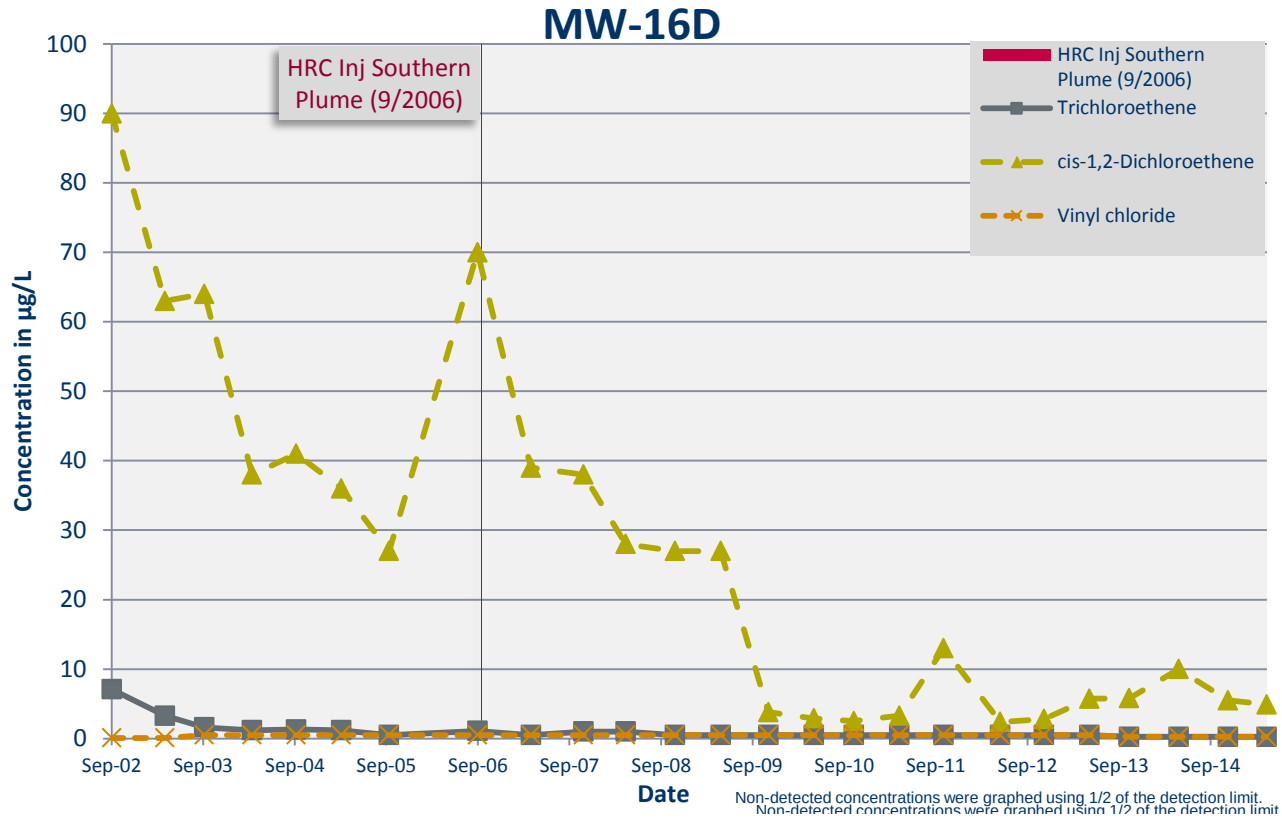

MW-104B
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
300
250
200
150
100
50
0
Date
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Non-detected concentrations were graphed using 1/2 of the detection limit.


MW-104C
ABC Inj (10/2010)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
200
180
160
140
120
100
80
60
40
20
0
Date
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Non-detected concentrations were graphed using 1/2 of the detection limit.


MW-10B
HRC Inj Southern Plume (9/2006)
HRC Inj Southern Plume (9/2006)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
160
140
120
100
80
60
40
20
0
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

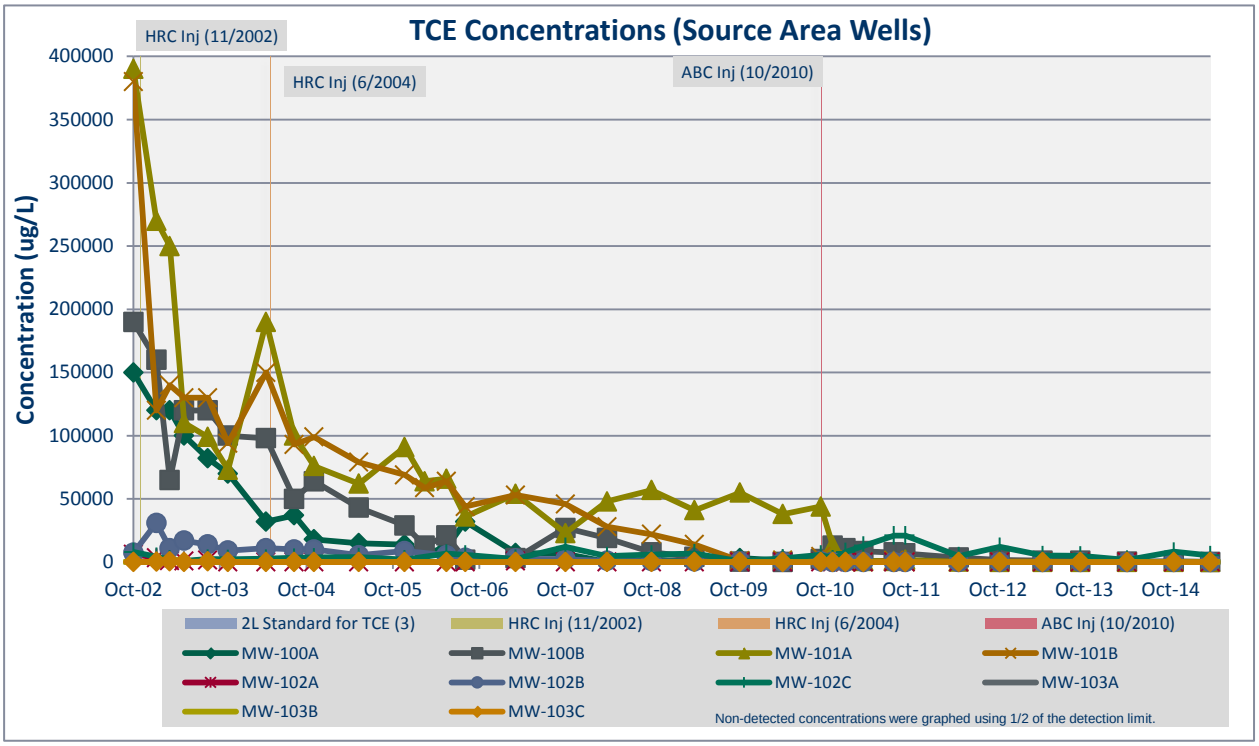

MW-10D
HRC Inj Southern Plume (9/2006)
HRC Inj Southern Plume (9/2006)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
200
180
160
140
120
100
80
60
40
20
0
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

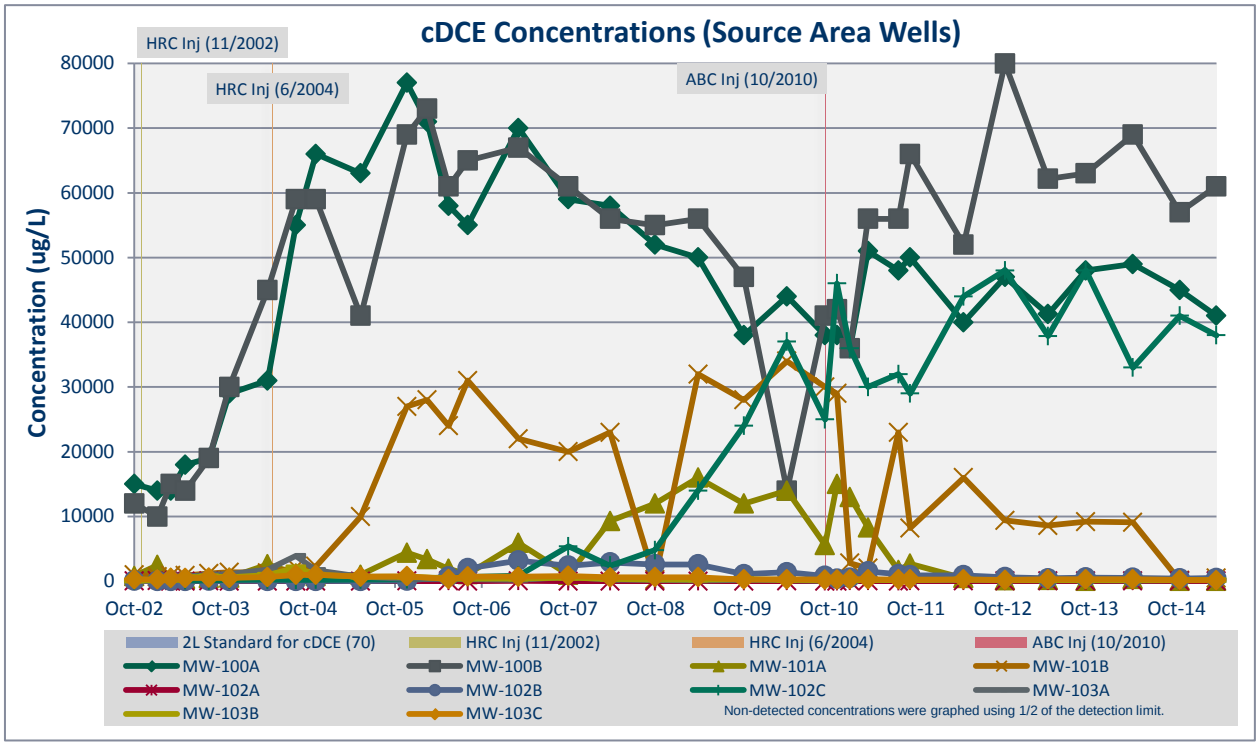

MW-16B
HRC Inj Southern Plume (9/2006)
HRC Inj Southern Plume (9/2006)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
0
1
2
3
4
5
6
7
8
9
10
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

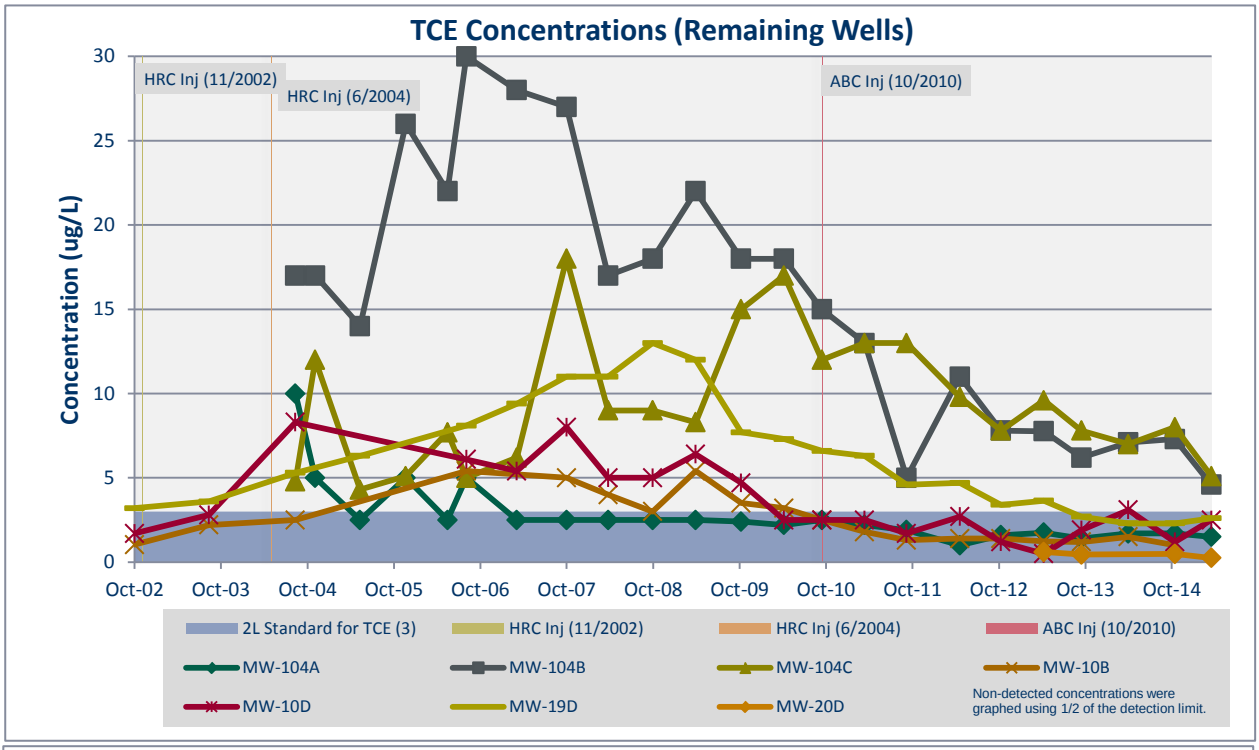

MW-16D
HRC Inj Southern Plume (9/2006)
HRC Inj Southern Plume (9/2006)
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
Concentration in µg/L
0
10
20
30
40
50
60
70
80
90
100
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Date
Non-detected concentrations were graphed using 1/2 of the detection limit.

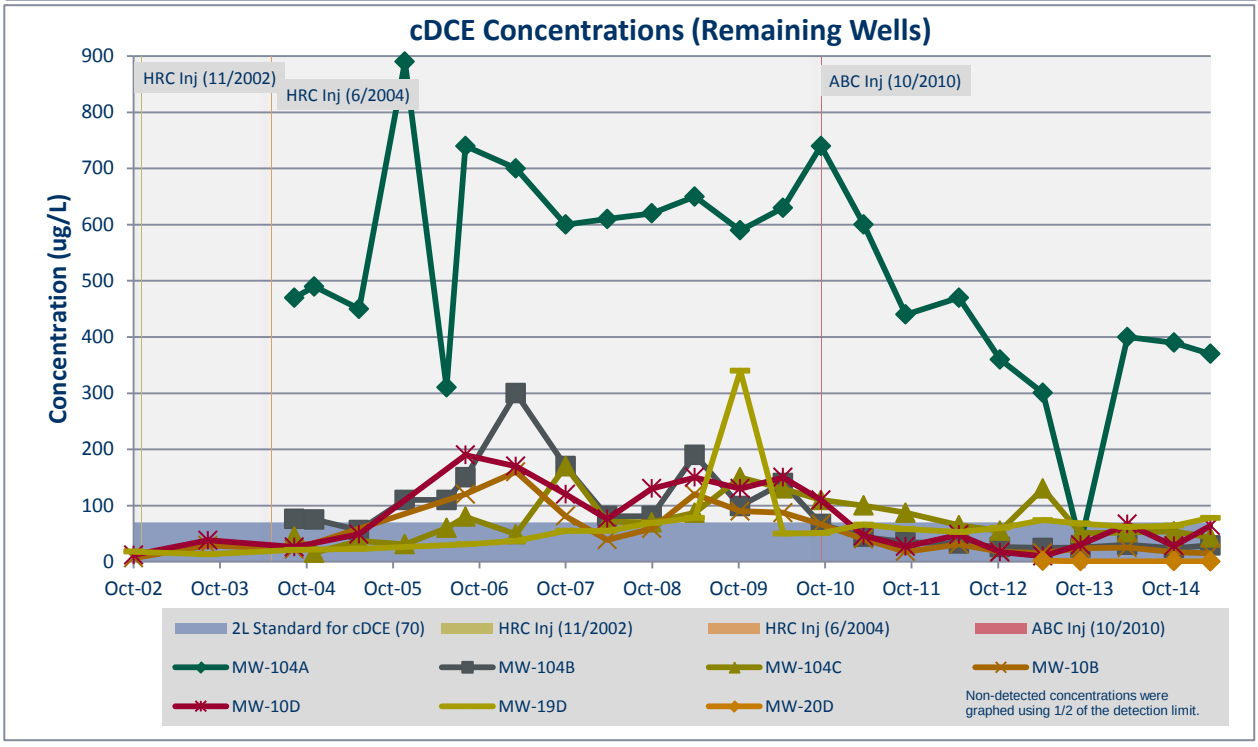
Appendix E

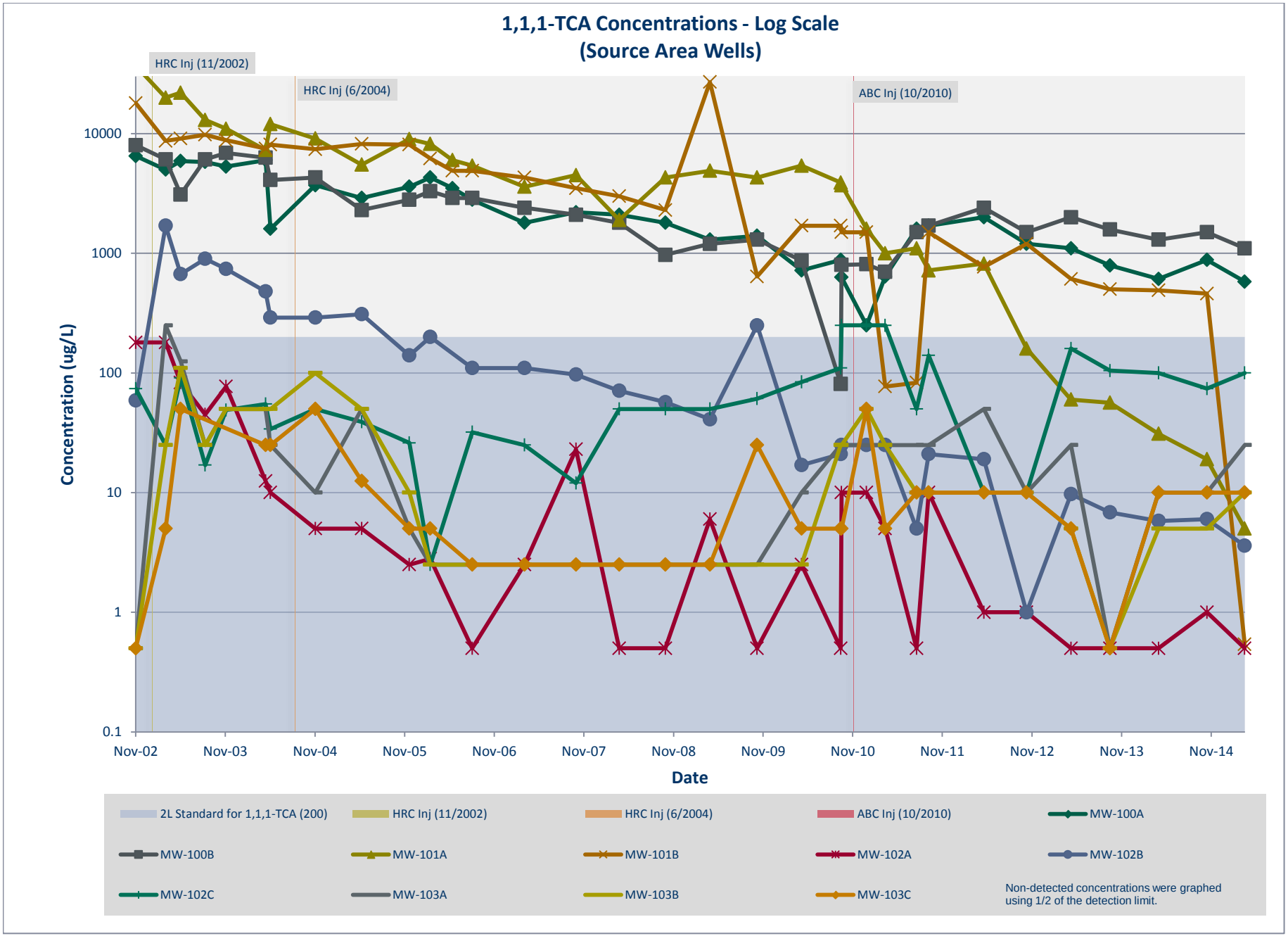
Historical Cumulative Trend Plots for Trichloroethene, cis-1,2-DCE, Freon 113, 1,1,1,-Trichloroethane, and Methylene Chloride

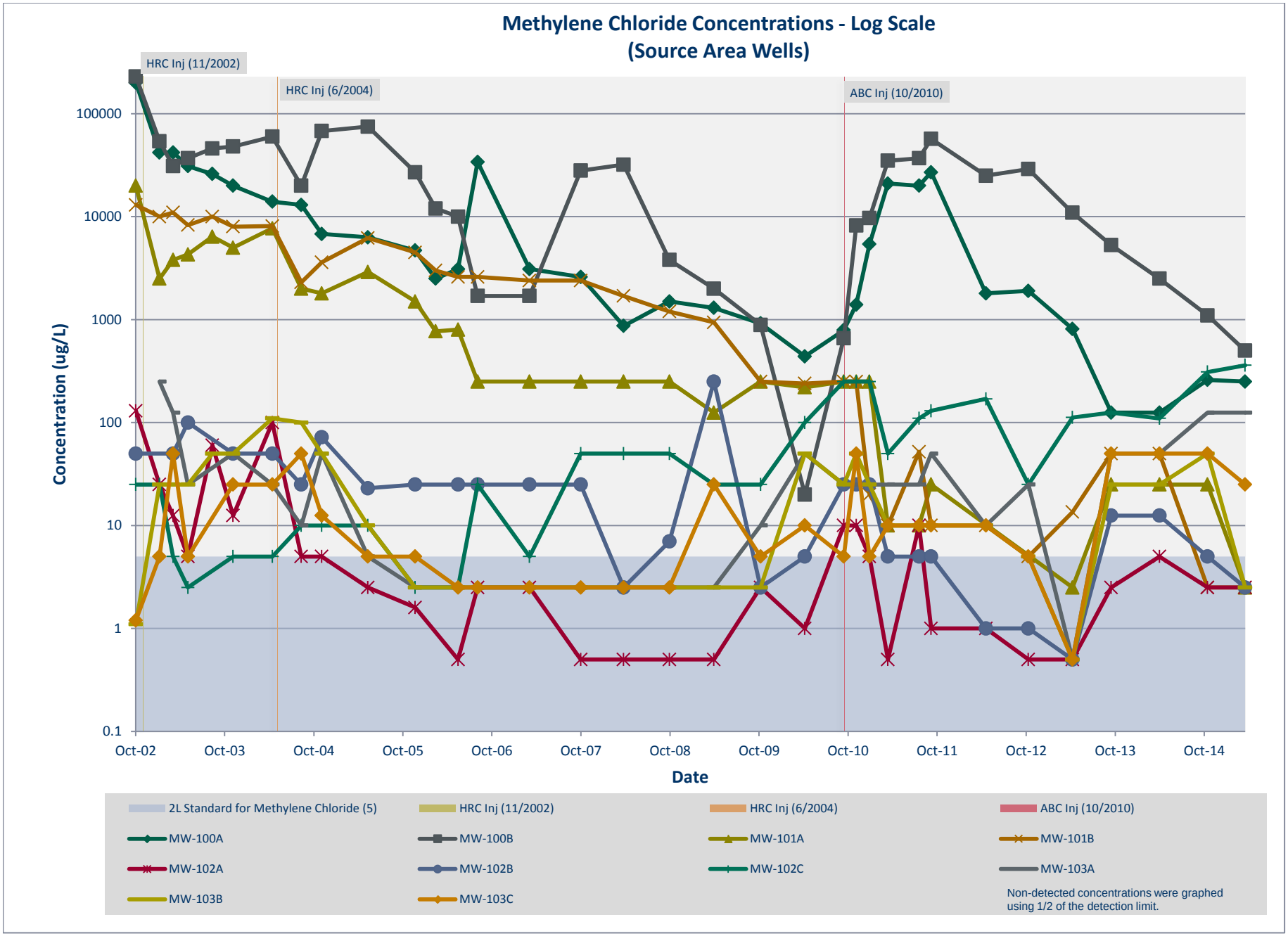

TCE Concentrations (Source Area Wells)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration (ug/L)
400000
350000
300000
250000
200000
150000
100000
50000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
2L Standard for TCE (3)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Non-detected concentrations were graphed using 1/2 of the detection limit.

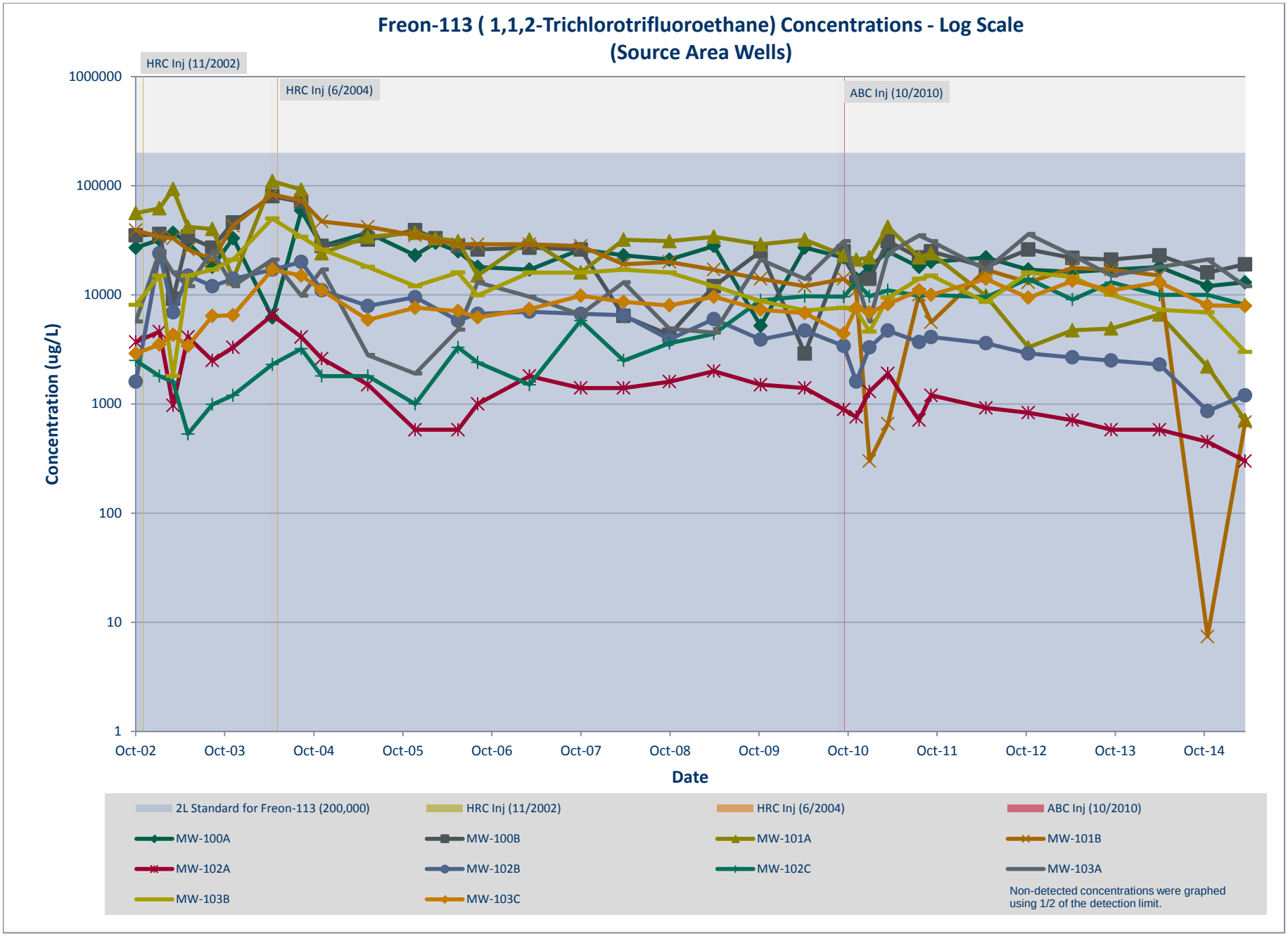

cDCE Concentrations (Source Area Wells)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration (ug/L)
80000
70000
60000
50000
40000
30000
20000
10000
0
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
2L Standard for cDCE (70)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Non-detected concentrations were graphed using 1/2 of the detection limit.


TCE Concentrations (Remaining Wells)
Concentration (ug/L)
30
25
20
15
10
5
0
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
2L Standard for TCE (3)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-104A
MW-104B
MW-104C
MW-10B
MW-10D
MW-19D
MW-20D
Non-detected concentrations were graphed using 1/2 of the detection limit.


cDCE Concentrations (Remaining Wells)
Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
2L Standard for cDCE (70)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-104A
MW-104B
MW-104C
MW-10B
MW-10D
MW-19D
MW-20D
Non-detected concentrations were graphed using 1/2 of the detection limit.

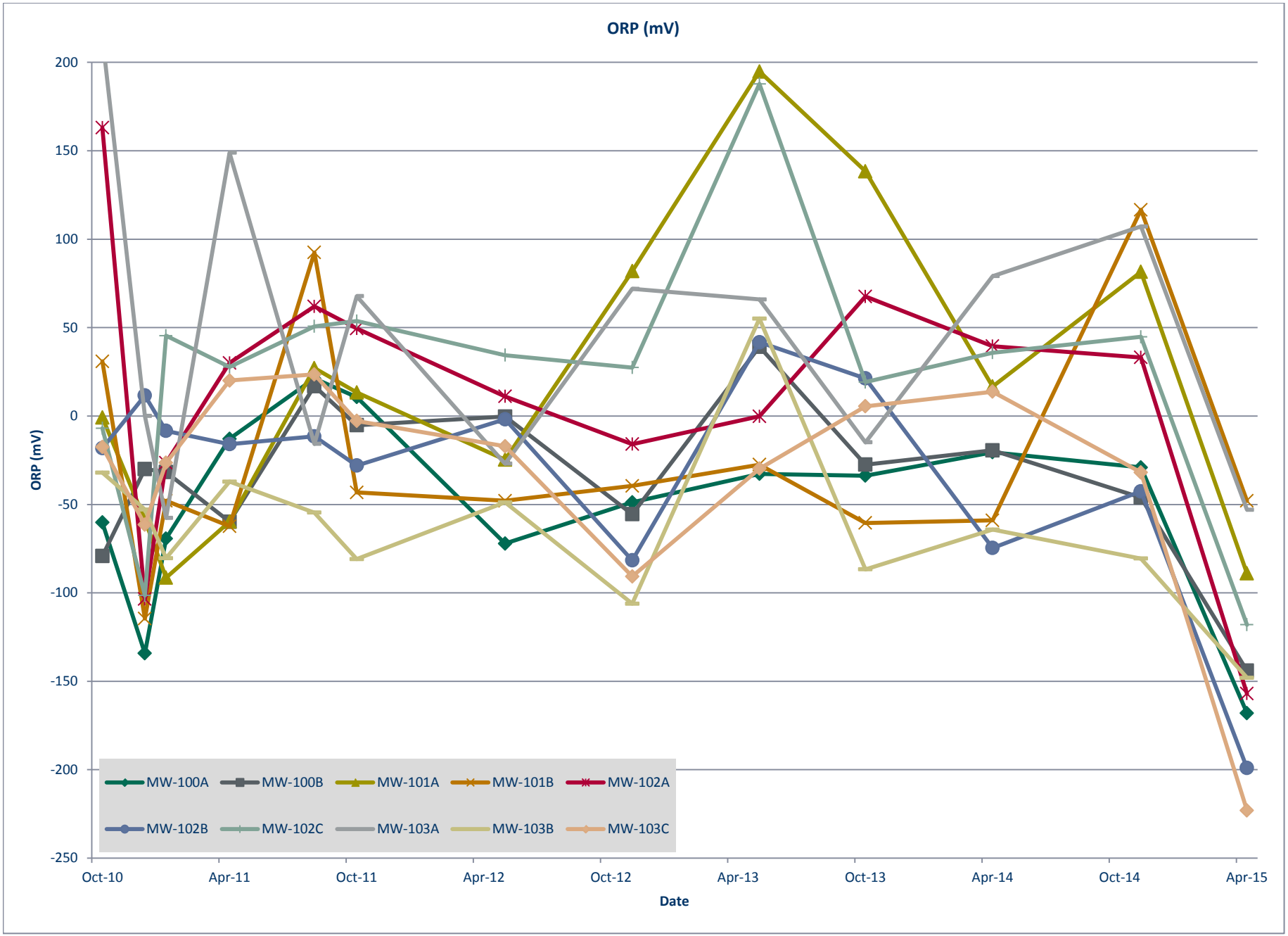

1,1,1-TCA Concentrations - Log Scale
(Source Area Wells)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration (ug/L)
10000
1000
100
10
1
0.1
Nov-02
Nov-03
Nov-04
Nov-05
Nov-06
Nov-07
Nov-08
Nov-09
Nov-10
Nov-11
Nov-12
Nov-13
Nov-14
Date
2L Standard for 1,1,1-TCA (200)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Non-detected concentrations were graphed using 1/2 of the detection limit.

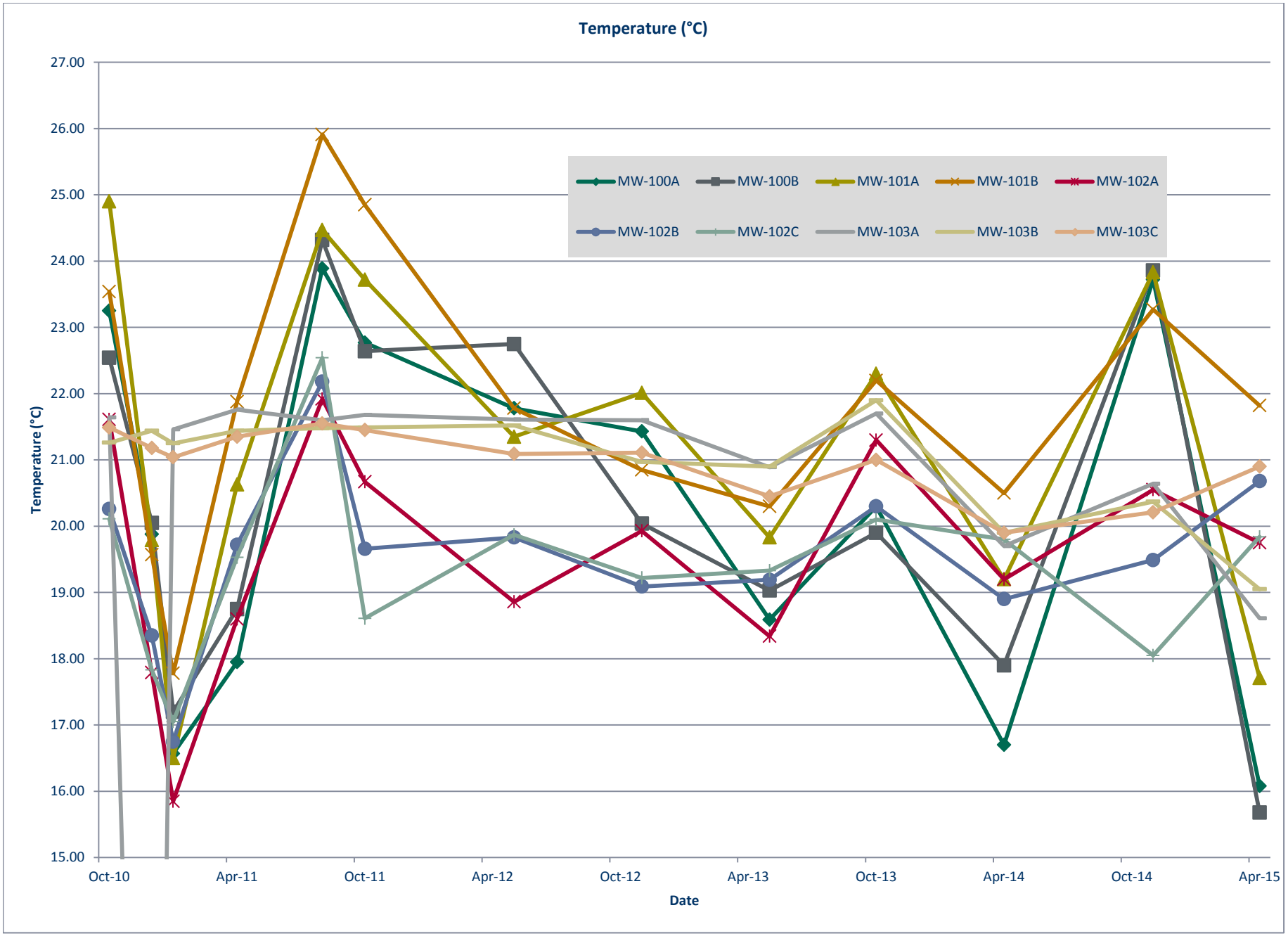

Methylene Chloride Concentrations - Log Scale
(Source Area Wells)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
2L Standard for Methylene Chloride (5)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Non-detected concentrations were graphed using 1/2 of the detection limit.

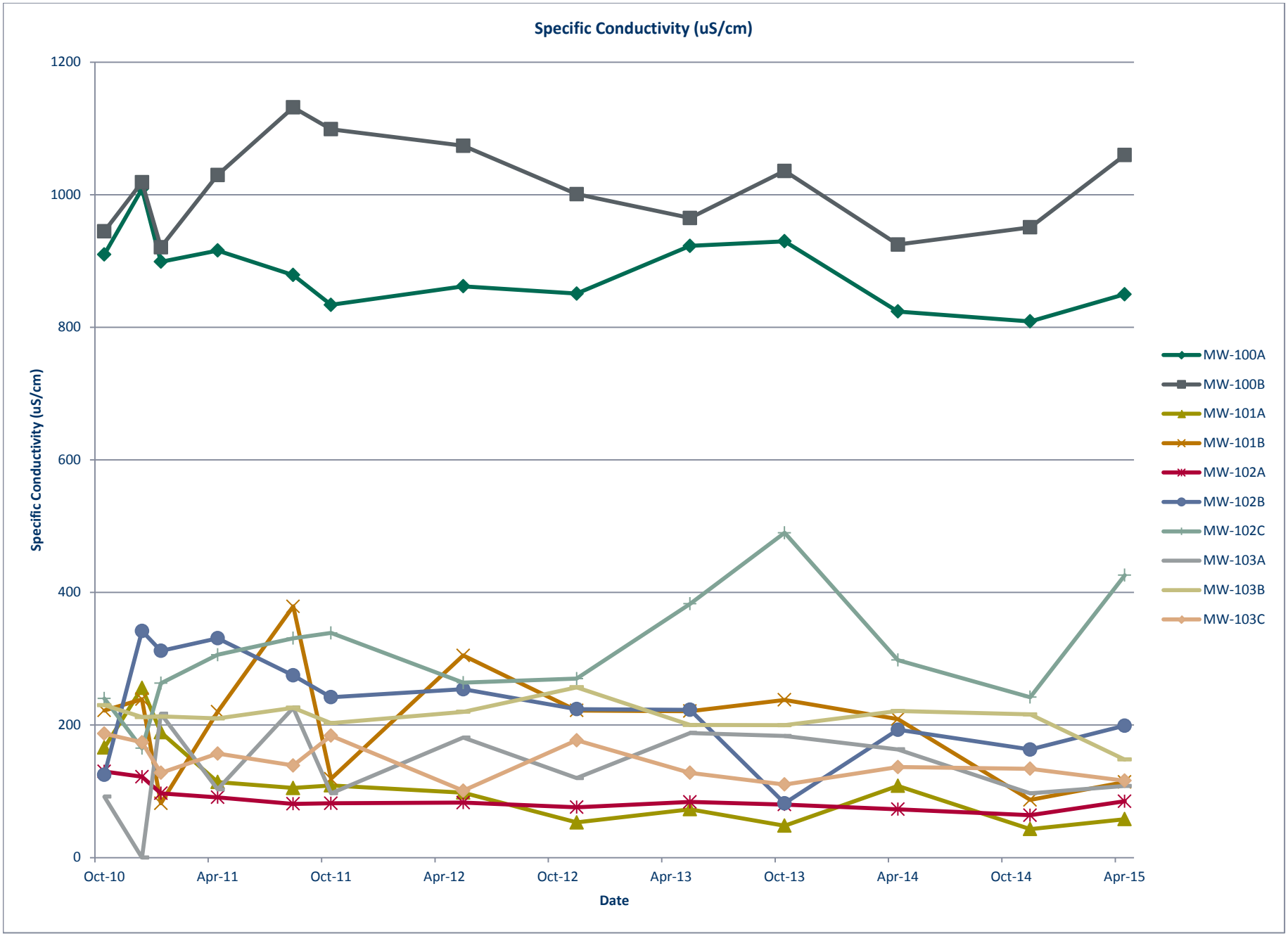

Freon-113 (1,1,2-Trichlorotrifluoroethane) Concentrations - Log Scale
(Source Area Wells)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
Oct-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Oct-08
Oct-09
Oct-10
Oct-11
Oct-12
Oct-13
Oct-14
Date
2L Standard for Freon-113 (200,000)
HRC Inj (11/2002)
HRC Inj (6/2004)
ABC Inj (10/2010)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Non-detected concentrations were graphed using 1/2 of the detection limit.

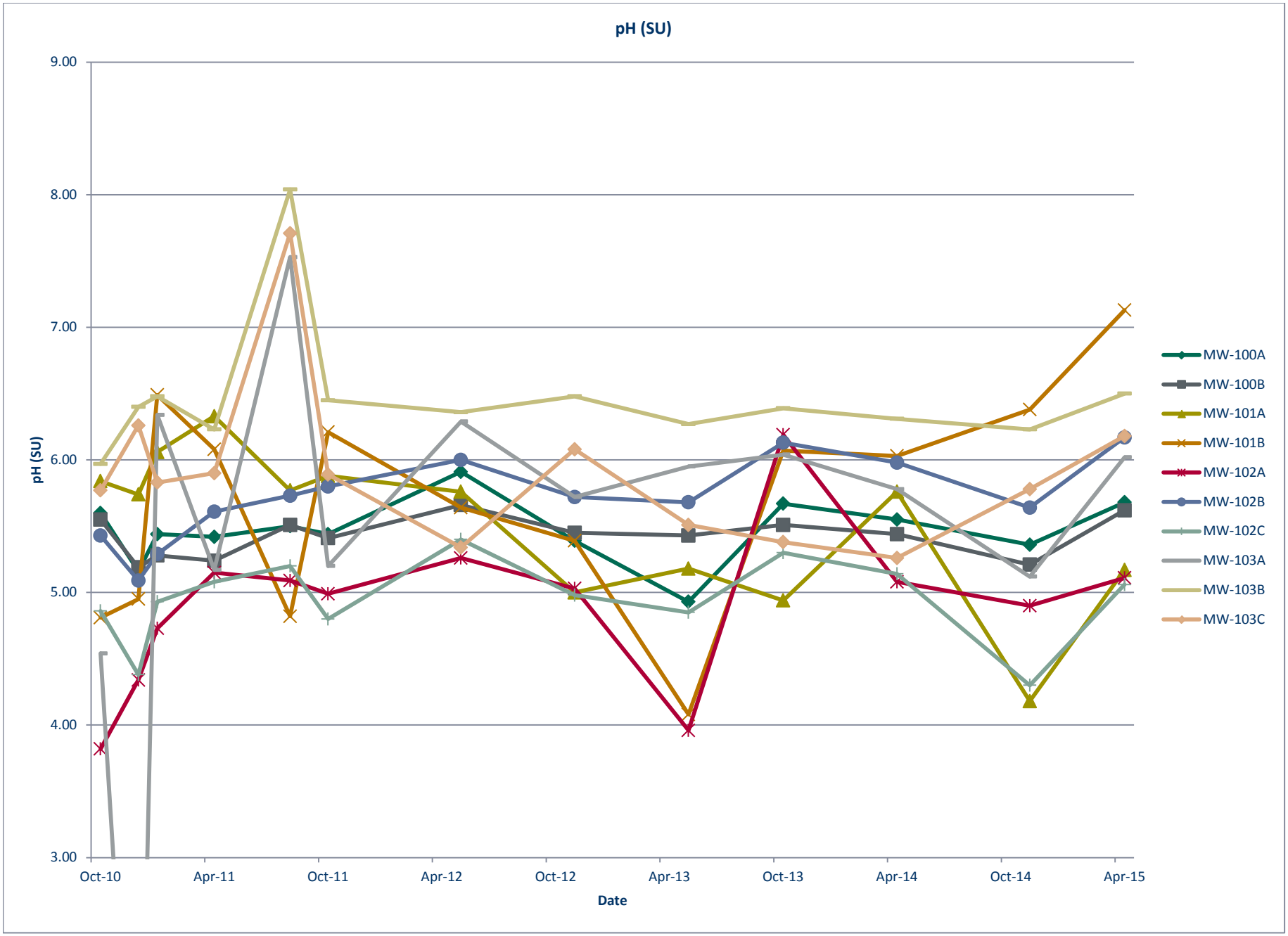
Appendix F

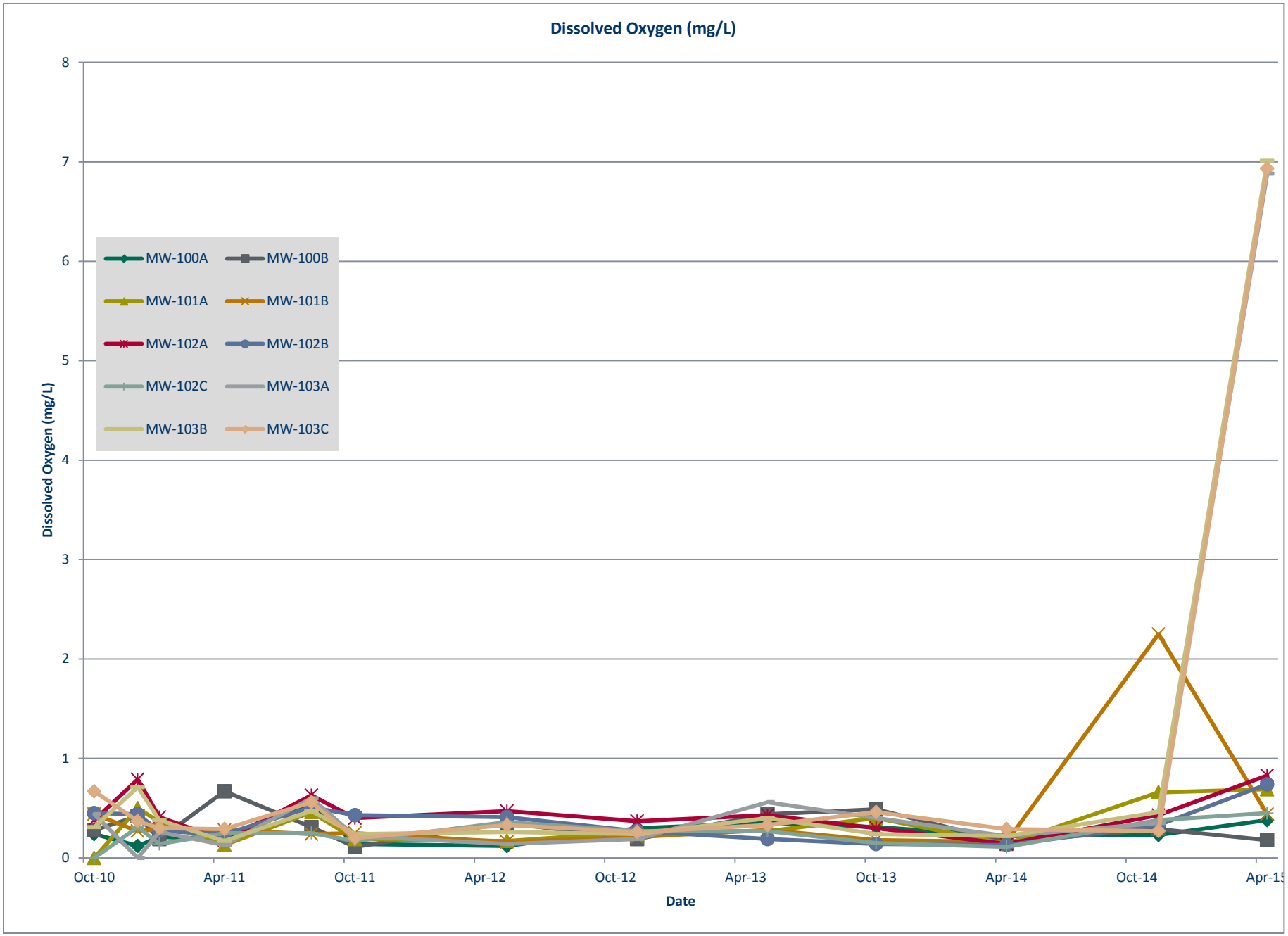
Field Parameter Plots for Selected Wells: October 2010 to November 2014


ORP (mV)
200
150
100
50
0
-50
-100
-150
-200
-250
ORP (mV)
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C


Temperature (°C)
27.00
26.00
25.00
24.00
23.00
22.00
21.00
20.00
19.00
18.00
17.00
16.00
15.00
Temperature (°C)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date


Specific Conductivity (uS/cm)
1200
1000
800
600
400
200
0
Specific Conductivity (uS/cm)
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C


pH (SU)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
pH (SU)
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C


Dissolved Oxygen (mg/L)
8
7
6
5
4
3
2
1
0
Dissolved Oxygen (mg/L)
MW-100A
MW-100B
MW-101A
MW-101B
MW-102A
MW-102B
MW-102C
MW-103A
MW-103B
MW-103C
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date