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QUARTERLY GROUNDWATER MONITORING PROGRESS REPORT – AUGUST 2014

FOR

R.D. PATE ESTATE

101 East Main Street
Pikeville, Wayne County, North Carolina

SITE ID: NONCD0002795

Latitude: 35° 29' 51.46" North Longitude: 77° 58' 59.91" West

August 20, 2014

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EA Site No. 07-7019.12 IHSB SITE ID: NONCD0002795
August 20, 2014

1.0 INTRODUCTION

The Remedial Action Plan (RAP), dated May 7, 2013, approved and implemented at the site (**Figure 1**) includes natural attenuation monitoring (MNA) to remediate the chlorinated solvent-contaminated soil and groundwater at the site. It is anticipated that biodegradation of chlorinated solvents will result in a reduction of volatile organic compounds (VOC) concentrations to below the 15A NCAC 2L Standards and inhibit downgradient migration of contaminants.

The purpose and objectives of the MNA remediation strategy is to reduce and/or monitor the contaminant concentration of the dissolved VOC constituents in the groundwater and prevent the groundwater contaminant plume from migrating further off-site and affecting any nearby receptors (i.e., water supply wells and creeks). The target clean-up concentrations/objectives for the groundwater are the remediation goals in the Guidance document, which are the same as the current version of NCDENR 15A NCAC 2L Ground Water Quality Standards (NCAC 2L Groundwater Standards). The NCAC 2L Groundwater Standards are listed in **Table 4**.

As discussed below, the results of the most recent July 2014 sampling event continue to support the conclusions stated in the previous RI, RAP and Quarterly Monitoring reports:

- The most recent quarterly monitoring event occurred on July 31, 2014. In summary, laboratory analysis for the July 2014 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fourteen (14) of the groundwater samples (MW-1, MW-2, MW-3, MW-5, MW-6, MW-8 through MW-13, MW-18, MW-20 and MW-1X) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, MW-3, MW-5, MW-8 through MW-13 and MW-18).

- The concentrations of chlorinated solvents detected in the groundwater monitoring wells during the July 2014 sampling event indicated an overall slight decrease in total concentrations compared to the previous sampling event in April 2014. Several wells exhibited increasing and decreasing fluctuations of specific solvent concentrations, however, they were slight fluctuations and appear to be related to seasonal fluctuations and not indicative of long term trends. The extent of the groundwater contamination continues to be reasonably defined. The highest concentration of 1,1,2,2-TeCA was detected in groundwater monitoring well MW-11 during the recent July 2014 sampling event compared to groundwater monitoring well MW-18 during the previous April 2014, February 2014 and October 2013 sampling events. The groundwater sample from MW-11 indicated a slight increase in concentration of 1,1,2,2-TeCA during the recent July 2014 sampling event compared to the April 2014 sampling event. The highest concentration of Trichloroethene (TCE) was detected in groundwater monitoring well MW-11 during the recent July 2014 sampling event compared to MW-18 during the previous April 2014 sampling event. The groundwater sample from MW-11 indicated a slight increase in concentration of TCE during the recent July 2014 sampling event compared to the previous April 2014 sampling event.

- Information collected during the recent July 2014 Quarterly Groundwater Monitoring event revealed a general decrease (or no change in historical non-detects) in concentrations of chlorinated solvent constituents <u>and</u> total VOCs in groundwater samples MW-4, MW-6, MW-7, MW-12, MW-13

through MW-19, MW-21 MW-22 and DW-2 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a slight increase in concentrations of chlorinated solvent constituents and a slight decrease in total VOCs in groundwater sample MW-5 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a general increase in concentrations of chlorinated solvent constituents and total VOCs in groundwater samples MW-1, MW-3, and MW-8 through MW-11 compared to the previous sampling event and/or historical data. Laboratory analysis revealed a general increase in total VOCs in groundwater samples MW-2 and MW-20; however, the increase in VOC concentrations was attributable to petroleum constituents and not chlorinated solvents. Laboratory analysis of groundwater sample MW-1X revealed a general decrease in total VOCs and concentrations of petroleum constituents, however, Naphthalene increased compared to the previous sampling event and/or historical data. No chlorinated solvent concentrations were detected in groundwater sample MW-1X during recent the July 2014 or previous sampling events.

- Based on the historical and recent July 2014 groundwater sampling results, several on-site and off-site monitoring wells continue to exhibit chlorinated solvent concentrations that exceed 15A NCAC 2L Groundwater Standards. However, the lateral and vertical extent of the solvent-related groundwater contaminant plume remains reasonably defined by several non-detect sentinel monitoring wells up-gradient (MW-7 and MW-14), cross-gradient (MW-15 and MW-17) and down-gradient (MW-16, MW-19 through MW-22 and MW-1X).

- The solvent constituents (TCE, 1,1,2,2-TeCA, 1,1,2-TCA, PCE and Vinyl chloride) were detected in the groundwater in several of the monitoring wells; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation is occurring in the aquifer.

- Based on the nature of the contaminants, the hydrogeologic properties of the site, and the nature and distance of the nearby receptors, it does not appear that the current contaminant plume has impacted the nearby surface water receptors or water supply wells.

- Since MNA met the remedial objectives of the RAP and the October 2013, February 2014, April 2014 and July 2014 groundwater chemistry data indicate that anaerobic biodegradation continues to occur at the site, it remains supportable as the groundwater remedy for the Site.

Because four (4) successive Quarterly Monitoring Events have been completed since approval of the RAP, subsequent groundwater monitoring events and evaluation of natural attenuation will occur on a semi-annual basis. Therefore, the next Semi-Annual Monitoring Event is scheduled for January 2015.

2.0 QUARTERLY REMEDIATION MONITORING ACTIVITIES

On July 31, 2014, groundwater samples were collected from on-site and off-site monitoring wells MW-1 through MW-22, DW-2 and monitoring well MW-1X (arbitrarily named by EA). The monitoring wells were purged using low flow sampling techniques using a peristaltic pump and dedicated teflon tubing. Prior to purging, the depth to water level reading was taken from the top of casing of each well with a static water

level meter. The well construction and water table data are provided in **Table 1.**

Prior to collecting groundwater quality samples, field measurements were obtained utilizing portable electronic equipment to monitor natural attenuation progress including: pH, specific conductivity, temperature, dissolved oxygen (DO), oxygen reduction potential (ORP), and turbidity were monitored and recorded at five-minute intervals. The field data readings are presented in the Field Parameters Measurements Table (**Table 2**). Once field readings stabilized for three (3) consecutive readings/intervals, groundwater samples were collected for laboratory analysis. The groundwater samples were collected using new gloves and by disconnecting the tubing from the peristaltic pump/flow through cell assembly, creating a seal over the tube opening with gloved finger creating a suction or "straw" effect thus retaining groundwater in the tubing. The tubing was removed from the well and the groundwater samples placed into laboratory-prepared containers. The groundwater samples were collected using new gloves, placed into laboratory-prepared containers (some with preservatives), labeled with identifying numbers and sample information, placed into coolers containing ice, and then transported to Pace Analytical in Huntersville, North Carolina for analysis of VOCs by EPA Method 8260. Quality control and quality assurance samples were collected and analyzed for similar constituents. Chain-of-custody forms were maintained with the samples.

Groundwater samples collected during the recent July 2014 sampling event were not analyzed for geochemical natural attenuation parameters as they are performed periodically. However, during the previous October 2013 sampling event, groundwater samples collected from monitoring wells MW-1, MW-6, MW-7, MW-12 and MW-22 were analyzed for geochemical natural attenuation parameters (alkalinity, chloride, ethane/ethene, ferrous iron – Fe2+, methane, nitrate, sulfate, sulfide and total organic carbon (TOC). The October 2013 Laboratory results are summarized in the Geochemical/Natural Attenuation Parameters Table (**Table 3)** and results are discussed below.

Current and historical groundwater analytical results are presented in **Table 4** and analytical results for July 2014 are depicted on **Figure 2**. Groundwater Isoconcentration Maps – July 2014 are included as **Figures 3**, **4** and **5**. A groundwater Potentiometric Contour Map – July 2014 is included as **Figure 6.** Copies of the field data sheets are included in **Appendix A**. Copies of the laboratory analytical reports and chain of custodies are included in **Appendix C**.

2.1 Hydrogeologic Evaluation

Field personnel performed activities to determine the groundwater flow direction, hydraulic gradient and velocity at the subject Site. On July 31, 2014, field personnel measured the depth to groundwater levels in all 24 monitoring wells. The depth to water in all wells (except deep well DW-2) ranged from 1.27 feet below top of casing (btoc) in MW-4 to 4.29 feet btoc in MW-22. The depth to water during the July 2014 event was relatively similar compared to the April 2014 event.

Using the water table depths, EA then calculated the relative water table elevations at each well point. The casing and water table data are provided on **Table 1**. As shown on the Potentiometric Contour Map (**Figure 6)** the generalized direction of shallow groundwater flow at the Site is generally to the southwest overall and similar to historical data. However, groundwater elevation data for July 2014 indicate potential subdued mounding conditions in the immediate area of the Site likely attributed to seasonal/temporal water table fluctuations.

Based on the potentiometric map for the July 31, 2014 event, shallow groundwater flow beneath the Site is generally towards the southwest overall with an average hydraulic gradient of 0.011 feet/foot. Hydraulic gradients ranged from 0.004 ft/ft to 0.022 ft/ft across Site and vicinity. In addition, separate localized or temporal groundwater flow components may exist to the north and southeast. Seasonal variables, the underlying slope, subsurface variations of the permeable sand/clay unit interface, and slow recharge rates for several wells may also locally influence shallow groundwater flow characteristics. From the water-level data obtained on July 31, 2014 and information in **Table 1**, the vertical gradients in the vicinity of deep well DW-2 along with adjacent shallow wells MW-2, MW-3 and MW-18 represents a downward flow direction which is consistent with previous events. Historical groundwater elevation data is also presented in **Table 1**.

2.2 Quarterly Remediation Monitoring Results

In summary, laboratory analysis for the July 2014 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fourteen (14) of the groundwater samples (MW-1, MW-2, MW-3, MW-5, MW-6, MW-8 through MW-13, MW-1X, MW-18 and MW-20) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, MW-3, MW-5, MW-8 through MW-13 and MW-18).

During the latest groundwater sampling event in July 2014, chlorinated solvent constituents 1,1,2,2,-Tetrachloroethane (1,1,2,2-TeCA), Trichloroethene (TCE), 1,1,2-Trichloroethane (1,1,2-TCA), Tetrachloroethene (PCE) and Vinyl chloride were detected in the groundwater in several monitoring wells at concentrations exceeding their respective NCAC 2L Groundwater Standards as summarized below:

Concentrations of 1,1,2,2-TeCA exceeding the NCAC 2L Groundwater Standard of 0.2 ug/L ranged from 1.1 ug/L in groundwater monitoring well samples MW-3, MW-8 and MW-8DUP to 151 ug/L in groundwater monitoring well sample MW-11 during the recent July 2014 groundwater sampling event. Groundwater samples collected from monitoring wells MW-1(4.6 ug/L), MW-5(1.4 ug/L), MW-9(2.1 ug/L), MW-10(14.3 ug/L), MW-12(5.8 ug/L), MW-13(99.3 ug/L) and MW-18 (123 ug/L) also revealed concentrations of 1,1,2,2-TeCA exceeding the 0.2 ug/L NCAC 2L Groundwater Standard.

Concentrations of TCE exceeding the NCAC 2L Groundwater Standard of 3.0 ug/L ranged from 5.1 ug/L in groundwater monitoring well sample MW-12 to 32.2 ug/L in groundwater monitoring well sample MW-11. Groundwater samples collected from MW-13 (12.6 ug/L) and MW-18(26.1 ug/L) also revealed concentrations of TCE exceeding the 3.0 ug/L NCAC 2L Groundwater Standard.

Concentrations of 1,1,2-TCA exceeding the NCAC 2L Groundwater Standard of 0.6 ug/L were detected in groundwater monitoring well samples MW-11 (1.1 ug/L), MW-13 (0.89J ug/L) and MW-18 (1.2 ug/L).

A concentration of PCE exceeding the NCAC 2L Groundwater Standard of 0.7 ug/L was detected in groundwater monitoring well sample MW-18 (0.89J ug/L).

A concentration of Vinyl chloride exceeding the NCAC 2L Groundwater Standard of 0.03 ug/L was detected in groundwater monitoring well sample MW-12 (4.3 ug/L).

Concentrations of cis-1,2-Dichloroethene (cis-1,2-DCE) continue to be detected in several groundwater monitoring well samples (MW-2, MW-3, MW-11, MW-12, MW-13 and MW-18), however they do not

exceed the NCAC 2L Groundwater Standard of 70 ug/L. The cis-1,2-DCE concentrations ranged from 1.1 ug/L in groundwater monitoring well sample MW-10 to 10.5 ug/L in groundwater monitoring well sample MW-2.

The "J" values indicate a concentration detected above the laboratory method detection limit but below the laboratory reporting limit.

Concentrations of one or more petroleum constituents exceeding their respective NCAC 2L Groundwater Standards were detected in groundwater monitoring well samples MW-2, MW-3, MW-6, MW-12, MW-1X and MW-20. Concentrations of Benzene exceeding the NCAC 2L Groundwater Standard of 1.0 ug/L were detected in groundwater monitoring well samples MW-2 (502 ug/L), MW-3 (5.1 ug/L), MW-12 (127 ug/L) and MW-20 (1.2J ug/L). Concentrations of Naphthalene exceeding the NCAC 2L Groundwater Standard of 6 ug/L were detected in groundwater monitoring well samples MW-2 (262 ug/L), MW-6 (11.1 ug/L), MW-12 (48.1 ug/L) and MW-20 (432 ug/L).

Groundwater monitoring well sample MW-20 revealed Benzene, Methylene Chloride and Naphthalene concentrations exceeding the NCAC 2L Groundwater Standards of 1 ug/L for Benzene, 5 ug/L for Methylene Chloride and 6 ug/L for Naphthalene. In addition, several additional petroleum constituents were detected in groundwater monitoring well sample MW-20 at concentrations below their respective NCAC 2L Groundwater Standards. The petroleum concentrations detected in groundwater sample MW-20 appear to be associated with a petroleum release from an existing UST in the concrete sidewalk and asphalt roadway (Northwest Railroad Street) to the east of the Howell Brothers Grocery property at 101 West Main Street. The UST was discovered during the installation of groundwater monitoring well MW-20 in March 2013 and is being addressed separately by the UST Section.

Laboratory analysis of groundwater monitoring well samples MW-4, MW-7, MW-14 through MW-17, MW-19, MW-22 and DW-2 did not reveal concentrations of target analytes exceeding NCAC 2L Groundwater Standards. A duplicate groundwater monitoring well sample (MW-8 DUP) from monitoring well MW-8 revealed a 1,1,2,2-TeCA concentration of 1.1 ug/L, which exceeds the respective NCAC 2L Groundwater Standard of 0.2 for 1,1,2,2-TeCA. Duplicate groundwater sample MW-8 DUP also revealed a Diisopropyl ether (DIPE) concentration of 0.58J ug/L, which is below the respective NCAC 2L Groundwater Standard of 70 ug/L for DIPE. The constituent concentrations detected in groundwater monitoring well sample MW-8 DUP were similar to the concentrations detected in groundwater sample MW-8.

Quality control and quality assurance (QC/QA) trip blank sample TB-1, QC/QA field blank sample FB-1 and the equipment rinsate blank sample RB-1 did not reveal detectable concentrations of target analytes.

Based on the historical and recent July 2014 groundwater sampling results, several on-site and off-site monitoring wells exhibit chlorinated solvent concentrations that exceeded 15A NCAC 2L Groundwater Standards. Based on sampling results, Groundwater Potentiometric and Isoconcentration Maps, the lateral and vertical extent of the solvent-related groundwater contaminant plume remains reasonably defined by several non-detect sentinel monitoring wells up-gradient (MW-7 and MW-14), cross-gradient (MW-15 and MW-17) and down-gradient (MW-16, MW-19 through MW-22 and MW-1X).

The horizontal migration of solvent (and petroleum) contaminants appears to be primarily influenced by the direction of groundwater flow along with seasonal and temporal fluctuations. The vertical migration of solvent contaminants appears to be primarily influenced and limited by the clay confining unit to less than 50

feet below grade as evidenced by current and historical non-detects in vertical extent well DW-2, located downgradient and/or within the source area wells (MW-1, MW-11, MW-12, MW-13 and MW-18). Underground utility pathways along SE Railroad Street may also be influencing contaminant migration to the south near MW-6.

Graphs of contaminant Concentration vs Time for several key monitoring wells are included in **Appendix B**. The graphs depict key detected contaminants, sampling dates and trends. The graphs for monitoring wells with early historical data (MW-1 through MW-7) generally show an overall decline over time to date for most contaminants of concern. Graphs for monitoring wells with less historical data (MW-8 through MW-22) show fluctuating (decreasing and increasing) trends over time to date for several contaminants of concern, however, additional data points are required to determine actual long term trends.

Based on the laboratory analytical results of groundwater monitoring for July 2014, constituent plume maps for 1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA), Trichloroethene (TCE) and total VOCs in groundwater were prepared (see **Figures 3 through 5**). As shown on the current and historical maps, the horizontal extent of VOCs detected in the groundwater is reasonably defined. The vertical extent of VOCs in the groundwater appears to be reasonably defined by Type III vertical extent monitoring well DW-2 to less than 50 feet (casing depth) and no VOC concentrations have been historically detected in this well to date.

3.0 EFFECTIVENESS OF REMEDIATION

3.1 Summary of Groundwater Modeling to Date

The purpose and objective of the Monitored Natural Attenuation (MNA) remediation strategy is to reduce and/or monitor the contaminant concentration of contamination in the dissolved VOC constituents in the groundwater and prevent the groundwater contaminant plume from migrating further off-site and affecting any nearby receptors (i.e., water supply wells and creeks). The target clean-up concentrations/objectives for the groundwater are the remediation goals in the Guidance document, which are the same as the current version of NCDENR 15A NCAC 2L Ground Water Quality Standards (NCAC 2L Groundwater Standards). The NCAC 2L Groundwater Standards are listed in **Table 4**.

BIOCHLOR and SourceDK models were used in the RAP to evaluate wells MW-1, MW-11 and MW-12 because these wells have been sampled several times and they indicated a decreasing concentration trend over the last few sampling events. The degradation of 1,1,2,2-TeCA and TCE was modeled for these three wells. The 1,1,2,2-TeCA concentration in the wells was predicted to achieve the North Carolina groundwater standard of 0.2 ug/l in seven to 18 years (2020 to 2031). The TCE concentrations in the wells were predicted to achieve the North Carolina groundwater standard of 3 ug/L in five to seven years (2018 to 2020); the concentration of TCE in sampling events in 2008 and 2011 were below the standard.

Based on the outputs of the BIOCHLOR and Source DK models, the concentrations of 1,1,2,2-TeCA and TCE appear to be decreasing at a rate which indicates some diminution processes are at work in some of the wells. Daughter products (TCE, cis-1,2-DCE, 1,1,2-TCA and Vinyl chloride) which are produced as a result of either abiotic or microbial-mediated degradation were detected along the centerline of the plume in several wells. The petroleum constituents (BTEX) detected in many of the wells at or near the sources may provide a

source of carbon to be used as energy for microbes, thereby allowing reductive dechlorination to take place in the wells. It is also possible that the historical fluctuation but overall decrease in 1,1,2,2-TeCA, PCE and TCE in the main portion of the plume is a result of dilution and dispersion.

3.2 Hydrogeologic and Geochemical Data Parameters

The BIOCHLOR program includes a Natural Attenuation Screening Protocol, based on the USEPA *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater* (USEPA 1998). The screening protocol evaluates the evidence of anaerobic biodegradation. Table 2.3 of the USEPA technical protocol (USEPA 1998) indicates the parameters which should be evaluated in order to determine if anaerobic biodegradation is likely to occur. A subset of that table including those parameters applicable to determining if reductive dechlorination will occur at the Site was provided in the previously submitted Remedial Action Plan (RAP) and the Quarterly Groundwater Monitoring Progress Report – October 2013 for the Site. The analytical parameters from the screening protocol were evaluated at the Site, which provided a qualitative evaluation of whether analytical results predict a condition which would support anaerobic biodegradation.

In March 2013 and October 2013, field personnel collected field data and analyzed several monitoring wells for degradation parameters. As shown in **Table 2** and **Table 3**, several of the parameters analyzed were generally within the recommended range for natural attenuation throughout the site groundwater for both events:

- pH
- ORP
- Ferrous Iron
- Nitrate
- Sulfate
- Methane

In addition, degradation products (TCE, 1,1,2-TCA, cis 1,2-DCE and Vinyl chloride) were detected in several of the monitoring wells in March 2013, October 2013, February 2014, April 2014 and July 2014.

The screening protocol assigns a point value for each parameter based on the results. The total point value can be interpreted as follows:

- 0 – 5 Inadequate evidence of anaerobic biodegradation
- 6 – 14 Limited evidence of anaerobic biodegradation
- 15 – 20 Adequate evidence of anaerobic biodegradation
- >20 Strong evidence of anaerobic biodegradation

Based on the initial March 2013 data collected**,** the site score in various areas across the contaminant plume varied from 3 to 21 and the well in the middle of the contaminant plume (MW-12) scored a 21 indicating that **there is evidence of anaerobic biodegradation at the subject site.** Based on the October 2013 data collected**,** the site score in various areas across the contaminant plume varied from 1 to 24 and the well in the middle of the contaminant plume (MW-12) scored 24 indicating **limited to strong evidence of anaerobic biodegradation activity at the subject site.**

Based on the March 2013 and October 2013 datasets, there is adequate evidence to defensibly support that anaerobic biodegradation is occurring naturally at the site. Also, the presence of PCE and 1,1,2,2-TeCA degradation daughter products in several other monitoring wells during the April 2014 sampling event indicates that enhanced biodegradation continues to be a viable technology for reducing contaminant concentrations.

Summary

Based on the information presented above, MNA continues to meet the remedial objectives for the Site as follows:

- Source Control – The contaminant sources were removed and additional contaminated soil will be removed. The BIOCHLOR modeling indicated a reduction over time, and the groundwater plume has not migrated, therefore, the secondary source is under control.
- Protection of Human Health - Current concentrations of 1,1,2,2-TeCA, TCE and Vinyl chloride exceed the risk-based screening levels off-site and extend onto commercial properties. The Source DK model indicated that the chlorinated solvent concentrations in some wells would not decrease to the level protective of human health for up to approximately 20 years. However, there are no water supply wells in use for potable water in the immediate area. The nearest well in use is located 1,100 feet to the northeast (upgradient) of the source area. The nearest surface water feature is located 1,500 feet southeast of the source area. Based on site conditions, contaminant migration will not result in a violation of applicable surface water or groundwater standards at existing or foreseeable receptors.
- Protection of Groundwater - Off-site groundwater concentrations to the south-southeast currently exceed the North Carolina standards, however, the contaminant concentrations appear to be decreasing overall in some wells and the groundwater is not used in the area. Based on the recent sampling event and initial modeling, contaminants have the capacity to degrade or attenuate under current site conditions. Also, based on the modeling and apparent lack of plume movement, the time and direction of contaminant travel can be predicted with reasonable certainty.
- Protection of Surface Water – There are no surface water features within 1,500 feet of the source area. Based on site conditions and modeling, the contaminant plume is not expected to intercept surface waters and the groundwater discharge will not possess contaminant concentrations that would result in violations of standards for surface waters contained in 15A NCAC 2B .0200.

The solvent constituents (TCE, 1,1,2,2-TeCA, 1,1,2-TCA, PCE, cis-1,2-DCE and Vinyl chloride) continue to be detected at varying levels in the groundwater in several of the monitoring wells in July 2014; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation continues to occur in the aquifer.

Since MNA met the remedial objectives of the RAP and the October 2013, February 2014, April 2014 and July 2014 groundwater chemistry data indicated that anaerobic biodegradation continues to occur at the site, it remains supportable as the groundwater remedy for the Site. The use of MNA to meet the remedial objectives of the RAP will continue to be evaluated during subsequent sampling events.

4.0 TECHNICAL METHODS, QUALITY ASSURANCE/QUALITY CONTROL, HEALTH AND SAFETY

Field sample collection techniques and procedures were conducted in general accordance with those described in the Field Sampling and Analysis Plan (FSAP) and analytical information and information concerning the QA/QC process are included in the Quality Assurance Project Plan (QAPP), both previously prepared for implementation as part of the original *Remedial Investigation WorkPlan* dated March 31, 2010 and *Remedial Investigation WorkPlan- Addendum dated June 11, 2012*.

The procedures for sample collection, preservation, handling, chain of custody, field-equipment operation, decontamination and preventive maintenance were conducted in general accordance with the USEPA, Region IV, Science and Ecosystem Support Division (SESD) *Field Branches Quality System and Technical Procedures* (FBQSTP). The FBQSTP supersedes the *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM), dated November 2001. The most recent version of the FBQSTP is located at www.epa.gov/region4/sesd/fbqstp. Additionally, the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch (IHSB), Inactive Hazardous Site Program *Guidelines for Assessment and Cleanup*, dated August 2011, were followed.

A Site-Specific Health and Safety Plan (HASP) was previously prepared as part of implementation of the original WorkPlan dated March 31, 2010. The HASP procedures were adhered to during the Remedial Investigation and subsequent field and sampling activities to date in order eliminate or minimize job hazards to Site workers and the surrounding community.

4.1 Investigation Derived Waste

Investigation derived waste includes purge water generated from the groundwater sampling events. Purge water is containerized in 55 gallon steel drums and stored at the Site for future disposal. The drum contents of purge water were previously determined to be non-hazardous material.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the most recent July 2014 sampling event continue to support the conclusions stated in the previous RI, RAP and Quarterly Monitoring reports:

- The most recent quarterly monitoring event occurred on July 31, 2014. In summary, laboratory analysis for the July 2014 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fourteen (14) of the groundwater samples (MW-1, MW-2, MW-3, MW-5, MW-6, MW-8 through MW-13, MW-18, MW-20 and MW-1X) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, MW-3, MW-5, MW-8 through MW-13 and MW-18).

- The concentrations of chlorinated solvents detected in the groundwater monitoring wells during the July 2014 sampling event indicated an overall slight decrease in total concentrations compared to the previous sampling event in April 2014. Several wells exhibited increasing and decreasing fluctuations

of specific solvent concentrations, however, they were slight fluctuations and appear to be related to seasonal fluctuations and not indicative of long term trends. The extent of the groundwater contamination continues to be reasonably defined. The highest concentration of 1,1,2,2-TeCA was detected in groundwater monitoring well MW-11 during the recent July 2014 sampling event compared to groundwater monitoring well MW-18 during the previous April 2014, February 2014 and October 2013 sampling events. The groundwater sample from MW-11 indicated a slight increase in concentration of 1,1,2,2-TeCA during the recent July 2014 sampling event compared to the April 2014 sampling event. The highest concentration of Trichloroethene (TCE) was detected in groundwater monitoring well MW-11 during the recent July 2014 sampling event compared to MW-18 during the previous April 2014 sampling event. The groundwater sample from MW-11 indicated a slight increase in concentration of TCE during the recent July 2014 sampling event compared to the previous April 2014 sampling event.

- Information collected during the recent July 2014 Quarterly Groundwater Monitoring event revealed a general decrease (or no change in historical non-detects) in concentrations of chlorinated solvent constituents <u>and</u> total VOCs in groundwater samples MW-4, MW-6, MW-7, MW-12, MW-13 through MW-19, MW-21 MW-22 and DW-2 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a slight increase in concentrations of chlorinated solvent constituents and a slight decrease in total VOCs in groundwater sample MW-5 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a general increase in concentrations of chlorinated solvent constituents <u>and</u> total VOCs in groundwater samples MW-1, MW-3, and MW-8 through MW-11 compared to the previous sampling event and/or historical data. Laboratory analysis revealed a general increase in total VOCs in groundwater samples MW-2 and MW-20; however, the increase in VOC concentrations was attributable to petroleum constituents and not chlorinated solvents. Laboratory analysis of groundwater sample MW-1X revealed a general decrease in total VOCs <u>and</u> concentrations of petroleum constituents, however, Naphthalene increased compared to the previous sampling event and/or historical data. No chlorinated solvent concentrations were detected in groundwater sample MW-1X during recent the July 2014 or previous sampling events.

- Based on the historical and recent July 2014 groundwater sampling results, several on-site and off-site monitoring wells continue to exhibit chlorinated solvent concentrations that exceed 15A NCAC 2L Groundwater Standards. However, the lateral and vertical extent of the solvent-related groundwater contaminant plume remains reasonably defined by several non-detect sentinel monitoring wells up-gradient (MW-7 and MW-14), cross-gradient (MW-15 and MW-17) and down-gradient (MW-16, MW-19 through MW-22 and MW-1X).

- The solvent constituents (TCE, 1,1,2,2-TeCA, 1,1,2-TCA, PCE and Vinyl chloride) were detected in the groundwater in several of the monitoring wells; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation is occurring in the aquifer.

- Based on the nature of the contaminants, the hydrogeologic properties of the site, and the nature and distance of the nearby receptors, it does not appear that the current contaminant plume has impacted the nearby surface water receptors or water supply wells.

- Since MNA met the remedial objectives of the RAP and the October 2013, February 2014, April 2014 and July 2014 groundwater chemistry data indicate that anaerobic biodegradation continues to occur at the site, it remains supportable as the groundwater remedy for the Site.

No additional assessment of the contaminant plume extents is recommended at this time. If future groundwater sampling events indicate that the constituent concentrations are increasing in perimeter and/or deeper wells, then we recommend installing additional monitoring wells to further define the contaminant plume.

Because four (4) successive Quarterly Monitoring Events have been completed since approval of the RAP, subsequent groundwater monitoring events and evaluation of natural attenuation will occur on a semi-annual basis. Therefore, the next Semi-Annual Monitoring Event is scheduled for January 2015.

6.0 CERTIFICATIONS

For Remediating Party and REC certification statements, please review the following pages.

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME R.D. Pate Estate
DATE & NAME OF DOCUMENT Quarterly Groundwater Monitoring Report - August 2014
TYPE OF SUBMITTAL (circle all that apply): Report Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Branch Banking and Trust Company, Trustee
Ever Owens, Vice President, Personal Trust Specialist
Name of Remediating Party

Signature of Remediating Party

08-21-2014
Date

NOTARIZATION

North Carolina (Enter State)

Wake COUNTY

I, Megan Kavlock, a Notary Public of said County and State, do hereby certify that Ever Owens did personally appear and sign before me this day, produced proper identification in the form of NCDL, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 21 day of August, 2014.

Notary Public (signature)

(OFFICIAL SEAL)

MEGAN KAVLOCK NOTARY PUBLIC DURHAM COUNTY, NC

My commission expires: 9·17·2014

Document Certification Form No. DC - 1
(Revised 8/11)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME R.D. Pate Estate
DATE & NAME OF DOCUMENT Quarterly Groundwater Monitoring Report - August 2014
TYPE OF SUBMITTAL (circle all that apply) Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Gary K. Sawyer
Name of Registered Site Manager

Signature of Registered Site Manager

8-27-2014
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Gary K. Sawyer
Name of Registered Site Manager

Signature of Registered Site Manager

8-27-2014
Date

NOTARIZATION

N.C. (Enter State)

Union **COUNTY**

I, Kathy L. Bass, a Notary Public of said County and State, do hereby certify that Gary K. Sawyer did personally appear and sign before me this day, produced proper identification in the form of NC DL, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 27 day of August, 2014

Kathy L. Bass
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: Sept. 17, 2014

Document Certification Form No. DC - II
(Revised 8/11)

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION/WATER LEVEL INFORMATION
R.D. PATE ESTATE
IHSB SITE ID NUMBER: NONCD0002795
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS - PROJECT NO. 07-7019.13

Well I.D.	Installation Date	Well Inner Diameter (in.)	Total Well Depth (ft., bgs)	Screened Interval (ft., bgs)	Top of Casing Relative Elevation (ft.)	DTW 9/11/07 (ft., TOC)	Relative Water Table Elevation (ft.) 9/11/2007	DTW 4/5/11 (ft., TOC)	Relative Water Table Elevation (ft.) 4/5/2011	DTW 2/19/13 (ft., TOC)	Relative Water Table Elevation (ft.) 2/19/2013	DTW 3/18/13 (ft., TOC)	Relative Water Table Elevation (ft.) 3/18/2013	DTW 10/8/13 (ft., TOC)	Relative Water Table Elevation (ft.) 10/8/2013	DTW 2/10/14 (ft., TOC)	Relative Water Table Elevation (ft.) 2/10/2014	DTW 4/23/14 (ft., TOC)	Relative Water Table Elevation (ft.) 4/23/2014	DTW 7/31/14 (ft., TOC)	Relative Water Table Elevation (ft.) 7/31/2014
MW-1	9/5/2007	2	14	4 to 14	136.15	6.59	129.56	3.70	132.45	3.34	132.81	3.44	132.71	5.84	130.31	3.08	133.07	2.80	133.35	2.53	133.62
MW-2	9/5/2007	2	14	4 to 14	135.45	5.88	129.57	3.50	131.95	nm	nm	3.16	132.29	5.08	130.37	2.92	132.53	2.74	132.71	2.50	132.95
MW-3	9/5/2007	2	14	4 to 14	135.70	6.10	129.60	3.89	131.81	3.22	132.48	2.82	132.88	5.26	130.44	2.48	133.22	2.46	133.24	2.70	133.00
MW-4	9/5/2007	2	14	4 to 14	135.75	5.70	130.05	2.43	133.32	nm	nm	2.00	133.75	5.42	130.33	1.37	134.38	1.32	134.43	1.27	134.48
MW-5	6/3/2008	1	14	4 to 14	136.30	na	na	3.85	132.45	nm	nm	3.38	132.92	6.11	130.19	2.97	133.33	2.77	133.53	2.47	133.83
MW-6	6/3/2008	1	14	4 to 14	135.16	na	na	3.94	131.22	3.93	131.23	4.22	130.94	5.03	130.13	4.01	131.15	3.82	131.34	3.23	131.93
MW-7	7/15/2008	2	15	5 to 15	136.76	na	na	4.13	132.63	3.59	133.17	3.79	132.97	6.69	130.07	3.29	133.47	3.06	133.70	2.79	133.97
MW-8	3/30/2011	1	28	18 to 28	135.81	na	na	19.15	116.66	4.25	131.56	9.61	126.20	3.48	132.33	3.66	132.15	3.35	130.70	3.92	131.89
MW-9	3/30/2011	1	28	18 to 28	136.60	na	na	14.43	122.17	4.92	131.68	8.37	128.23	2.75	133.85	3.17	133.43	5.11	131.49	3.54	133.06
MW-10	3/30/2011	1	28	18 to 28	136.45	na	na	21.54	114.91	nm	nm	12.45	124.00	2.93	133.52	3.42	133.03	3.18	133.27	3.98	132.47
MW-11	3/31/2011	1	28	18 to 28	136.26	na	na	10.51	125.75	4.32	131.94	5.05	131.21	4.37	131.89	5.12	131.14	4.00	132.26	3.48	132.78
MW-12	3/31/2011	1	15	5 to 15	136.20	na	na	4.56	131.64	4.21	131.99	4.39	131.81	5.86	130.34	4.20	132.00	3.94	132.26	3.50	132.70
MW-13	3/31/2011	1	28	18 to 28	136.38	na	na	18.66	117.72	nm	nm	10.58	125.80	3.91	132.47	3.66	132.72	3.79	132.59	3.35	133.03
MW-14	3/15/2013	1	15	5 to 15	136.35	na	na	na	na	na	na	3.36	132.99	6.29	130.06	2.86	133.49	2.68	133.67	2.45	133.90
MW-15	3/15/2013	1	15	5 to 15	135.66	na	na	na	na	na	na	3.51	132.15	5.03	130.63	2.73	132.93	2.79	132.87	2.65	133.01
MW-16	3/15/2013	1	15	5 to 15	134.82	na	na	na	na	na	na	3.89	130.93	4.29	130.53	3.65	131.17	3.55	131.27	3.40	131.42
MW-17	3/15/2013	1	15	5 to 15	136.54	na	na	na	na	na	na	3.89	132.65	6.30	130.24	3.49	133.05	3.21	133.33	2.95	133.59
MW-18	3/16/2013	1	15	5 to 15	136.17	na	na	na	na	na	na	5.44	130.73	4.97	131.20	3.27	132.90	3.30	132.87	2.93	133.24
MW-19	3/16/2013	1	15	5 to 15	135.46	na	na	na	na	na	na	10.52	124.94	3.79	131.67	4.17	131.29	2.99	132.47	2.50	132.96
MW-20	3/16/2013	1	15	5 to 15	135.31	na	na	na	na	na	na	3.65	131.66	4.16	131.15	3.25	132.06	3.03	132.28	2.53	132.78
MW-21	3/16/2013	1	15	5 to 15	135.20	na	na	na	na	na	na	4.50	130.70	5.02	130.18	4.28	130.92	4.09	131.11	3.31	131.89
MW-22	3/16/2013	1	15	5 to 15	134.96	na	na	na	na	na	na	5.30	129.66	5.56	129.40	5.32	129.64	5.03	129.93	4.29	130.67
DW-2*	7/15/2008	2	60	55 to 60	135.79	na	na	7.17	128.62	7.17	128.62	6.40	129.39	9.49	126.30	5.75	130.04	5.63	130.16	5.35	130.44
MW-1X	old existing	2	13	3 to 13	135.71	na	na	na	na	na	na	3.27	132.44	5.03	130.68	3.01	132.70	2.76	132.95	2.46	133.25

TOC = top of casing.
DTW = depth to water.
bgs = below ground surface
* = Type III Monitoring Well (Well identified on Well Construction Record as DMW-1; however, well has always been designed as DW-2 since installation

TABLE 2

SUMMARY OF GROUNDWATER SAMPLING - FIELD PARAMETER MEASUREMENTS

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
SITE ID: NONCD0002795
ENVIROASSESSMENTS PROJECT NO. 07-7019.13

Parameter		T (^{0}C)		EC (uS/cm)		ORP (mV)		DO (mg/L) (%)		pH		Turbidity (NTU)	
Well ID	Date	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge
MW-1 Plume Fringe/Near Source	4/5/2011	16.96	17.24	125	224	-71.0	-135.3	45.0	2.6	6.34	5.81	203.1	8.13
	3/19/2013	13.97	14.02	167	161	207.2	229.3	91.2	60.7	5.67	5.78	77.37	21.33
	10/9/2013	24.0	25.4	189.6	185.5	232.6	247.8	0.90	0.59	5.55	5.51	92.30	6.78
	2/10/2014	12.5	11.1	141.9	146.4	204.5	210.6	7.55	5.18	5.95	6.08	24.37	19.69
	4/23/2014	17.4	19.6	129.8	128.4	101.8	85.3	6.49	4.69	5.72	5.80	18.38	9.76
	7/31/2014	26.65	27.72	158	164	149.5	109.6	3.82	2.78	5.75	5.86	214.40	6.99
MW-2	4/5/2011	17.78	17.24	219	224	-118.4	-135.3	6.8	2.6	5.94	5.81	10.88	8.13
	3/16/2013	17.90	17.64	249	249	-32.4	-21.6	62.0	19.1	6.03	5.89	14.40	10.58
	10/9/2013	24.8	26.0	264.1	272.5	8.4	-33.2	0.93	0.25	6.08	6.09	4.94	0.01
	2/10/2014	13.7	12.6	247	249	17.2	-6.1	1.16	0.85	6.57	6.5	15.81	10.77
	4/23/2014	18.6	19.8	273.7	279.8	-82.4	-100.3	0.53	0.25	5.97	6.00	116.50	2.42
	7/31/2014	26.61	28.48	281	285	-16.1	-33.4	1.38	0.72	6.07	6.15	22.62	4.41
MW-3	4/1/2011	16.03	16.76	204	211	-7.1	-112.5	14.6	5.8	6.54	6.36	14.90	10.65
	3/16/2013	19.00	17.81	44	41	77.6	173.1	121.2	70.8	5.85	5.01	189.9	121.4
	10/8/2013	23.1	23.8	370.4	372.4	10.8	-4.9	0.81	0.32	6.45	6.46	27.30	8.18
	2/10/2014	12.85	12.37	184	185	81.5	88	2.43	0.81	6.23	6.21	25.73	13.58
	4/23/2014	18.6	18.2	239.2	249.8	94.0	50.7	0.75	0.38	5.87	5.98	34.94	7.36
	7/31/2014	24.71	26.01	190	186	27.7	26.6	3.50	0.88	5.76	5.69	4.63	4.62
MW-4	4/1/2011	15.26	15.01	68	65	70.7	-8.9	99.7	84.9	6.36	6.05	311.8	163.8
	3/15/2013	15.74	14.82	43	42	118.7	194.5	76.6	74.6	5.87	4.88	292.8	189.6
	10/9/2013	22.7	23.4	75.9	79.0	77.9	111.1	1.10	0.5	5.93	5.84	328.6	90.82
	2/10/2014	12.8	10.8	46.3	48.2	-155.7	271.4	7.66	7.52	5.90	6.09	92.64	43.73
	4/23/2014	16.9	17.6	83.2	82.8	144.4	175.6	2.93	2.55	5.90	5.94	155.80	42.82
	7/31/2014	24.6	25.7	118.8	119.2	223.4	189.8	2.27	1.54	5.91	6.01	29.10	14.31
MW-5	3/30/2011	15.50	16.18	219	205	-5.6	-159.1	11.2	1.5	5.37	5.28	43.44	2.51
	3/16/2013	20.12	17.66	404	365	44.1	71.6	97.2	48.2	5.56	4.88	251.3	79.83
	10/8/2013	22.8	23.6	344.2	422.5	265.2	252.2	1.00	0.37	4.93	5.20	431.0	39.18
	2/10/2014	11.97	11.64	294	274	232.7	230.6	3.62	1.75	5.44	5.48	485.7	65.00
	4/23/2014	16.8	18.2	271	245	128.8	43.1	1.57	0.59	5.15	5.26	49.23	27.04
	7/31/2014	26.5	26.2	272	263.2	243	228	0.70	0.33	5.32	5.45	433.40	84.56
MW-6 Plume Fringe/Downgradient	4/5/2011	16.04	16.44	135	137	-64.9	-100.6	12.8	2.1	5.16	5.44	61.54	9.56
	3/18/2013	14.22	14.50	143	127	144.0	81.1	38.6	3.1	4.69	4.98	205.8	40.40
	10/9/2013	22.5	22.5	130.1	144.3	80.2	-13.8	19.1	0.50	5.23	5.28	247.1	11.32
	2/10/2014	13.7	11.9	110.4	117.6	177.2	130.9	1.1	0.76	5.19	5.20	267.0	35.31
	4/23/2014	17.4	17.6	140.6	144.5	195.2	88.7	0.51	0.25	5.09	5.15	178.8	9.28
	7/31/2014	25.02	25.73	105	104	154	91.4	1.78	0.67	4.85	5.04	83.13	28.12
MW-7 Upgradient	4/1/2011	13.76	14.04	181	175	30.5	-71.6	42.0	6.2	5.84	5.88	241.3	41.55
	3/18/2013	12.55	12.83	133	138	38.5	145.8	38.4	27.4	5.70	5.38	105.3	88.18
	10/9/2013	22.0	22.4	132	128.7	253.2	250.1	1.23	0.32	5.15	5.24	199.5	27.74
	2/10/2014	12.90	12.23	121	121	212.2	222.2	2.01	1.24	5.74	6.64	160.4	110.3
	4/23/2014	17.2	17.5	177.5	180.8	273.2	265.9	0.58	0.39	5.46	5.52	860.7	186.3
	7/31/2014	22.8	24.2	157	155.4	220.9	224.3	0.37	0.2	5.46	5.44	360.4	123.2
MW-8	4/6/2011	18.95	19.05	121	86	83.3	-57.2	45.0	33.7	6.50	6.03	20.25	2.21
	3/15/2013	19.21	18.97	56	53	129.8	172.8	43.7	23.3	5.08	4.52	15.31	12.04
	10/8/2013	22.9	22.3	51.9	65.7	193.3	210.3	1.38	1.58	5.00	4.59	8.10	12.64
	2/10/2014	15.8	14.2	54.6	55.3	139.1	264.2	3.29	2.33	4.87	4.6	8.08	4.32
	4/23/2014	18.7	19.2	97.2	83.6	401.7	372.4	0.67	0.58	4.27	4.53	7.12	1.78
	7/31/2014	24.1	25.1	72.7	76.8	200.4	278.7	0.37	0.29	4.80	4.59	15.68	11.64
MW-9	4/6/2011	18.96	19.37	194	194	-58.6	-73.5	37.4	37.8	6.23	6.24	28.18	28.26
	3/15/2013	16.04	16.20	68	67	185.1	221.2	26.5	22.3	4.58	4.42	26.36	8.65
	10/8/2013	21.8	21.6	64.2	66.3	240.4	262	11.10	12.3	4.72	4.74	67.27	89.3
	2/10/2014	12.53	11.44	67	65	224.6	241.6	3.67	3.36	5.36	5.26	27.85	7.79
	4/23/2014	17.6	19.8	107.4	105.7	325.9	349.7	0.91	0.78	4.50	4.43	18.24	3.12
	7/31/2014	22.99	24.78	67	69	174.4	121.4	1.42	0.81	4.36	4.38	11.00	2.98
MW-10	4/5/2011	19.73	19.25	136	136	7.7	-12.7	35.1	24.7	5.36	5.12	86.08	188.6
	3/16/2013	19.33	22.70	59	57	147.5	148.6	22.7	20.6	3.89	4.29	21.50	21.74
	10/8/2013	23.5	21.2	78.9	79.4	225.4	238.4	1.19	1.00	5.00	5.02	22.76	18.46
	2/10/2014	13.5	13.3	57.7	59.1	217.2	244.9	2.73	2.15	4.69	4.67	10.94	4.32
	4/23/2014	18.4	19.7	90.4	86.8	352.9	346.4	0.63	0.54	4.49	4.57	15.20	4.77
	7/31/2014	23.7	24	76.3	77.6	241.2	292.8	0.43	0.22	4.77	4.53	110.20	8.57
MW-11	4/6/2011	19.49	20.26	115	110	-10.9	-43.2	41.5	33.8	5.72	5.62	21.06	12.96
	3/19/2013	13.62	14.58	45	45	139.3	190.0	48.60	18.0	4.52	4.45	9.29	7.64
	10/9/2013	21.8	22.6	47.9	59.4	214.6	222.1	0.92	0.74	5.19	5.45	16.99	7.39
	2/10/2014	14.7	13.1	45.6	47.1	140.9	206.9	3.12	2.08	4.85	4.61	14.46	5.67
	4/23/2014	18.2	18.3	96.2	78.9	278.8	386.0	1.63	0.45	4.79	4.61	52.16	17.63
	7/31/2014	23.94	25.8	45	44	174.1	119.6	1.63	1.18	4.67	4.82	22.16	2.99
MW-12 Source/Plume Interior	4/6/2011	17.28	17.55	171	204	-28.6	-53.0	98.2	38.5	5.53	5.81	47.1	19.01
	3/19/2013	16.93	16.31	223	427	53.8	-44.9	27.9	8.0	5.87	6.09	17.31	3.46
	10/9/2013	22.9	21.4	190.6	220.7	-26.9	-59.5	0.83	0.67	5.63	5.79	12.31	9.04
	2/10/2014	12.05	11.48	197	365	58.9	2.6	1.59	0.84	6.11	6.50	114.20	20.89
	4/23/2014	17.9	17.3	319.9	399.3	56.4	3.9	1.00	0.33	6.00	6.11	36.51	17.23
	7/31/2014	24.7	25.31	257	484	14.2	-5.1	1.26	0.99	5.83	6.22	4.73	2.25
MW-13	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/16/2013	19.75	21.10	52	52	176.4	182.5	20.2	14.1	3.69	4.16	16.38	3.19
	10/9/2013	21.5	20.4	71.2	76.7	230.6	271.3	0.96	1.12	4.80	4.64	4.19	0.00
	2/10/2014	14.7	13.2	54.1	55.4	224.7	249.3	3.19	2.97	4.58	4.58	0.73	0.92
	4/23/2014	18.8	20.2	63.9	56	174.7	151.3	0.88	0.68	4.27	4.23	0.00	0.00
	7/31/2014	24.7	24.8	73.8	76.7	279	286.1	0.40	0.29	4.52	4.49	7.03	1.21
MW-14	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	16.12	15.68	155	143	161.2	115.3	82.4	44.1	4.65	5.11	82.18	30.16
	10/8/2013	23.0	23.1	179.0	159.1	271.1	261.7	0.39	0.36	4.85	4.74	110.1	94.52
	2/10/2014	12.45	12.16	109.0	116	218.5	221.1	3.66	1.73	4.79	4.83	107.8	58.76
	4/23/2014	16.6	17.0	151.1	154.7	367	356.1	0.66	0.41	4.58	4.71	12.16	5.23
	7/31/2014	23.5	24.3	161.2	164	338.1	337.6	0.54	0.28	4.54	4.62	41.26	3.46
MW-15	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	17.02	15.56	200	187	62.2	71.5	157.0	126.2	6.35	5.69	44.73	23.90
	10/8/2013	23.0	22.7	115.7	138.3	208.5	244.1	0.93	0.40	5.02	4.76	5.03	0.20
	2/10/2014	12.56	11.86	102	99	201.2	206.8	4.28	2.74	4.80	4.80	3.70	0.01
	4/23/2014	15.90	16.8	148.1	142.2	358.4	357	1.44	1.37	4.57	4.63	20.10	5.68
	7/31/2014	23.36	23.86	111	115	142.4	127.3	3.18	1.14	4.62	4.61	0.15	0.89
MW-16	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	15.90	15.90	129	132	149.3	172.1	82.2	72.1	6.03	5.70	44.12	62.56
	10/8/2013	22.0	21.2	142.2	191.2	53.1	139.2	0.95	0.76	5.09	5.31	4.27	10.61
	2/10/2014	13.9	12.7	86.1	88.3	260.0	254.0	1.46	1.25	4.91	5.12	9.82	123.2
	4/23/2014	17.0	17.1	120.3	116.2	299.4	285.7	1.18	0.80	5.25	5.43	11.88	117.2
	7/31/2014	25.5	25.49	77	74	199.1	124.2	1.59	1.15	4.81	5.13	54.25	259.4
MW-17	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	14.36	13.83	259	280	126.6	168.4	70.1	76.2	5.16	4.63	139.1	18.64
	10/8/2013	22.7	23.2	245.3	273.4	241.8	278.4	4.54	4.51	4.71	4.31	260.0	36.74
	2/10/2014	13.7	12.4	279.8	296.6	339.3	313.2	5.62	5.28	4.35	4.28	231.0	20.99
	4/23/2014	16.2	17.2	281.3	275.8	152.3	127.7	5.39	4.33	4.46	3.95	107.7	58.77
	7/31/2014	24.2	23.53	234	223	201.5	161.1	7.14	4.21	4.34	4.11	48.64	6.2
MW-18	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	12.86	13.00	525	561	94.6	98.9	90.8	75.7	6.39	6.48	60.90	3.57
	10/9/2013	24.1	22.5	351.4	421.1	220.0	197.0	0.78	0.83	5.91	6.15	5.22	0.00
	2/10/2014	11.87	10.81	211	211	176.2	227.9	2.01	1.77	5.72	5.58	5.77	3.28
	4/23/2014	18.1	18.8	232.1	248.1	69.8	46.4	0.45	0.75	5.44	5.23	4.39	0.00
	7/31/2014	27.4	29.1	261.1	267.1	262.0	222.4	0.35	0.71	5.32	5.67	3.56	2.31
MW-19	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
	10/8/2013	24.3	24.1	150.2	180.8	59.8	31.3	1.00	0.81	5.43	5.54	23.88	3.72
	2/10/2014	15.1	13.7	138.0	169.6	142.8	109.3	0.76	0.69	5.40	5.60	41.77	44.22
	4/23/2014	17.6	19.0	145.9	147.1	62.6	59.3	0.40	0.40	5.30	5.21	40.16	57.64
	7/31/2014	25.9	26.1	191.3	201.6	86.5	84.7	0.24	0.18	5.46	5.54	9.27	6.33
MW-20	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/19/2013	16.40	16.78	194	210	25.8	-8.0	11.2	4.0	5.88	5.98	239.4	33.85
	10/8/2013	29.0	26.4	142.1	167.6	20.5	-56.2	1.33	0.23	5.80	6.09	8.88	105.9
	2/10/2014	14.3	12.1	153.6	177.8	24.6	-32.9	2.04	0.86	6.12	6.21	13.99	13.04
	4/23/2014	18.6	20.4	188.5	207.4	-64.5	-120.3	0.41	0.27	5.90	6.00	27.27	2.61
	7/31/2014	28.2	28.4	221.6	242.8	-25	-106	0.24	0.15	6.05	6.10	22.56	8.58
MW-21	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	14.98	15.74	161	105	112.5	101.1	61.2	13.9	6.15	5.11	369.8	11.36
	10/8/2013	23.8	23.6	134.6	95.2	239.1	246.3	1.17	0.22	5.63	5.12	51.61	36.61
	2/10/2014	13.50	12.79	55	81	152.0	172.5	3.84	2.06	5.54	5.37	31.66	4.63
	4/23/2014	17.6	17.6	98.7	98.2	114.1	87.7	2.81	1.6	4.90	4.48	9.37	0.00
	7/31/2014	24.5	24.8	130.9	125.5	335.8	337.3	1.52	1.05	4.81	4.72	12.08	0.72
MW-22 Downgradient	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	15.91	16.57	180	160	143.1	104.2	26.8	9.5	5.35	4.91	41.78	6.41
	10/9/2013	22.0	22.5	175.2	172.1	220.7	240.1	10.60	0.60	4.62	4.62	8.50	2.88
	2/10/2014	14.4	13.7	157.2	153.8	245.6	267.2	1.34	1.22	4.71	4.74	40.92	22.72
	4/23/2014	18.5	19.6	155.7	156.8	157.7	108	1.19	0.60	4.77	4.38	171.2	55.15
	7/31/2014	24.3	24.4	236	214.2	305.7	342.7	0.81	0.40	4.71	4.55	38.54	3.93
DW-2	4/6/2011	18.60	19.31	148	132	-68.1	-98.9	12.7	4.1	4.98	4.85	11.99	12.32
	3/16/2013	19.77	20.51	127	120	126.2	52.1	42.7	14.0	4.50	4.72	76.53	16.27
	10/8/2013	21.0	21.1	147.9	147.9	239.0	291.1	2.74	0.95	4.58	4.47	2.45	6.30
	2/10/2014	16.72	15.79	110	107	160.4	136.3	1.98	1.18	5.02	4.94	8.34	3.13
	4/23/2014	19.4	19.0	157.1	124.2	297.9	105	2.54	0.40	3.77	4.52	11.78	0.42
	7/31/2014	22.6	23.0	121	115	190.6	108.1	3.04	0.72	4.31	4.62	3.26	1.78
MW-1X	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	13.36	13.94	126	127	-87.3	-134.7	93.4	13.2	6.02	5.96	9.66	5.22
	10/8/2013	23.3	24.0	105.8	106.2	8.0	-57.0	0.66	0.26	5.73	5.67	24.62	6.83
	2/10/2014	12.85	12.85	139	128	115.2	20.2	2.98	1.48	6.48	6.28	8.29	2.36
	4/23/2014	17.9	18.2	189.6	176.3	48.3	-19.8	0.37	0.49	6.02	5.73	6.54	0.00
	7/31/2014	25.4	25.8	228.9	213.6	123.1	118.2	0.38	0.22	5.97	5.99	19.00	3.91
Values Favorable for Natural Attenuation		>20		--		<50		(<12%) <0.5 mg/L		5 - 9		--	

Notes:
SU Standard Units
EC Electrical Conductivity
uS/cm Micro Seimens per centimeter (0-1,999)
T Temperature
^{0}C Degrees Celsius
DO Dissolved Oxygen
mg/L Milligrams per liter
mV Millivolts
ORP Oxidation-Reduction Potential
nm Not Measured

pre-purge = initial measurements prior to beginning monitoring well purging
post-purge = final measurements after well purging complete and prior to sampling

42.7 = DO measured in percent (%) with favorable Natural Attenuation < 12%

= Indicates conditions favorablefor bioremediation
[anaerobic biodegradation (i.e., reductive dechorination)]

TABLE 3

SUMMARY OF GROUNDWATER SAMPLING RESULTS - GEOCHEMICAL / NATURAL ATTENUATION PARAMETERS

R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS PROJECT NO. 07-7019.13

Sample ID		MW-7					MW-1					MW-12					MW-6					MW-22					Values Conducive to Bioremediation
Screen Interval or (Sample Depth) - ft		5-15					4-14					5-15					4-14					5-15					
Sample Date		3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	3/19/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	3/19/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	
Constituent	Method																										
Ethane (ug/L)	RSK 175	**< 0.86**	**< 6.2**	NS	NS	NS	**< 0.86**	**< 6.2**	NS	NS	NS	**< 0.86**	**< 6.2**	NS	NS	NS	**< 0.86**	**< 6.2**	NS	NS	NS	**< 0.86**	**< 6.2**	NS	NS	NS	<10 / <100
Ethene (ug/L)	RSK 175	**< 0.79**	**< 6.2**	NS	NS	NS	**< 0.79**	**< 6.2**	NS	NS	NS	**< 0.79**	**< 6.2**	NS	NS	NS	**< 0.79**	**< 6.2**	NS	NS	NS	**< 0.79**	**< 6.2**	NS	NS	NS	<10 / <100
Methane (ug/L)	RSK 175	< 3.3	**14.2**	NS	NS	NS	< 3.3	< 6.6	NS	NS	NS	**1030**	**765**	NS	NS	NS	**261**	**478**	NS	NS	NS	< 3.3	< 6.6	NS	NS	NS	>500 / >10
Nitrogen, Nitrate - NO3 (mg/L)	EPA 353.2	**0.44**	**0.53**	NS	NS	NS	4.6	6.0	NS	NS	NS	**< 0.020**	**< 0.020**	NS	NS	NS	**< 0.020**	**< 0.020**	NS	NS	NS	4.0	3.9	NS	NS	NS	<1
Nitrogen, Nitrite - NO2 (mg/L)	EPA 353.2	0.034	< 0.020	NS	NS	NS	< 0.020	< 0.040	NS	NS	NS	< 0.020	0.06	NS	NS	NS	< 0.020	< 0.020	NS	NS	NS	< 0.020	< 0.020	NS	NS	NS	NE
Nitrogen, NO2 Plus NO3 (mg/L)	EPA 353.2	0.47	0.53	NS	NS	NS	4.6	6.0	NS	NS	NS	< 0.020	0.02	NS	NS	NS	< 0.020	< 0.020	NS	NS	NS	4.0	3.9	NS	NS	NS	NE
Sulfate (mg/L)	EPA 300.0	35.1	31.1	NS	NS	NS	24.1	**21.7**	NS	NS	NS	**6.5**	**9.8**	NS	NS	NS	**16.3**	**12.2**	NS	NS	NS	23.4	**21.5**	NS	NS	NS	<20
Total Organic Carbon - TOC (mg/L)	SM 5310B	13.7	10.8	NS	NS	NS	5.1	6.5	NS	NS	NS	**19.9**	10.2	NS	NS	NS	6.8	7.2	NS	NS	NS	3.8	**22.5**	NS	NS	NS	>20
Ferrous Iron - Fe+2 (mg/L)	Colorimetric kit	0.0	0.4	NS	NS	NS	0	0.2	NS	NS	NS	**6.1**	**1.8**	NS	NS	NS	**5.9**	**1.1**	NS	NS	NS	**0.9**	0	NS	NS	NS	>1
Carbon Dioxide - CO2 (mg/L)	Digital titration kit	**166**	132	NS	NS	NS	85	136	NS	NS	NS	**363**	**435**	NS	NS	NS	**176**	**219**	NS	NS	NS	86	103	NS	NS	NS	>2X Background*
Relative Well Location From Source		**Upgradient**					**Plume Fringe/ Near Source**					**Source/Plume Interior**					**Plume Fringe/ Downgradient**					**Downgradient**					

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NE - not established
NS - not sampled
< = concentration is below the lesser of the adjusted laboratory Reporting Limit (RL) and/or adjusted Method Detection Limit (MDL).

= Indicates conditions favorable for bioremediation (anaerobic biodegradation / reductive dechorination)
= Indicates conditions plausible for bioremediation (anaerobic biodegradation / reductive dechorination)

* Background ranges from 2x Co2 results for MW-7 and MW-22 for each repsective date of measurement

TABLE 4

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical	MW-1										MW-2								MW-3									MW-4								North Carolina 2L Groundwater	Gross Contamination Levels for
Collection Date	Method	9/11/2007	6/3/2008	4/5/2011	2/19/2013	3/19/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	9/11/2007	6/3/2008	4/6/2011	3/16/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	9/11/2007	6/3/2008	4/1/2011	2/19/2013	3/16/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	9/11/2007	6/3/2008	4/1/2011	3/15/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	Quality Standards	Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																																						
Acetone	8260B	< 10.0	< 10.0	< 25.0	< 25.0	< 25.0	<10.0	< 10.0	<10	<10	< 10.0	< 20.0	334	< 25.0	<50.0	< 50.0	<50.0	<40.0	< 100.0	< 10.0	< 25.0	< 25.0	< 25.0	< 10.0	< 10.0	<10.0	104	< 10.0	< 10.0	< 25.0	< 25.0	< 10.0	< 10.0	<10.0	<10.0	6000	6000000
Acrolein	8260B	< 10.0*	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 10.0*	< 20.0*	< 8.0*	< 1.6	<8.0	< 8.0	< 8.0	<6.4	< 100.0*	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	<1.6	<1.6	<1.6	< 10.0*	< 10.0*	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	<1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	< 0.25	<0.25	<0.25	**418**	**1850**	**946**	**836**	**735**	**623**	**471**	**502**	**155**	**103**	**21.1**	**54.3**	< 1.0	0.85J	**15.8**	**20.2**	**5.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.25	< 0.25	<0.25	<0.25	1	5000
Bromodichloromethane	8260B	< 0.60	< 0.60	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	<0.18	< 0.60	< 20.0*	< 0.90*	< 0.18	<0.90	< 0.90	<0.85	<0.72	< 6.0*	< 0.60	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	<0.18	< 0.60	< 0.60	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	<0.17	<0.18	0.6	NE
2-Butanone (MEK)	8260B	< 10.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 10.0	< 20.0	98.0	< 5.0	<4.8	< 4.8	<4.8	<3.8	< 100.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	<0.96	<0.96	<0.96	< 10.0	< 10.0	< 5.0	< 5.0	< 0.96	< 0.96	<0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	na	na	<3.6	< 3.6	<3.6	<3.6	na	na	na	na	<18.1	< 18.1	< 18.1	<14.5	na	na	na	na	na	<3.6	4.2 J	<3.6	<3.6	na	na	na	na	< 3.6	< 3.6	<3.6	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	< 20.0	< 5.0	< 1.0	<2.0	< 2.0	< 2.0	<1.6	< 10.0	2.61	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	<0.41	<0.41	24	< 1.0	< 1.0	< 1.0	< 0.41	< 0.41	<0.41	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	< 20.0	< 5.0	< 1.0	<1.9	< 1.9	< 1.9	<1.5	< 10.0	1.64	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	0.85 J	0.53J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.38	< 0.38	<0.38	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.25	<0.40	< 1.0	< 20.0	< 5.0	< 1.0	<2.0	< 2.0	< 2.0	<1.6	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	<0.40	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 10.0	< 20.0	< 5.0	< 1.0	<1.2	< 1.2	<1.2	<0.92	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	< 0.23	< 0.23	<0.23	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	0.18J	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	< 20.0	< 5.0	< 1.0	<0.70	< 0.70	<0.7	<0.56	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 0.14	<0.14	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 20.0	< 5.0	< 1.0	<1.8	< 1.8	<1.8	<1.4	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	< 0.35	< 0.35	<0.35	<0.35	100	NE
Dibromochloromethane	8260B	< 1.0*	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 1.0*	< 20.0*	< 0.21	< 0.21	<1.0	< 1.0	<1.0	<0.84	< 10.0*	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 1.0*	< 1.0*	< 0.21	< 0.21	< 0.21	< 0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 20.0	< 5.0	< 1.0	<1.0	< 1.0	<1.0	<0.84	< 10.0	< 1.0	0.38 J	1.5	< 1.0	<0.21	3.0	0.57J	0.68J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.21	< 0.21	<0.21	<0.21	1000	140000
1,2-Dichloroethane	8260B	< 1.0*	< 1.0*	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 1.0*	< 20.0*	< 0.60*	< 0.12	<0.60*	< 0.60*	<0.60*	<0.48*	< 10.0*	< 1.0*	< 0.12	0.31J	< 1.0	<0.12	0.25 J	0.23J	<0.12	< 1.0*	< 1.0*	< 0.12	< 0.12	< 0.12	< 0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	1.4	0.22J	0.27J	< 0.19	<0.19	<0.19	< 1.0	< 20.0	17.6	22.3	12.3	16.2	12.5	10.5	< 10.0	< 1.0	1.0	1.5	< 1.0	<0.19	2.4	2.5	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	< 20.0	10.2	10.2	4.8J	6.9	5.3	3.7J	< 10.0	< 1.0	0.89 J	0.91J	< 1.0	<0.49	1.7	1.7	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 0.49	< 0.49	<0.49	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	< 1.0	< 20.0	57.8	42	23.3	24.6	17.9	17.4	**73.5**	NT	20.9	37.3	< 1.0	20.7	39.9	36.7	10.9	< 1.0	< 1.0	< 1.0	< 1.0	< 0.12	< 0.12	<0.12	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.30	< 0.30	<0.30	<0.30	96.4	**982**	**732**	**614**	**643**	502	270	479	75.4	281	0.30 J	19.4	< 1.0	0.37J	1.7	<0.30	0.47J	166	15.5	< 1.0	< 1.0	< 0.30	< 0.30	<0.30	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	< 1.0	39.6	38.4	43.0	32.8	28.0	11.8	22.6	< 10.0	15.4	0.92 J	1.6	< 1.0	<0.40	< 0.40	<0.40	<0.40	15.1	1.28	< 1.0	< 1.0	< 0.40	< 0.40	<0.40	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	< 20.0	< 5.0	< 1.0	<1.6	< 1.6	<1.6	<1.2	< 10.0	3.66	< 1.0	< 1.0	< 1.0	<0.31	0.46 J	<0.31	<0.31	2.94	< 1.0	< 1.0	< 1.0	< 0.31	< 0.31	<0.31	<0.31	25	11700
Methylene Chloride	8260B	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 5.0	< 20.0*	**8.2 J**	< 2.0	**37.4**	< 4.8	**9.1J**	**9.4**	< 50.0*	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 5.0	< 5.0	< 2.0	< 2.0	< 0.97	< 0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 10.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 10.0	< 20.0	< 25.0	< 5.0	<1.6	< 1.6	<1.6	<1.3	< 100.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 10.0	< 10.0	< 5.0	< 5.0	< 0.33	< 0.33	<0.33	<0.33	100	100000
Methyl tert-butyl ether (MTBE)	8260B	1.7	1.14	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 10.0	< 20.0	1.0 J	0.79 J	<1.0	< 1.0	<1.0	<0.84	< 10.0	< 1.0	0.52 J	0.89J	< 1.0	0.44J	< 0.21	0.72J	0.24J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.21	< 0.21	<0.21	<0.21	20	20000
Naphthalene	8260B	< 1.0	< 1.0	0.45 J	0.25J	< 1.0	<0.24	< 0.24	<0.24	<0.24	**15.1**	**330**	**420**	**296**	**395**	**217**	**168**	**262**	**30**	**178**	4.8	**20.9**	< 1.0	0.38J	0.77 J	2	5.2	**81.2**	**12.1**	< 1.0	0.80J	< 0.24	< 0.24	<0.24	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.42	< 0.42	< 0.42	< 0.42	< 1.0	**72.8**	66.3	**72.1**	66.9	53.3	19.4	46.4	< 10.0	25.1	< 1.0	2.8	< 1.0	<0.42	< 0.42	<0.42	<0.42	42	3.28	< 1.0	< 1.0	< 0.42	< 0.42	<0.42	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	20.6	< 5.0	< 1.0	<1.3	<1.3	<1.3	<1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	3.76	< 1.0	< 1.0	< 1.0	< 0.26	< 0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	**49.4**	**9.78**	**3.2**	**41.8**	**15.9**	**21.1**	**2.2**	**3.4**	**4.6**	**134**	< 20.0*	< 2.0*	< 0.40*	<2.0	< 2.0	<2.0	<1.6	< 10.0*	< 1.0*	**0.74 J**	**1.6**	< 0.40*	<0.40*	< 0.40*	<0.40*	**1.1**	< 1.0*	< 1.0*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	<0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 1.0*	< 1.0*	< 0.46	**0.75J**	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 1.0*	< 20.0*	< 2.3*	< 0.46	<2.3	< 2.3	<2.3	<1.8	< 10.0*	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 1.0*	< 1.0*	< 0.46	< 0.46	< 0.46	< 0.46	<0.46	<0.46	0.7	700
Toluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	530	**2360**	112	71.2	23.4	105	87.5	23.1	315	1.66	0.83 J	1.7	< 1.0	<0.26	< 0.26	0.30J	0.39J	49.1	< 1.0	< 1.0	< 1.0	< 0.26	< 0.26	<0.26	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 1.0*	< 1.0*	< 0.29	**1.4**	0.32J	0.35J	< 0.29	<0.29	<0.29	< 1.0*	< 20.0*	< 1.4*	< 0.29	<1.4	< 1.4	<1.4	<1.2	< 10.0*	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	< 1.0*	< 1.0*	< 0.29	< 0.29	< 0.29	< 0.29	<0.29	<0.29	0.6	600
Trichloroethene (TCE)	8260B	**9.51**	2.71	0.74 J	**10.8**	**4.6**	**7.9**	0.69J	0.79J	1.3	**21.5**	< 20.0*	< 2.4	< 1.0	<2.4	< 2.4	<2.4	<1.9	< 10.0*	< 1.0	0.72 J	0.87J	< 1.0	<0.47	0.74 J	0.92J	0.74J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.47	< 0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	na	na	na	<0.090	< 0.090	< 0.090	na	na	na	na	157	96.5	70.2	103	na	na	na	na	na	<0.090	6.5	<0.090	4.3	na	na	na	na	< 0.090	< 0.090	<0.090	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	34.7	**631**	397	334	**490**	346	282	324	35.4	50.6	1.1	3.0	< 1.0	<0.31	0.63 J	<0.31	<0.31	331	22.9	< 1.0	< 1.0	< 0.31	< 0.31	<0.31	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	< 0.36	< 0.36	16.2	126	77.8	61.0	<1.8	44.7	27.3	26.8	12	30.4	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	<0.36	<0.36	122	4.33	< 1.0	< 1.0	< 0.36	< 0.36	<0.36	<0.36	400	25000
Vinyl chloride	8260B	< 1.0*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 1.0*	< 20.0*	< 3.1*	**1.3**	<3.1*	< 3.1*	<3.1	<2.5*	< 10.0*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 1.0*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	<0.62*	0.03	30
Xylenes - Total	8260B	0	0	0	0	0	0	0	0	0	297	2782	1210	808.1	468.2	**569.2**	204	320	256.9	0	1.1	0	0	0	0	<0.66	<0.66	930	60.9	0	0	0	0	<0.66	<0.66	500	85500
Total VOCs	8260B	60.6	13.63	3.2	55.4	20.5	29	2.2	4.19	5.9	1860	11976	8542	6121	3084	2632	1656	2470	1210	693.1	55.5	149.5	0	22.74	78.1	67.0	136.5	2697	181.2	0	0.80	0	0	0	0	NA	NA
Total BTEX	8260B	0	0	0	0	0	0	0	0	0	1341.4	7974	3000	2329	1870	1799	1033	1331	802	385.7	23.3	77.3	0	1.22	17.5	20.8	6.0	1145	76.4	0	0	0	0	0	0	NA	NA
Total TICs	8260B	NT	NT	0	NT	0	NT	NT	NT	NT	NT	NT	4016	2909	NT	NT	NT	NT	NT	NT	0.17775	NT	0	NT	NT	NT	NT	NT	NT	0	0	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																																						
Acenaphthene	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	1.9 J	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	< 10.0	NT	< 20.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 23.5	NT	NT	NT	NT	NT	12	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 23.5	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	< 4.0*	NT	< 0.79	NT	NT	NT	NT	NT	NT	< 4.0*	NT	1.9 J	NT	NT	NT	NT	NT	< 4.0*	NT	< 2.4	NT	NT	NT	NT	NT	NT	< 4.0*	NT	< 0.93	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	2.6 J	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	4.1 J	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	< 10.0*	NT	< 0.32	NT	NT	NT	NT	NT	NT	< 10.0*	NT	**17.2**	NT	NT	NT	NT	NT	< 10.0*	NT	< 0.32	NT	NT	NT	NT	NT	NT	< 10.0*	NT	< 0.38	NT	NT	NT	NT	NT	1	1000
2-Methylnaphthalene	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	23.2	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	18.3	NT	< 11.8	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	< 10.0*	NT	< 0.34	NT	NT	NT	NT	NT	NT	< 10.0*	NT	**155**	NT	NT	NT	NT	NT	**15.5**	NT	2.5 J	NT	NT	NT	NT	NT	NT	**15.5**	NT	< 0.40	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	4.4 J	NT	NT	NT	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	NT	68.46	NT	NT	NT	NT	NT	NT	NT	NT	735.6	NT	NT	NT	NT	NT	NT	NT	78.41	NT	NT	NT	NT	NT	NT	NT	NT	109.46	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																																						
Antimony	6010	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 9.1	2.8 J	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	NT	< 4.6*	< 0.50	NT	NT	NT	NT	NT	NT	NT	< 4.6*	< 0.50	NT	NT	NT	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	NT	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	NT	NT	2	NE
Chromium	6010	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	5.8	NT	NT	NT	NT	NT	10	10000
Copper	6010	NT	< 9.1	7.5	NT	NT	NT	NT	NT	NT	NT	16	< 5.0	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	NT	44.7	13.7	NT	NT	NT	NT	NT	1000	NE
Lead	6010	10.9	7.67	< 5.0	NT	NT	NT	NT	NT	NT	13.7	**63.6**	< 5.0	NT	NT	NT	NT	NT	13.1	**18.7**	< 5.0	NT	NT	NT	NT	NT	NT	**131**	**241**	14.8	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	17	NT	NT	NT	NT	NT	NT	NT	NT	**73.9**	NT	NT	NT	NT	NT	NT	NT	**285**	NT	NT	NT	NT	NT	NT	NT	NT	**132**	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 9.1	2.6 J	NT	NT	NT	NT	NT	100	NE
Selenium	6010	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	20	NE
Silver	6010	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	20	20000
Thallium	6010	NT	< 18.0*	< 5.0*	NT	NT	NT	NT	NT	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	NT	NT	NT	< 18.0*	<5.0*	NT	NT	NT	NT	NT	NT	NT	< 18.0*	<5.0*	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	NT	377	200	NT	NT	NT	NT	NT	NT	NT	52.6	8.7 J	NT	NT	NT	NT	NT	NT	29.6	< 10.0	NT	NT	NT	NT	NT	NT	NT	219	53.5	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																																						
Mercury	7471	NT	<0.20	<0.10	NT	NT	NT	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank

"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical	MW-5							MW-6								MW-7								MW-8						MW-9							North Carolina 2L Groundwater	Gross Contamination Levels
Collection Date	Method	6/3/2008	3/30/2011	3/16/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	6/3/2008	4/5/2011	2/19/2013	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	6/3/2008	4/1/2011	2/19/2013	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	4/6/2011	3/15/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	4/6/2011	2/19/2013	3/15/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	Quality Standards	for Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																																							
Acetone	8260B	< 10.0	< 25.0	< 25.0	< 10.0	< 10.0	<10.0	<10.0	< 10.0	< 25.0	< 25.0	< 25.0	16.9J	< 10.0	<10.0	<10.0	16	< 25.0	< 25.0	< 25.0	<10.0	< 10.0	<10.0	<10.0	41.0	< 25.0	<10.0	< 10.0	<10.0	<10.0	13.8 J	< 25.0	< 25.0	<10.0	< 10.0	<10.0	<10.0	6000	6000000
Acrolein	8260B	< 10.0*	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	**117**	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	<0.25	< 0.25	<0.25	<0.25	**2.14**	**3.1**	**1.8**	**2.6**	<0.25	**2.1**	**5.8**	0.68J	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	< 0.25	<0.25	<0.25	**3.7**	< 1.0	<0.25	< 0.25	<0.25	<0.25	**1.3**	< 1.0	< 1.0	<0.25	< 0.25	<0.25	<0.25	1	5000
Bromodichloromethane	8260B	< 0.60	< 0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.18	< 0.60	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	<0.18	< 20.0*	< 0.18	< 0.18	< 6.0*	<0.18	< 0.18	<0.17	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	<0.18	0.6	NE
2-Butanone (MEK)	8260B	< 10.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	7.1	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	<3.6	< 3.6	<3.6	<3.6	na	na	na	na	**49.4J**	< 3.6	<3.6	<3.6	na	na	na	na	<3.6	< 3.6	<3.6	< 3.6	na	na	<3.6	< 3.6	< 3.6	< 3.6	na	na	na	<3.6	< 3.6	< 3.6	< 3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	<0.41	<0.41	15.7	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	<0.41	< 0.41	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	0.86 J	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	1.3	0.95 J	1.2	1.6	0.96 J	1.3	1.1	10.8	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	<0.38	< 0.38	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	1.86	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	< 0.40	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	< 1.0	<0.23	< 0.23	< 0.23	<0.23	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	< 0.23	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	< 1.0	<0.14	< 0.14	< 0.14	<0.14	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	< 0.14	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	<0.35	< 0.35	< 0.35	<0.35	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	< 0.35	<0.35	100	NE
Dibromochloromethane	8260B	< 1.0*	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	<0.21	< 0.21	< 0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	< 0.21	<0.21	1000	140000
1,2-Dichloroethane	8260B	< 1.0*	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 1.0*	0.14 J	0.15J	< 0.12	0.23J	< 0.12	0.16J	<0.12	< 1.0*	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	<0.19	< 0.19	<0.19	<0.19	< 1.0	< 1.0	< 1.0	< 1.0	0.27J	< 0.19	<0.19	<0.19	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	< 0.19	<0.19	<0.19	< 1.0	< 1.0	<0.19	< 0.19	< 0.19	<0.19	< 1.0	< 1.0	< 1.0	<0.19	< 0.19	< 0.19	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	< 1.0	<0.49	< 0.49	< 0.49	<0.49	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	< 0.49	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	NT	8.7	7.7	7.6	11.7	7.2	7.4	7.3	NT	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	1.7	0.30J	0.94J	0.34 J	0.38J	0.58J	< 1.0	< 1.0	< 1.0	0.21J	< 0.12	<0.12	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.30	< 0.30	<0.30	<0.30	2.19	3.6	2.8	4.1	1.5	4.7	13.6	2.4	15.3	< 1.0	< 1.0	< 1.0	<0.30	< 0.30	<0.30	<0.30	12.4	< 1.0	<0.30	< 0.30	< 0.30	<0.30	0.31 J	< 1.0	< 1.0	<0.30	< 0.30	< 0.30	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	1.79	3.4	1.8	2.5	1.4	1.9	3.5	1.2	7.57	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	1.9	< 1.0	<0.40	< 0.40	< 0.40	<0.40	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	0.32J	<0.31	**47.2**	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	< 1.0	<0.31	< 0.31	< 0.31	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	< 0.31	<0.31	25	11700
Methylene Chloride	8260B	< 5.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	< 2.0	<0.97	< 0.97	< 0.97	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	< 0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 10.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	1.1 J	< 5.0	<0.33	< 0.33	< 0.33	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	< 0.33	<0.33	100	100000
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	1.4	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	0.66 J	0.46J	0.40J	0.56J	0.38 J	0.42J	0.38J	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	<0.21	< 0.21	< 0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	< 0.21	<0.21	20	20000
Naphthalene	8260B	1.63	< 1.0	0.42J	<0.24	< 0.24	0.39 J	<0.24	4.47	**14.8**	**7.1**	**11.6**	**16.3**	**10.3**	**17.8**	**11.1**	**21.7**	< 1.0	< 1.0	< 1.0	<0.24	0.27 J	0.41J	<0.24	2.2	< 1.0	<0.24	< 0.24	< 0.24	<0.24	< 1.0	< 1.0	< 1.0	<0.24	< 0.24	< 0.24	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	0.55 J	0.61 J	1.0	<0.42	1.4	3	0.46J	15.3	< 1.0	< 1.0	< 1.0	<0.42	<0.42	<0.42	<0.42	2.5	< 1.0	<0.42	<0.42	<0.42	<0.42	< 1.0	< 1.0	< 1.0	<0.42	<0.42	<0.42	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	<0.26	< 0.26	< 0.26	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	< 0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	< 1.0*	**3.7**	**2.8**	**1.9**	**1.9**	**1.2**	**1.4**	< 1.0*	< 0.40*	**0.58J**	**0.48J**	**0.76J**	**0.49 J**	**0.83J**	<0.40*	< 1.0*	< 0.40*	< 0.40*	< 0.40*	**0.56J***	< 0.40*	<0.40*	<0.40*	**0.89 J**	**1.3**	**2.6**	**1.6**	**1.1**	**1.1**	**4.8**	**14.3**	**2.5**	**7.3**	**1.9**	**1.6**	**2.1**	0.2	200
Tetrachloroethene (PCE)	8260B	< 1.0*	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 0.46	< 0.46	<0.46	< 0.46	< 0.46	<0.46	< 0.46	< 0.46	< 0.46	0.49J	< 0.46	< 0.46	<0.46	0.7	700
Toluene	8260B	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	0.88J	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	0.44 J	< 1.0	<0.26	< 0.26	< 0.26	<0.26	0.53 J	< 1.0	< 1.0	<0.26	< 0.26	< 0.26	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 1.0*	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	< 0.29	< 0.29	<0.29	< 0.29	< 0.29	<0.29	< 0.29	< 1.0	< 0.29	<0.29	< 0.29	< 0.29	<0.29	0.6	600
Trichloroethene (TCE)	8260B	< 1.0	1.1	0.60J	<0.47	< 0.47	<0.47	<0.47	< 1.0	< 1.0	ND	< 1.0	<0.47	< 0.47	<0.47	<0.47	< 1.0	< 0.29	< 1.0	< 1.0	<0.47	< 0.47	<0.47	<0.47	< 1.0	< 1.0	<0.47	< 0.47	< 0.47	<0.47	< 1.0	1.4	< 1.0	<0.47	< 0.47	< 0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	<0.090	< 0.090	<0.090	<0.090	na	na	na	na	<0.090	4.8	7.2	6.3	na	na	na	na	<0.090	< 0.090	< 0.090	< 0.090	na	na	<0.090	< 0.090	< 0.090	< 0.090	na	na	na	<0.090	< 0.090	< 0.090	< 0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	0.48 J	0.39 J	0.60 J	<0.31	1.0	0.69 J	<0.31	145	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	< 0.31	29.3	< 1.0	<0.31	< 0.31	< 0.31	< 0.31	0.69 J	< 1.0	< 1.0	<0.31	< 0.31	< 0.31	< 0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	<0.36	<0.36	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	<0.36	<0.36	55.4	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	< 0.36	< 0.36	18.6	< 1.0	<0.36	< 0.36	< 0.36	< 0.36	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	< 0.36	< 0.36	400	25000
Vinyl chloride	8260B	< 1.0*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	< 0.62*	<0.62*	0.03	30
Xylenes - Total	8260B	0	0	0	0	0	<0.66	<0.66	0	0	0	0	0	0.71 J	<0.66	<0.66	41.05	0	0	0	0	0	<0.66	<0.66	28.9	0	0	0	<0.66	<0.66	0	0	0	0	0	<0.66	<0.66	500	85500
Total VOCs	8260B	1.63	7.1	3.8	1.9	1.9	1.6	1.4	10.59	319.4	24.3	183.5	100.6	35.9	64.0	30.9	551	0	0	0	0.56	0.27	0.41	0	316.1	1.6	3.54	1.9	1.5	1.7	21.4	15.7	2.5	8	1.9	1.6	2.1	NA	NA
Total BTEX	8260B	0	0	0	0	0	0	0	4.33	6.9	4.6	6.7	1.5	7.5	21.4	3.1	56	0	0	0	0	0	0	0	45.4	0	0	0	0	0	2.14	0	0	0	0	0	0	NA	NA
Total TICs	8260B	NT	0	0	NT	NT	NT	NT	NT	282.42	NT	151.39	NT	NT	NT	NT	NT	0	NT	0	NT	NT	NT	NT	164.37	0	NT	NT	NT	NT	0	NT	0	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																																							
Acenaphthene	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	NT	< 20.0	NT	NT	NT	NT	NT	NT	< 22.2	NT	NT	NT	NT	NT	NT	NT	< 21.7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	NT	1.1 J	NT	NT	NT	NT	NT	NT	< 0.99	NT	NT	NT	NT	NT	NT	NT	< 0.86	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	NT	< 0.32	NT	NT	NT	NT	NT	NT	**1.2 J**	NT	NT	NT	NT	NT	NT	NT	< 0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	1000
2-Methylnaphthalene	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	NT	< 0.34	NT	NT	NT	NT	NT	NT	4.6 J	NT	NT	NT	NT	NT	NT	NT	< 0.37	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	NT	< 10.0	NT	NT	NT	NT	NT	NT	< 11.1	NT	NT	NT	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	76.72	NT	NT	NT	NT	NT	NT	59.69	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																																							
Antimony	6010	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	NT	NT	< 2.6*	NT	NT	NT	NT	NT	< 2.6*	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	< 9.1	< 5.0	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	< 3.6	< 1.0	NT	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	< 4.6*	< 1.0	NT	NT	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	NT	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	30.2	3.0 J	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	< 9.1	2.1 J	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	3.4 J	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	**30.5**	< 5.0	NT	NT	NT	NT	NT	< 5.5	< 5.0	NT	NT	NT	NT	NT	NT	**53.9**	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	**54.1**	NT	NT	NT	NT	NT	NT	28.1	NT	NT	NT	NT	NT	NT	NT	15.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	11.8	< 5.0	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	NT	NT	17.0	NT	NT	NT	NT	NT	13.9	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	< 27*	< 10.0	NT	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	< 18.0	< 5.0	NT	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	< 18.0*	< 5.0*	NT	NT	NT	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	NT	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	NT	NT	NT	< 5.0*	NT	NT	NT	NT	NT	< 5.0*	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	322	19.0	NT	NT	NT	NT	NT	61.8	13.2	NT	NT	NT	NT	NT	NT	< 23.0	16.9	NT	NT	NT	NT	NT	NT	60.4	NT	NT	NT	NT	NT	94.3	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																																							
Mercury	7471	<0.20	<0.20	NT	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	NT	NT	< 0.20	NT	NT	NT	NT	NT	<0.20	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting lin
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical	MW-10						MW-11						
Collection Date	Method	4/5&6/2011	3/16/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	4/6/2011	2/19/2013	3/19/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs														
Acetone	8260B	10.7 J	< 25.0	< 10.0	< 10.0	<10.0	< 10.0	10.9J	< 25.0	< 25.0	<10.0	< 10.0	<10.0	<10.0
Acrolein	8260B	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6
Benzene	8260B	< 1.0	< 1.0	<0.25	< 0.25	<0.25	< 0.25	< 1.0	< 1.0	< 1.0	0.31J	< 0.25	<0.25	<0.25
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	<0.17	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	<0.18
2-Butanone (MEK)	8260B	< 5.0	< 5.0	<0.96	< 0.96	<0.96	< 0.96	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96
tert-Butyl Alcohol	8260B	na	na	<3.6	< 3.6	< 3.6	< 3.6	na	na	na	<3.6	< 3.6	< 3.6	< 3.6
n-Butylbenzene	8260B	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41
sec-Butylbenzene	8260B	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38
tert-Butylbenzene	8260B	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40
Chlorobenzene	8260B	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23
Chloroform	8260B	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	0.55J	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14
2-Chlorotoluene	8260B	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35
Dibromochloromethane	8260B	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21
1,2-Dichloroethane	8260B	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	<0.19	< 0.19	0.23J	< 0.19	1.9	1.7	1.9	2.2	2.3	2.9	2.6
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	0.97J	< 1.0	0.59J	0.51J	0.60 J	0.67 J	0.50J
Diisopropyl ether	8260B	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12
Ethylbenzene	8260B	< 1.0	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	< 1.0	< 1.0	0.51J	< 0.30	<0.30	<0.30
Isopropylbenzene	8260B	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40
p-Isopropyltoluene	8260B	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31
Methylene Chloride	8260B	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21
Naphthalene	8260B	< 1.0	< 1.0	<0.24	< 0.24	<0.24	<0.24	< 1.0	< 1.0	< 1.0	0.70J	< 0.24	<0.24	<0.24
n-Propylbenzene	8260B	< 1.0	< 1.0	<0.42	< 0.42	< 0.42	< 0.42	< 1.0	< 1.0	< 1.0	<0.42	< 0.42	< 0.42	< 0.42
Styrene	8260B	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	**7.4**	**19.7**	**8.9**	**19.4**	**13**	**14.3**	**418**	**111**	**152**	**101**	**138**	**136**	**151**
Tetrachloroethene (PCE)	8260B	< 0.46*	< 0.46*	<0.46	< 0.46	<0.46	<0.46	**2**	0.60J	0.69J	0.51J	0.66 J	0.68J	0.67J
Toluene	8260B	0.28 J	< 1.0	<0.26	< 0.26	<0.26	<0.26	0.39J	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2-Trichloroethane	8260B	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	**2.5**	**0.87J**	**1.0**	**0.94J**	**1.1**	**1.1**	**1.1**
Trichloroethene (TCE)	8260B	0.55 J	1.9	0.81J	1.7	1.3	1.4	**55.5**	**23.0**	**29.1**	**24.1**	**32.1**	**29.8**	**32.2**
1,2,3-Trimethylbenzene	8260B	na	na	<0.090	< 0.090	< 0.090	< 0.090	na	na	na	0.16J	< 0.090	< 0.090	< 0.090
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	<0.31	< 0.31	< 0.31	< 0.31	< 1.0	< 1.0	< 1.0	0.41J	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	<0.36	< 0.36	< 0.36	< 0.36	< 1.0	< 1.0	< 1.0	<0.090	< 0.36	< 0.36	< 0.36
Vinyl chloride	8260B	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*
Xylenes - Total	8260B	0	0	0	0	<0.66	<0.66	0	0	0	0	0	<0.66	<0.66
Total VOCs	8260B	18.9	21.6	9.7	21.1	15	15.7	493	137	185	131	175	171	188
Total BTEX	8260B	0.28	0	0	0	0	0	0.39	0	0	0.82	0	0	0
Total TICs	8260B	0	0	NT	NT	NT	NT	0	NT	0	NT	NT	NT	NT
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs														
Acenaphthene	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
Benzyl Alcohol	8270	NT	NT	NT	NT	NT	NT	< 23.8	NT	NT	NT	NT	NT	NT
bis(2-Ethylhexyl)phthalate	8270	NT	NT	NT	NT	NT	NT	< 0.94	NT	NT	NT	NT	NT	NT
Dibenzofuran	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
Fluorene	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
1-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	< 0.38	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
2-Methylphenol	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
Naphthalene	8270	NT	NT	NT	NT	NT	NT	< 0.40	NT	NT	NT	NT	NT	NT
Phenanthrene	8270	NT	NT	NT	NT	NT	NT	< 11.9	NT	NT	NT	NT	NT	NT
Total TICs	8270	NT	NT	NT	NT	NT	NT	163.8	NT	NT	NT	NT	NT	NT
Totals Metals by EPA Method 6010B														
Antimony	6010	< 2.6*	NT	NT	NT	NT	NT	< 2.6*	NT	NT	NT	NT	NT	NT
Arsenic	6010	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT
Beryllium	6010	< 1.0	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	NT
Cadmium	6010	< 1.0	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT	NT
Chromium	6010	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT
Copper	6010	< 5.0	NT	NT	NT	NT	NT	3.4 J	NT	NT	NT	NT	NT	NT
Lead	6010	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	6010	21.4	NT	NT	NT	NT	NT	7.3	NT	NT	NT	NT	NT	NT
Selenium	6010	< 10.0	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT
Silver	6010	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT
Thallium	6010	< 5.0*	NT	NT	NT	NT	NT	< 5.0*	NT	NT	NT	NT	NT	NT
Zinc	6010	86.6	NT	NT	NT	NT	NT	31.8	NT	NT	NT	NT	NT	NT
Mercury by EPA Method 7471														
Mercury	7471	< 0.20	NT	NT	NT	NT	NT	< 0.20	NT	NT	NT	NT	NT	NT

Sample ID	MW-12							MW-13					
Collection Date	4/6/2011	2/19/2013	3/19/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	4/6/2011	3/16/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs													
Acetone	< 25.0	< 25.0	< 25.0	26.8	< 10.0	<10.0	<10.0	33.3	< 25.0	<10.0	< 10.0	<10.0	<10.0
Acrolein	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6
Benzene	**75.0**	**67.7**	**163.0**	**44**	**158**	**184**	**127**	< 1.0	< 1.0	0.27J	< 0.25	<0.25	<0.25
Bromodichloromethane	< 0.18	< 0.18	< 20.0*	<0.18	< 0.18	<0.17	<0.18	< 0.18	< 0.18	<0.18	< 0.18	<0.17	< 0.18
2-Butanone (MEK)	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96
tert-Butyl Alcohol	na	na	na	**46.2J**	4.6 J	< 3.6	< 3.6	na	na	<3.6	< 3.6	< 3.6	< 3.6
n-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.41	< 3.6	< 0.41	1.8	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41
sec-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.38	< 0.41	< 0.38	< 0.38	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.40	< 0.38	< 0.40	< 0.40	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40
Chlorobenzene	< 1.0	1.4	< 1.0	<0.23	< 0.40	<0.23	<0.23	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23
Chloroform	< 1.0	< 1.0	< 1.0	<0.14	< 0.23	<0.14	<0.14	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14
2-Chlorotoluene	4.6	9.2	6.1	6.7	6.8	9.2	5.7	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35
Dibromochloromethane	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21
Dichlorodifluoromethane	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21
1,2-Dichloroethane	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12
cis-1,2-Dichloroethene	9.9	21.0	6.6	21	6.6	7.7	4.3	< 1.0	1.1	1.2	1.3	1.6	1.8
trans-1,2-Dichloroethene	6.5	17.7	5.9	18.7	5.7	7.2	4.2	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49
Diisopropyl ether	3.3	4.3	5.5	3	6.4	4.8	4.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12
Ethylbenzene	16.9	20.9	117	<0.30	193	160	64.5	< 1.0	< 1.0	<0.30	<0.30	<0.30	<0.30
Isopropylbenzene	1.4	< 1.0	7.0	<0.40	11.3	12.4	5.7	< 1.0	< 1.0	<0.40	<0.40	<0.40	<0.40
p-Isopropyltoluene	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31
Methylene Chloride	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97
4-Methyl-2-pentanone (MIBK)	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33
Methyl tert-butyl ether (MTBE)	0.59 J	0.45J	0.31J	0.39J	0.31 J	0.25J	0.22J	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21
Naphthalene	2.6	**13.6**	**85.4**	0.34J	**78.9**	**58.1**	**48.1**	< 1.0	< 1.0	<0.24	0.67 J	<0.24	0.86J
n-Propylbenzene	1.8	2.6	15.2	<0.42	25.7	25.2	12.1	< 1.0	< 1.0	<0.42	< 0.42	<0.42	<0.42
Styrene	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	**47.3**	**71.4**	**14.9**	**23.6**	**18.2**	**16.5**	**5.8**	**19.9**	**121**	**91.3**	**132**	**117**	**99.3**
Tetrachloroethene (PCE)	< 0.46*	**0.86J**	< 0.46	0.54J	< 0.46	<0.46	<0.46	< 0.46	< 0.46	0.53J	< 0.46	<0.46	<0.46
Toluene	1.2	1.7	8.3	<0.26	19.3	12.9	2.1	0.75 J	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2-Trichloroethane	**0.79 J**	**1.4**	< 0.29	**0.67J**	< 0.29	<0.29	<0.29	< 0.29	**1.1**	**0.92J**	**1.2**	**1.1**	**0.89J**
Trichloroethene (TCE)	**12.1**	**28.3**	**8.4**	**21.1**	**9.3**	**11.3**	**5.1**	**3.4**	**14.4**	**11.8**	**15.4**	**15**	**12.6**
1,2,3-Trimethylbenzene	na	na	na	<0.090	19.5	13.9	3.9	na	na	<0.090	< 0.090	<0.090	<0.090
1,2,4-Trimethylbenzene	0.73 J	3.3	32.3	<0.31	66.4	48.1	6.1	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31
1,3,5-Trimethylbenzene	< 1.0	< 1.0	2.3	<0.36	5.9	< 0.36	2.7	< 1.0	< 1.0	<0.36	< 0.36	<0.36	<0.36
Vinyl chloride	**1.4**	**7.5**	**4.2**	**7.8**	**4.1**	**3.7**	**4.3**	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*
Xylenes - Total	6.3	12.9	95.5	0.0	178.0	123	18.7	0	0	0	0	<0.66	<0.66
Total VOCs	337.8	286.2	821.2	222	818	699	345	57.4	138	106.0	151	135	115.5
Total BTEX	99.4	103.2	383.8	45	548	480	212	0.75	0	0.27	0	0	0
Total TICs	145.42	NT	243.29	NT	NT	NT	NT	0	0	NT	NT	NT	NT
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs													
Acenaphthene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzyl Alcohol	< 25.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
bis(2-Ethylhexyl)phthalate	< 7.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzofuran	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1-Methylnaphthalene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylphenol	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	< 12.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total TICs	113.23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Totals Metals by EPA Method 6010B													
Antimony	< 2.6*	NT	NT	NT	NT	NT	NT	< 2.6*	NT	NT	NT	NT	NT
Arsenic	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT
Beryllium	< 1.0	NT	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT
Cadmium	< 1.0	NT	NT	NT	NT	NT	NT	< 1.0	NT	NT	NT	NT	NT
Chromium	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT
Copper	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT
Lead	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT
Manganese	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	7.8	NT	NT	NT	NT	NT	NT	13.5	NT	NT	NT	NT	NT
Selenium	< 10.0	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT
Silver	< 5.0	NT	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT
Thallium	< 5.0*	NT	NT	NT	NT	NT	NT	< 5.0*	NT	NT	NT	NT	NT
Zinc	45.3	NT	NT	NT	NT	NT	NT	32.0	NT	NT	NT	NT	NT
Mercury by EPA Method 7471													
Mercury	< 0.20	NT	NT	NT	NT	NT	NT	< 0.20	NT	NT	NT	NT	NT

Sample ID	DW-2							PWS	MW-1 (X)**						North Carolina 2L Groundwater Quality Standards	Gross Contamination Levels for Groundwater
Collection Date	4/1/2011	2/19/2013	3/16/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	4/6/2011	2/19/2013	3/18/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014		
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																
Acetone	< 25.0	< 25.0	< 25.0	< 10.0	< 10.0	<10.0	<10.0	< 25.0	10.5J	< 25.0	< 10.0	< 10.0	<10.0	<10.0	6000	6000000
Acrolein	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	2.2 J	<1.6	4	NE
Benzene	< 1.0	< 1.0	< 1.0	<0.25	< 0.25	<0.25	<0.25	< 1.0	0.35J	0.66J	<0.25	< 0.25	<0.25	<0.25	1	5000
Bromodichloromethane	< 6.0*	< 0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.18	**1.5**	< 0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.18	0.6	NE
2-Butanone (MEK)	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	< 5.0	< 5.0	<0.96	< 0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	na	na	na	<3.6	< 3.6	< 3.6	< 3.6	na	na	na	<3.6	< 3.6	< 3.6	< 3.6	10	10000
n-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41	< 1.0	< 1.0	< 1.0	<0.41	< 0.41	< 0.41	< 0.41	70	6900
sec-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38	< 1.0	< 1.0	< 1.0	<0.38	< 0.38	< 0.38	< 0.38	70	8500
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	< 0.40	< 0.40	70	15000
Chlorobenzene	< 1.0	< 1.0	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	0.37J	< 1.0	<0.23	< 0.23	<0.23	<0.23	50	50000
Chloroform	< 1.0	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	4.3	< 1.0	< 1.0	<0.14	< 0.14	<0.14	<0.14	70	70000
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	< 1.0	< 1.0	<0.35	< 0.35	<0.35	<0.35	100	NE
Dibromochloromethane	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	0.71 J	< 0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	1000	14000
1,2-Dichloroethane	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	<0.19	< 0.19	<0.19	<0.19	< 1.0	< 1.0	< 1.0	<0.19	< 0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	< 1.0	< 1.0	<0.49	< 0.49	<0.49	<0.49	100	100000
Diisopropyl ether	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	< 1.0	< 1.0	< 1.0	<0.12	< 0.12	<0.12	<0.12	70	70000
Ethylbenzene	< 1.0	< 1.0	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	18.2	15.9	8.3	3.6	10.6	6.8	600	84500
Isopropylbenzene	< 1.0	< 1.0	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	3.4	3.5	1.7	0.71 J	1.7	1.2	70	25000
p-Isopropyltoluene	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	5.3	< 1.0	2.3	< 0.31	<0.31	<0.31	25	11700
Methylene Chloride	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 0.33	<0.33	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 0.21	<0.21	<0.21	20	20000
Naphthalene	< 1.0	< 1.0	< 1.0	<0.24	< 0.24	<0.24	<0.24	< 1.0	**7.9**	**7.9**	**7.8**	2.4	3.6	**6.3**	6	6000
n-Propylbenzene	< 1.0	< 1.0	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	3.8	3.3	1.9	0.80 J	1.1	1.2	70	30000
Styrene	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	< 0.40*	< 0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	< 0.40*	< 0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	<0.46	<0.46	0.7	700
Toluene	< 1.0	< 1.0	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	0.46J	0.50J	0.29J	< 0.26	0.40J	<0.26	600	260000
1,1,2-Trichloroethane	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	<0.29	<0.29	0.6	NE
Trichloroethene (TCE)	< 1.0	< 1.0	< 1.0	<0.47	< 0.47	<0.47	<0.47	< 1.0	< 1.0	< 1.0	<0.47	< 0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	na	na	na	<0.090	< 0.090	<0.090	<0.090	na	na	na	7.2	3.5	19.6	13.1	NE	NE
1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	38.1	29.7	13	3.7	22.6	16.8	400	28500
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	<0.36	< 0.36	<0.36	<0.36	< 1.0	24.6	15.7	5	2.4	15.7	8	400	25000
Vinyl chloride	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	<0.62	<0.62*	0.03	30
Xylenes - Total	0	0	0	0	0	<0.66	<0.66	0	47.3	36.8	15.8	5.6	32.25	15.8	500	85500
Total VOCs	0	0	0	0.00	0	0	0	6.51	160.6	204.8	63.0	22.7	109.8	69.2	NA	NA
Total BTEX	0	0	0	0	0	0	0	0	66.7	54.2	24.1	9.2	43.3	22.6	NA	NA
Total TICs	0	NT	0	NT	NT	NT	NT	0	NT	90.49	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																
Acenaphthene	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	< 20.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	< 0.79	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	< 0.32	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	< 0.34	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	86.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																
Antimony	< 2.6*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	**4.1**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	< 1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	17.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	< 5.0*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	56.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																
Mercury	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical	MW-14					MW-15					MW-16				
Collection Date	Method	3/17/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	3/17/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	3/17/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																
Acetone	8260B	< 25.0	< 10.0	< 10.0	<10.0	<10.0	11.5 J	< 10.0	< 10.0	<10.0	<10.0	< 25.0	< 10.0	< 10.0	<10.0	<10.0
Acrolein	8260B	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6
Benzene	8260B	< 1.0	<0.25	< 0.25	<0.25	<0.25	< 1.0	<0.25	< 0.25	<0.25	<0.25	< 1.0	<0.25	< 0.25	<0.25	<0.25
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	<0.17	<0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.18
2-Butanone (MEK)	8260B	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	<0.96	< 0.96	<0.96	<0.96
tert-Butyl Alcohol	8260B	na	<3.6	< 3.6	<3.6	<3.6	na	<3.6	< 3.6	<3.6	<3.6	na	<3.6	< 3.6	<3.6	<3.6
n-Butylbenzene	8260B	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	<0.41	< 0.41	<0.41	<0.41
sec-Butylbenzene	8260B	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	<0.38	< 0.38	<0.38	<0.38
tert-Butylbenzene	8260B	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40
Chlorobenzene	8260B	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	<0.23	< 0.23	<0.23	<0.23
Chloroform	8260B	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	<0.14	< 0.14	<0.14	<0.14
2-Chlorotoluene	8260B	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	<0.35	< 0.35	<0.35	<0.35
Dibromochloromethane	8260B	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21
Dichlorodifluoromethane	8260B	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21
1,2-Dichloroethane	8260B	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	<0.12
cis-1,2-Dichloroethene	8260B	< 1.0	<0.19	< 0.19	<0.19	<0.19	< 1.0	<0.19	< 0.19	<0.19	<0.19	< 1.0	<0.19	< 0.19	<0.19	<0.19
trans-1,2-Dichloroethene	8260B	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	<0.49	< 0.49	<0.49	<0.49
Diisopropyl ether	8260B	< 1.0	<0.12	< 0.12	<0.12	<0.12	< 1.0	0.13J	< 0.12	<0.12	<0.12	< 1.0	<0.12	< 0.12	<0.12	<0.12
Ethylbenzene	8260B	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	<0.30	< 0.30	<0.30	<0.30
Isopropylbenzene	8260B	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40
p-Isopropyltoluene	8260B	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	<0.31	< 0.31	<0.31	<0.31
Methylene Chloride	8260B	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	<0.97	< 0.97	<0.97	<0.97
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	<0.33	< 0.33	<0.33	<0.33
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21
Naphthalene	8260B	< 1.0	<0.24	< 0.24	<0.24	<0.24	< 1.0	<0.24	< 0.24	<0.24	<0.24	< 1.0	<0.24	< 0.24	<0.24	<0.24
n-Propylbenzene	8260B	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	<0.42	< 0.42	<0.42	<0.42
Styrene	8260B	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*
Tetrachloroethene (PCE)	8260B	< 0.46*	<0.46	< 0.46	<0.46	<0.46	< 0.46*	<0.46	< 0.46	<0.46	<0.46	< 0.46*	<0.46	< 0.46	<0.46	<0.46
Toluene	8260B	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2-Trichloroethane	8260B	< 1.0	<0.29	< 0.29	<0.29	<0.29	< 1.0	<0.29	< 0.29	<0.29	<0.29	< 1.0	<0.29	< 0.29	<0.29	<0.29
Trichloroethene (TCE)	8260B	< 1.0	<0.47	< 0.47	<0.47	<0.47	< 1.0	<0.47	< 0.47	<0.47	<0.47	< 1.0	<0.47	< 0.47	<0.47	<0.47
1,2,3-Trimethylbenzene	8260B	na	<0.090	< 0.090	<0.090	<0.090	na	<0.090	< 0.090	<0.090	<0.090	na	<0.090	< 0.090	<0.090	<0.090
1,2,4-Trimethylbenzene	8260B	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	<0.31	< 0.31	<0.31	<0.31
1,3,5-Trimethylbenzene	8260B	< 1.0	<0.36	< 0.36	<0.36	<0.36	< 1.0	<0.36	< 0.36	<0.36	<0.36	< 1.0	<0.36	< 0.36	<0.36	<0.36
Vinyl chloride	8260B	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*
Xylenes - Total	8260B	0	0	0	<0.66	<0.66	0	0	0	<0.66	<0.66	0	0	0	<0.66	<0.66
Total VOCs	8260B	0	0.00	0	0	0	11.5	0.13	0	0	0	0	0	0	0	0
Total BTEX	8260B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total TICs	8260B	0	NT	NT	NT	NT	0	NT	NT	NT	NT	0	NT	NT	NT	NT
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																
Acenaphthene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzyl Alcohol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
bis(2-Ethylhexyl)phthalate	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzofuran	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylphenol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total TICs	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Totals Metals by EPA Method 6010B																
Antimony	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury by EPA Method 7471																
Mercury	7471	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Sample ID	MW-17					MW-18					MW-19				
Collection Date	3/17/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs															
Acetone	< 25.0	< 10.0	< 10.0	<10.0	<10.0	< 25.0	<10.0	< 10.0	<10.0	<10.0	44.5	< 10.0	< 10.0	<10.0	<10.0
Acrolein	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	<1.6
Benzene	< 1.0	<0.25	< 0.25	<0.25	<0.25	< 1.0	<0.25	< 0.25	<0.25	<0.25	< 1.0	<0.25	< 0.25	<0.25	<0.25
Bromodichloromethane	< 0.18	< 0.18	< 0.18	<0.17	< 0.18	< 0.18	<0.18	< 0.18	<0.17	<0.18	< 0.18	< 0.18	< 0.18	<0.17	< 0.18
2-Butanone (MEK)	< 5.0	<0.96	< 0.96	<0.96	<0.96	< 5.0	<0.96	< 0.96	<0.96	<0.96	4.0J	<0.96	< 0.96	<0.96	<0.96
tert-Butyl Alcohol	na	<3.6	< 3.6	<3.6	<3.6	na	**45.6J**	< 3.6	<3.6	<3.6	na	<3.6	< 3.6	<3.6	<3.6
n-Butylbenzene	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	<0.41	< 0.41	<0.41	<0.41	< 1.0	<0.41	< 0.41	<0.41	<0.41
sec-Butylbenzene	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	<0.38	< 0.38	<0.38	<0.38	< 1.0	<0.38	< 0.38	<0.38	<0.38
tert-Butylbenzene	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40
Chlorobenzene	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	<0.23	< 0.23	<0.23	<0.23	< 1.0	<0.23	< 0.23	<0.23	<0.23
Chloroform	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	<0.14	< 0.14	<0.14	<0.14	< 1.0	<0.14	< 0.14	<0.14	<0.14
2-Chlorotoluene	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	<0.35	< 0.35	<0.35	<0.35	< 1.0	<0.35	< 0.35	<0.35	<0.35
Dibromochloromethane	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	<0.21
Dichlorodifluoromethane	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	<0.21	< 0.21	<0.21	<0.21
1,2-Dichloroethane	< 0.12	<0.12	< 0.12	<0.12	<0.12	< 0.12	<0.12	0.37 J	**0.43J**	0.20J	< 0.12	<0.12	< 0.12	<0.12	<0.12
cis-1,2-Dichloroethene	< 1.0	<0.19	< 0.19	<0.19	<0.19	1.1	1	1.3	1.6	1.1	< 1.0	<0.19	< 0.19	<0.19	<0.19
trans-1,2-Dichloroethene	< 1.0	<0.49	< 0.49	<0.49	<0.49	< 1.0	<0.49	< 0.49	0.51J	<0.49	< 1.0	<0.49	< 0.49	<0.49	<0.49
Diisopropyl ether	< 1.0	<0.12	< 0.12	<0.12	<0.12	< 1.0	0.14J	< 0.12	<0.12	<0.12	< 1.0	<0.12	< 0.12	<0.12	<0.12
Ethylbenzene	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	<0.30	< 0.30	<0.30	<0.30	< 1.0	<0.30	< 0.30	<0.30	<0.30
Isopropylbenzene	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40	< 1.0	<0.40	< 0.40	<0.40	<0.40
p-Isopropyltoluene	< 1.0	<0.31	< 0.31	<0.31	<0.31	< 1.0	<0.31	< 0.31	<0.31	<0.31	3.2	<0.31	< 0.31	<0.31	<0.31
Methylene Chloride	< 2.0	<0.97	< 0.97	<0.97	<0.97	< 2.0	<0.97	< 0.97	<0.97	<0.97	1.6J	<0.97	< 0.97	<0.97	<0.97
4-Methyl-2-pentanone (MIBK)	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	<0.33	< 0.33	<0.33	<0.33	< 5.0	<0.33	< 0.33	<0.33	<0.33
Methyl tert-butyl ether (MTBE)	< 1.0	<0.21	< 0.21	<0.21	<0.21	< 1.0	0.27J	0.48 J	0.39J	0.34J	< 1.0	<0.21	< 0.21	<0.21	<0.21
Naphthalene	< 1.0	<0.24	< 0.24	<0.24	<0.24	0.44J	0.35J	< 0.24	<0.24	<0.24	0.61J	<0.24	< 0.24	<0.24	<0.24
n-Propylbenzene	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	<0.42	< 0.42	<0.42	<0.42	< 1.0	<0.42	< 0.42	<0.42	<0.42
Styrene	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	**48.3**	**117**	**177**	**181**	**123**	< 0.40*	<0.40*	< 0.40*	**0.47J**	<0.40*
Tetrachloroethene (PCE)	< 0.46*	<0.46	< 0.46	<0.46	<0.46	< 0.46*	**0.97J**	**1.1**	**1.2**	**0.89J**	< 0.46	<0.46	< 0.46	<0.46	<0.46
Toluene	< 1.0	<0.26	< 0.26	<0.26	<0.26	< 1.0	<0.26	< 0.26	<0.26	<0.26	0.59J	0.32J	< 0.26	<0.26	<0.26
1,1,2-Trichloroethane	< 1.0	<0.29	< 0.29	<0.29	<0.29	0.36J	**1.1**	**1.8**	**1.7**	**1.2**	< 1.0	<0.29	< 0.29	<0.29	<0.29
Trichloroethene (TCE)	< 1.0	<0.47	< 0.47	<0.47	<0.47	**7.3**	**23.4**	**30.8**	**34.6**	**26.1**	< 1.0	<0.47	< 0.47	<0.47	<0.47
1,2,3-Trimethylbenzene	na	<0.090	< 0.090	<0.090	<0.090	na	<0.090	< 0.090	<0.090	<0.090	na	<0.090	< 0.090	<0.090	<0.090
1,2,4-Trimethylbenzene	< 1.0	<0.31	< 0.31	<0.31	<0.31	0.33 J	<0.31	< 0.31	<0.31	<0.31	1.3	<0.31	< 0.31	<0.31	<0.31
1,3,5-Trimethylbenzene	< 1.0	<0.36	< 0.36	<0.36	<0.36	< 1.0	<0.36	< 0.36	<0.36	<0.36	0.41 J	<0.36	< 0.36	<0.36	<0.36
Vinyl chloride	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	< 0.62*	<0.62	< 0.62*	<0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	<0.62*
Xylenes - Total	0	0	0	<0.66	<0.66	0	0	0	<0.66	<0.66	0	0	0	<0.66	<0.66
Total VOCs	0	0	0	0	0	57.8	190	212	221	153	57.43	0.32	0	0.47	0
Total BTEX	0	0	0	0	0	0	0	0	0	0	1.81	0.32	0	0	0
Total TICs	0	NT	NT	NT	NT	0	NT	NT	NT	NT	0	NT	NT	NT	NT
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs															
Acenaphthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzyl Alcohol	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
bis(2-Ethylhexyl)phthalate	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzofuran	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylphenol	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total TICs	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Totals Metals by EPA Method 6010B															
Antimony	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury by EPA Method 7471															
Mercury	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Sample ID	MW-20					MW-21					MW-22					North Carolina 2L Groundwater	Gross Contamination Levels for
Collection Date	3/19/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/8/2013	2/10/2014	4/23/2014	7/31/2014	3/18/2013	10/9/2013	2/10/2014	4/23/2014	7/31/2014	Quality Standards	Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																	
Acetone	< 25.0	<10.0	< 50.0	< 50.0	<40.0	< 25.0	<10.0	<10.0	<10.0	<10.0	< 25.0	<10.0	< 10.0	<10.0	<10.0	6000	6000000
Acrolein	< 8.0*	<1.6	< 8.0	< 8.0	<6.4	< 1.6	<1.6	<1.6	<1.6	<1.6	< 1.6	<1.6	<1.6	<1.6	<1.6	4	NE
Benzene	< 1.0	<0.25	< 1.2*	< 1.2*	**1.2J**	< 1.0	<0.25	<0.25	<0.25	<0.25	< 1.0	<0.25	<0.25	<0.25	<0.25	1	5000
Bromodichloromethane	< 20.0*	<0.18	< 0.090	< 0.090	<.072	< 0.18	<0.18	<0.17	<0.17	<0.18	< 6.0*	<0.18	<0.18	<0.17	<0.18	0.6	NE
2-Butanone (MEK)	34.1	<0.96	< 4.8	< 4.8	<3.8	< 5.0	<0.96	<0.96	<0.96	<0.96	< 5.0	<0.96	<0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	na	**255**	< 18.1	<18.1	<14.5	na	**45.6J**	<3.6	<3.6	<3.6	na	<3.6	<3.6	<3.6	<3.6	10	10000
n-Butylbenzene	7.0	5.5	5.5	6.3	6.0	< 1.0	<0.41	<0.41	<0.41	<0.41	< 1.0	<0.41	<0.41	<0.41	<0.41	70	6900
sec-Butylbenzene	11.7	9.1	9.8	12	10.1	< 1.0	<0.38	<0.38	<0.38	<0.38	< 1.0	<0.38	<0.38	<0.38	<0.38	70	8500
tert-Butylbenzene	3.2 J	2.6J	3.0 J	3.4J	<1.6	< 1.0	<0.40	<0.40	<0.40	<0.40	< 1.0	<0.40	<0.40	<0.40	<0.40	70	15000
Chlorobenzene	< 1.0	<0.23	< 1.2	< 1.2	<0.92	< 1.0	<0.23	<0.23	<0.23	<0.23	< 1.0	<0.23	<0.23	<0.23	<0.23	50	50000
Chloroform	< 1.0	<0.14	< 0.70	< 0.70	<0.56	< 1.0	<0.14	<0.14	<0.14	<0.14	< 1.0	<0.14	<0.14	<0.14	<0.14	70	70000
2-Chlorotoluene	< 1.0	<0.35	< 1.8	< 1.8	<1.4	< 1.0	<0.35	<0.35	<0.35	<0.35	< 1.0	<0.35	<0.35	<0.35	<0.35	100	NE
Dibromochloromethane	< 0.21	<0.21	< 1.0	< 1.0	<0.84	< 0.21	<0.21	<0.21	<0.21	<0.21	< 0.21	<0.21	<0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	< 1.0*	<0.21	< 1.0	< 1.0	<0.84	< 1.0	<0.21	<0.21	<0.21	<0.21	< 1.0	<0.21	<0.21	<0.21	<0.21	1000	14000
1,2-Dichloroethane	< 0.12	<0.12	< 0.60*	< 0.60*	<0.48*	< 0.12	<0.12	<0.12	<0.12	<0.12	< 0.12	<0.12	<0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	< 1.0	<0.19	< 0.95	< 0.95	<0.76	< 1.0	<0.19	<0.19	<0.19	<0.19	< 1.0	<0.19	<0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	< 1.0	<0.49	< 2.4	< 2.4	<2.0	< 1.0	<0.49	<0.49	<0.49	<0.49	< 1.0	<0.49	<0.49	<0.49	<0.49	100	100000
Diisopropyl ether	< 1.0	<0.12	< 0.60	< 0.60	<0.48	< 1.0	<0.12	<0.12	<0.12	<0.12	< 1.0	<0.12	<0.12	<0.12	<0.12	70	70000
Ethylbenzene	10.1	6.2	6.3	7.9	5.5	< 1.0	<0.30	<0.30	<0.30	<0.30	< 1.0	<0.30	<0.30	<0.30	<0.30	600	84500
Isopropylbenzene	21.8	17	19.0	23.1	19.8	< 1.0	<0.40	<0.40	<0.40	<0.40	< 1.0	<0.40	<0.40	<0.40	<0.40	70	25000
p-Isopropyltoluene	< 1.0	<0.31	< 1.6	< 1.6	<1.2	< 1.0	<0.31	<0.31	<0.31	<0.31	< 1.0	<0.31	<0.31	<0.31	<0.31	25	11700
Methylene Chloride	**6.7J**	**73.8**	< 4.8	< 4.8	**9**	< 2.0	<0.97	1.2 J	<0.97	<0.97	< 2.0	<0.97	<0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	< 5.0	<0.33	< 1.6	< 1.6	<1.3	< 5.0	<0.33	<0.33	<0.33	<0.33	< 5.0	<0.33	<0.33	<0.33	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	< 1.0	<0.21	< 1.0	< 1.0	<0.84	< 1.0	<0.21	<0.21	<0.21	<0.21	< 1.0	<0.21	<0.21	<0.21	<0.21	20	20000
Naphthalene	**495**	**520**	**296**	**415**	**432**	< 1.0	0.50J	0.58 J	1.6	1.6	< 1.0	<0.24	<0.24	<0.24	<0.24	6	6000
n-Propylbenzene	30.8	26.2	25.0	33.3	27.5	< 1.0	<0.42	<0.42	<0.42	<0.42	< 1.0	<0.42	<0.42	<0.42	<0.42	70	30000
Styrene	< 5.0	<0.26	< 1.3	< 1.3	<1.0	< 1.0	<0.26	<0.26	<0.26	<0.26	< 1.0	<0.26	<0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	< 0.40*	<0.40*	< 2.0*	< 2.0*	<1.6	< 0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	< 0.40*	<0.40*	<0.40*	<0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	< 0.46	<0.46	< 2.3*	< 2.3*	<1.8*	< 0.46	<0.46	<0.46	<0.46	<0.46	< 0.46	<0.46	<0.46	<0.46	<0.46	0.7	700
Toluene	< 1.0	<0.26	<1.3	4.1J	1.1J	< 1.0	0.32J	< 0.26	<0.26	<0.26	< 1.0	<0.26	<0.26	<0.26	<0.26	600	260000
1,1,2-Trichloroethane	< 1.0*	<0.29	< 1.4*	< 1.4*	<1.2*	< 1.0	<0.29	<0.29	<0.29	<0.29	< 1.0	<0.29	<0.29	<0.29	<0.29	0.6	NE
Trichloroethene (TCE)	< 1.0	<0.47	< 2.4	< 2.4	<1.9	< 1.0	<0.47	<0.47	<0.47	<0.47	< 1.0	<0.47	<0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	na	<0.090	9.5	<0.45	<0.36	na	<0.090	<0.090	<0.090	<0.090	na	<0.090	<0.090	<0.090	<0.090	NE	NE
1,2,4-Trimethylbenzene	45.2	36.8	20.1	33.1	33.7	< 1.0	<0.31	<0.31	<0.31	<0.31	< 1.0	<0.31	<0.31	<0.31	<0.31	400	28500
1,3,5-Trimethylbenzene	< 5.0	7.8	< 1.8	7.5	7.4	< 1.0	<0.36	<0.36	<0.36	<0.36	< 1.0	<0.36	<0.36	<0.36	<0.36	400	25000
Vinyl chloride	< 0.62*	<0.62*	< 3.1*	< 3.1*	<2.5*	< 0.62*	<0.62*	<0.62*	<0.62*	<0.62*	< 0.62*	<0.62*	<0.62*	<0.62*	<0.62*	0.03	30
Xylenes - Total	0	0	3.6	8.2	3.8	0	0	0	<0.66	<0.66	0	0	0	<0.66	<0.66	500	85500
Total VOCs	1398	957	395	554	561	0	46.1	1.78	1.6	1.6	0	0	0	0.34	0	NA	NA
Total BTEX	10.1	6.2	6.3	20.2	11.6	0	0	0	0	0	0	0	0	0	0	NA	NA
Total TICs	742.7	NT	NT	NT	NT	0	NT	NT	NT	NT	0	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																	
Acenaphthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																	
Antimony	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																	
Mercury	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwate
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting lir
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample

DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)

D/DUP = Duplicate Sample

RB = Rinse TB = Trip Blank

FB = Field Blank

MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical Method	MW-1D	RB-MW-11	TB-1	TB-2	TB-4	MW-15 DUP	MW-21 DUP	TRIP BLANK	TRIP BLANK 2	EQUIP RINSE BLANK	EQUIP RINSE BLANK 2	FIELD RINSATE BLANK (MW-1X)	MW-13 DUP	MW-16 DUP	TB-1	TB-2	RB-1	RB-2	FB-1	FB-2	North Carolina 2L Groundwater Quality Standards	Gross Contamination Levels for Groundwater
Collection Date		4/5/2011	3/31/2011	4/6/2011	4/6/2011	4/1/2011	3/17/2013	3/18/2013	3/16/2013	3/18/2013	3/15/2013	3/16/2013	3/18/2013	10/9/2013	10/8/2013	10/8/2013	10/9/2013	10/8/2013	10/9/2013	10/8/2013	10/9/2013		
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																							
Acetone	8260B	< 25.0	5.2 J	11.7 J	16.4 J	13.4 J	10.4 J	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	6000	6000000
Acrolein	8260B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1	5000
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.6	NE
2-Butanone (MEK)	8260B	< 5.0	< 5.0	5.3	6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	na	na	na	na	na	na	na	na	na	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	100	NE
Dibromochloromethane	8260B	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	1000	14000
1,2-Dichloroethane	8260B	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	25	11700
Methylene Chloride	8260B	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.9J	1.5J	< 2.0	< 2.0	< 2.0	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	20	20000
Naphthalene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	**4.7**	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	**91.3**	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 0.46	< 0.46*	< 0.46*	< 0.46*	< 0.46*	< 0.46*	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	<0.46*	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	0.7	700
Toluene	8260B	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	<0.26	<0.26	<0.26	<0.26	0.60J	<0.26	0.65J	600	260000
1,1,2-Trichloroethane	8260B	< 0.29	< 1.0	< 0.29	< 0.29	< 0.29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.88J**	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.6	NE
Trichloroethene (TCE)	8260B	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11.2**	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	na	na	na	na	na	na	na	na	na	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	400	25000
Vinyl chloride	8260B	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	0.03	30
Total Xylenes	8260B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	85500
Total VOCs	8260B	6.0	5.6	17.0	22.8	13.4	10.4	0	1.9	1.5	0	0	0	104.6	0.00	0.00	0.00	0.00	0.60	0.00	0.65	NA	NA
Total BTEX	8260B	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.65	NA	NA
Total TICs	8260B	0	0	0	0	0	0	0	0	0	0	0	0	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																							
Acenaphthene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	< 0.89	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	< 0.36	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	< 0.38	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	51.77	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																							
Antimony	6010	< 2.6*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	< 1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	< 0.50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	4.7 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	< 5.0*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	175	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																							
Mercury	7471	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2014)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.13

Sample ID	Analytical Method	MW-21 DUP	TB-1	EQUIP RINSE BLANK (RB-1)	FB-1	MW-6 DUP	TB-1	EQUIP RINSE BLANK (RB-1)	FB-1	MW-8 DUP	TB-1	EQUIP RINSE BLANK (RB-1)	FB-1	North Carolina 2L Groundwater Quality Standards	Gross Contamination Levels for Groundwater
Collection Date		2/10/2014	2/10/2014	2/10/2014	2/10/2014	4/23/2014	4/23/2014	4/23/2014	4/23/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014		
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs															
Acetone	8260B	< 10.0	< 10.0	< 10.0	< 10.0	39.9	<10.0	18.3J	20.1J	<10.0	<10.0	<10.0	<10.0	6000	6000000
Acrolein	8260B	< 1.6	< 1.6	< 1.6	< 1.6	**8.5 J**	<1.6	<1.6	< 1.6	< 1.6	<1.6	<1.6	< 1.6	4	NE
Benzene	8260B	< 0.25	< 0.25	< 0.25	< 0.25	**6**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1	5000
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	<0.17	<0.17	<0.17	<0.17	<0.18	<0.18	<0.18	<0.17	0.6	NE
2-Butanone (MEK)	8260B	< 0.96	< 0.96	< 0.96	< 0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	< 3.6	< 3.6	< 3.6	< 3.6	<3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	10	10000
n-Butylbenzene	8260B	< 0.41	< 0.41	< 0.41	< 0.41	<0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	70	6900
sec-Butylbenzene	8260B	< 0.38	< 0.38	< 0.38	< 0.38	1.4	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	70	8500
tert-Butylbenzene	8260B	< 0.40	< 0.40	< 0.40	< 0.40	<0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	70	15000
Chlorobenzene	8260B	< 0.23	< 0.23	< 0.23	< 0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	50	50000
Chloroform	8260B	< 0.14	< 0.14	< 0.14	< 0.14	<0.14	<0.14	1.4	1.6	<0.14	<0.14	<0.14	<.014	70	70000
2-Chlorotoluene	8260B	< 0.35	< 0.35	< 0.35	< 0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	100	NE
Dibromochloromethane	8260B	< 0.21	< 0.21	< 0.21	< 0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 0.21	< 0.21	< 0.21	< 0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	1000	14000
1,2-Dichloroethane	8260B	< 0.12	< 0.12	< 0.12	0.14 J	0.16J	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 0.19	< 0.19	< 0.19	< 0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 0.49	< 0.49	< 0.49	< 0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	100	100000
Diisopropyl ether	8260B	< 0.12	< 0.12	< 0.12	< 0.12	8.2	<0.12	<0.12	<0.12	0.59J	<0.12	<0.12	<0.12	70	70000
Ethylbenzene	8260B	< 0.30	< 0.30	< 0.30	< 0.30	13.2	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	600	84500
Isopropylbenzene	8260B	< 0.40	< 0.40	< 0.40	< 0.40	3.5	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	70	25000
p-Isopropyltoluene	8260B	< 0.31	< 0.31	< 0.31	< 0.31	0.32J	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	25	11700
Methylene Chloride	8260B	< 0.97	1.2 J	< 0.97	< 0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 0.33	< 0.33	< 0.33	< 0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	8260B	< 0.21	< 0.21	< 0.21	< 0.21	0.43J	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	20	20000
Naphthalene	8260B	< 0.24	0.58 J	< 0.24	< 0.24	**19.9**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	6	6000
n-Propylbenzene	8260B	< 0.42	< 0.42	< 0.42	< 0.42	3	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	70	30000
Styrene	8260B	< 0.26	< 0.26	< 0.26	< 0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)	8260B	< 0.40*	< 0.40*	< 0.40*	< 0.40*	**0.88J**	< 0.40*	< 0.40*	< 0.40*	**1.1**	< 0.40*	< 0.40*	< 0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 0.46	< 0.46	< 0.46	< 0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	0.7	700
Toluene	8260B	< 0.26	< 0.26	< 0.26	< 0.26	1	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 0.29	< 0.29	< 0.29	< 0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.6	NE
Trichloroethene (TCE)	8260B	< 0.47	< 0.47	< 0.47	< 0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	< 0.090	< 0.090	< 0.090	< 0.090	<0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 0.31	< 0.31	< 0.31	< 0.31	0.70 J	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 0.36	< 0.36	< 0.36	< 0.36	1.3	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	400	25000
Vinyl chloride	8260B	< 0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	0.03	30
Total Xylenes	8260B	0	0	0	0	1.25	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	500	85500
Total VOCs	8260B	0	1.8	0	0.14	110	0	19.7	21.7	1.7	0	0	0	NA	NA
Total BTEX	8260B	0	0	0	0	21	0	0	0	0	0	0	0	NA	NA
Total TICs	8260B	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs															
Acenaphthene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B															
Antimony	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471															
Mercury	7471	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwate
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

DUP = Duplicate Sample
TB = Trip Blank
RB = Rinse Blank
FB = Field Blank

FIGURES

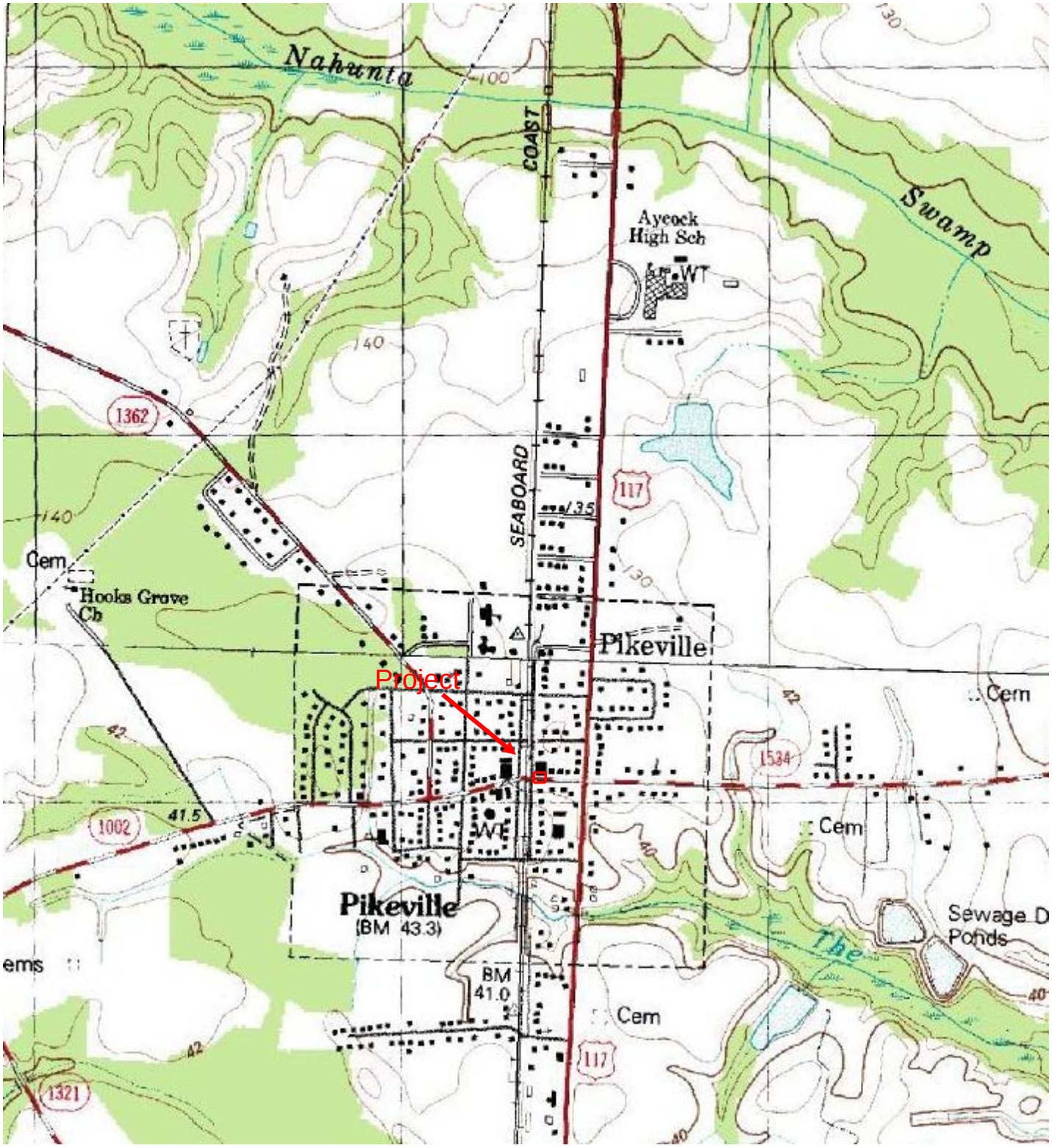

Figure 1 – Site Location Map

Source: USGS 7.5 Minute Topographic Map Pikeville North Carolina Quadrangle 1988

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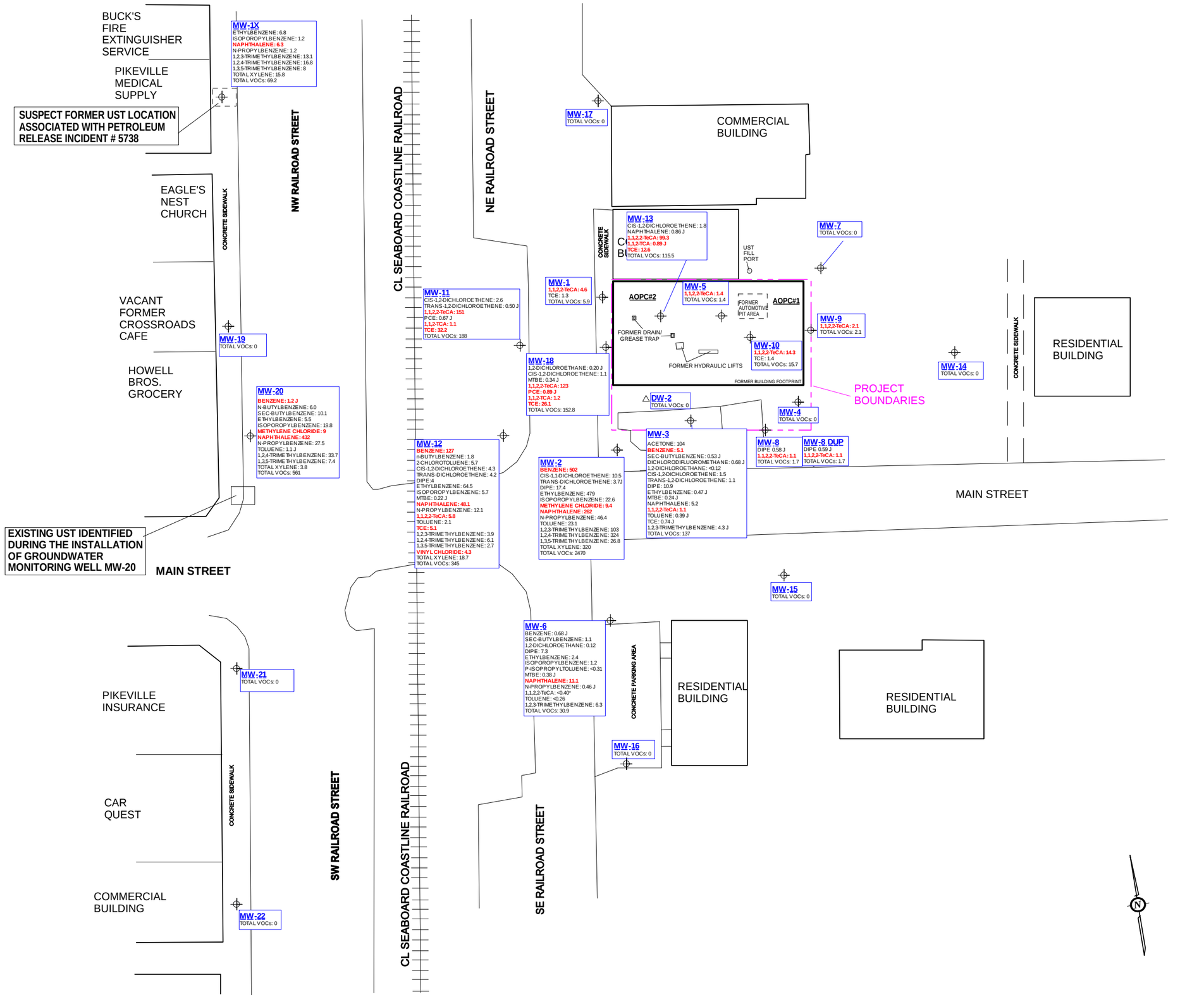
N

Site Name: **R.D. Pate Estate**
101 East Main Street
Pikeville, North Carolina

BB&T Project Number: ESA071433
EA Project Number: 07-7019.13



GROUNDWATER ANALYTICAL RESULTS
JULY 2014

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.13

FIGURE: 2 | DATE: AUGUST 2014

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LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

GROUNDWATER SAMPLES WERE COLLECTED 7/31/2014.

DIPE	DIISOPROPYL ETHER
1,1,2,2-TeCA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

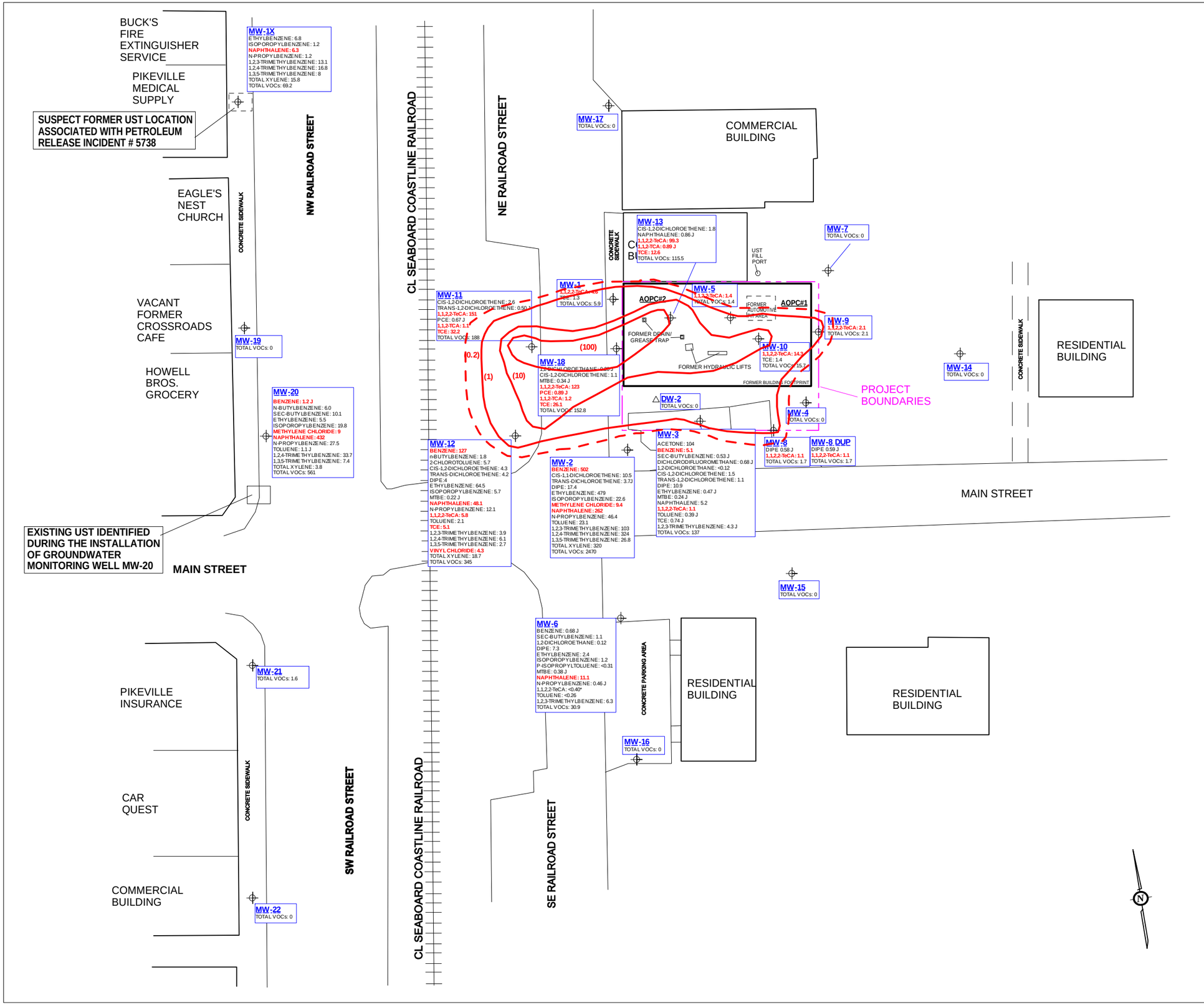
BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

*LABORATORY REPORTING LIMITAND/OR METHOD DETECTION LIMIT EXCEEDS THE NCAC 2L

0 40 80

Scale: 1"=40'



1,1,2,2-TETRACHLOROETHANE (TeCA) GROUNDWATER ISOCONCENTRATION MAP JULY 2014

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.13

FIGURE: 3 | DATE: AUGUST 2014

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LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

GROUNDWATER SAMPLES WERE COLLECTED 7/31/2014.

DIPE	DIISOPROPYL ETHER
1,1,2,2-TeCA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

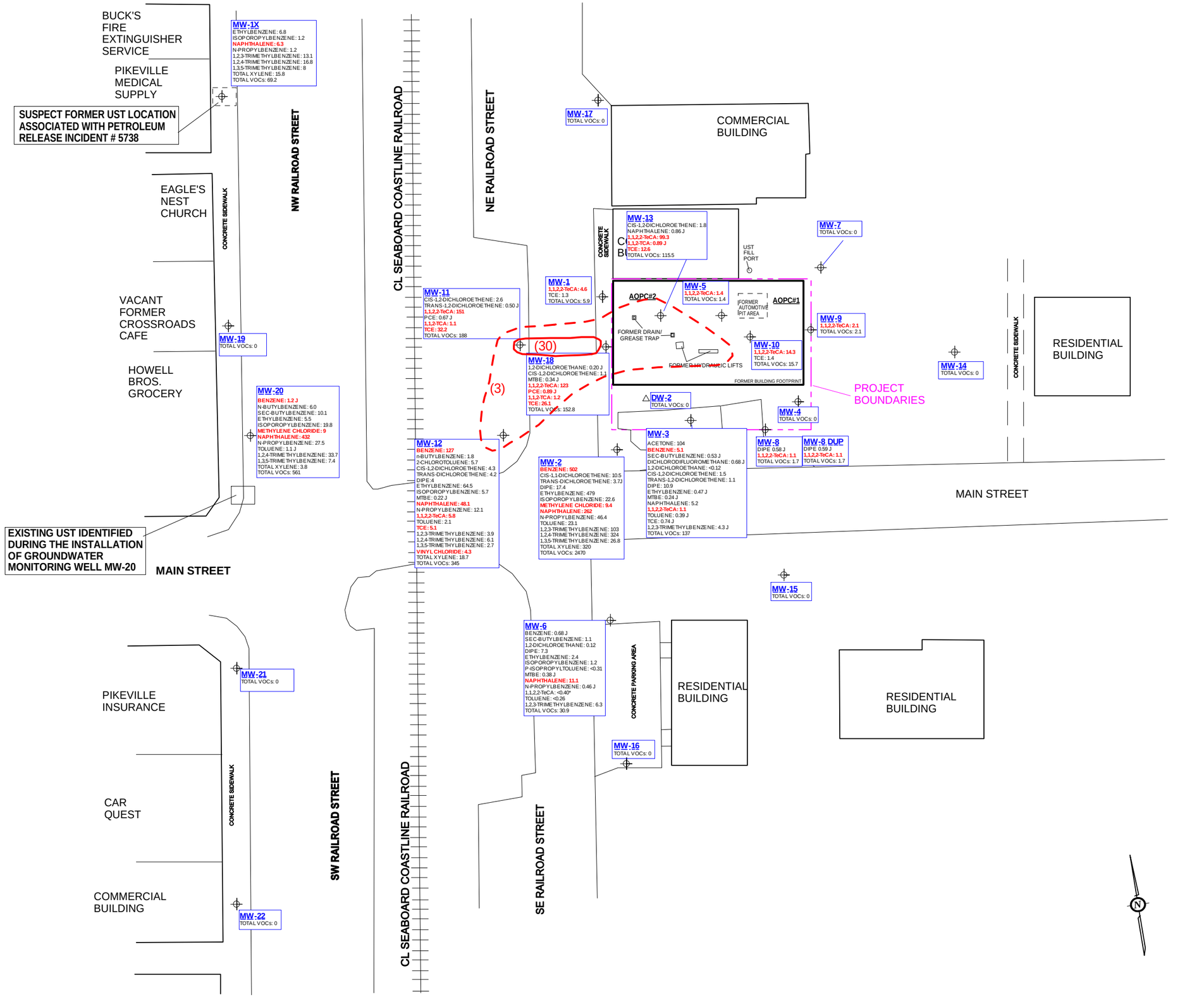
J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

*LABORATORY REPORTING LIMITAND/OR METHOD DETECTION LIMIT EXCEEDS THE NCAC 2L

(100) 1,1,2,2-TETRACHLOROETHANE (TeCA) ISOCONCENTRATION LINE

0 40 80

Scale: 1"=40'



TRICHLOROETHENE (TCE) GROUNDWATER ISOCONCENTRATION MAP JULY 2014

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.13

FIGURE: 4 | DATE: AUGUST 2014

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LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

GROUNDWATER SAMPLES WERE COLLECTED 7/31/2014.

DIPE	DIISOPROPYL ETHER
1,1,2,2-TeCA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

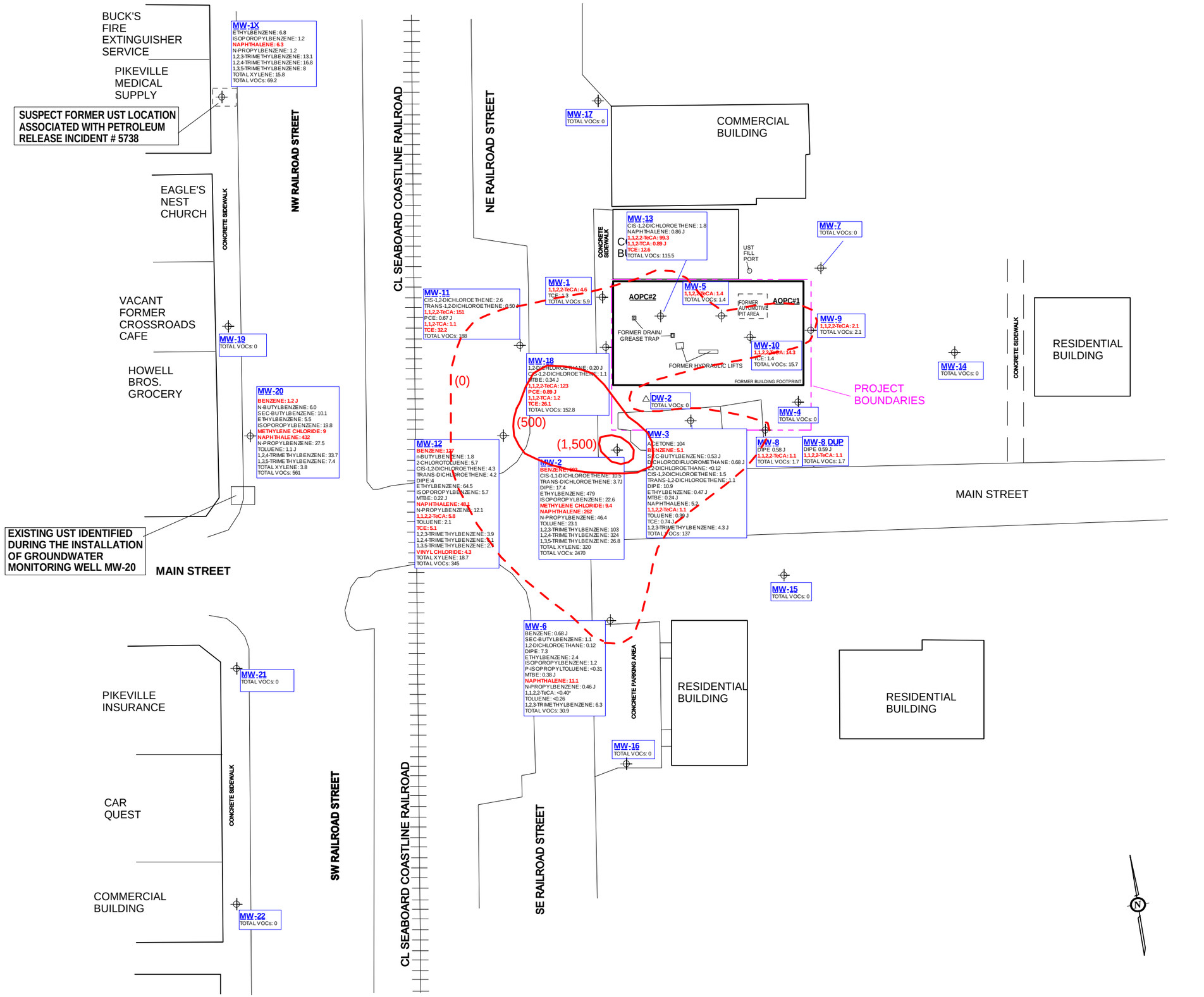
J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

*LABORATORY REPORTING LIMITAND/OR METHOD DETECTION LIMIT EXCEEDS THE NCAC 2L

(30) TRICHLOROETHENE (TCE) ISOCONCENTRATION LINE

0 40 80

Scale: 1"=40'



TOTAL VOCs GROUNDWATER ISOCONCENTRATION MAP JULY 2014

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.13

FIGURE: 5 | DATE: AUGUST 2014

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LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

GROUNDWATER SAMPLES WERE COLLECTED 7/31/2014.

DIPE	DIISOPROPYL ETHER
1,1,2,2-TeCA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

*LABORATORY REPORTING LIMITAND/OR METHOD DETECTION LIMIT EXCEEDS THE NCAC 2L

(100) TOTAL VOC ISOCONCENTRATION LINE

*The VOC contrentrations detected in monitoring wells MW-1X and MW-20 were not included in the Total VOC Isoconcentration Map due to the fact the VOC concentrations detected in these wells appear to be the associated with separate petroleum release(s) from nearby petroleum USTs and do not appear to be a result of chlorinated solvent and/or petroleum releases associated with the R.D. Pate Estate.

0 40 80

Scale: 1"=40'

POTENTIOMETRIC CONTOUR MAP
JULY 2014

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.13

FIGURE: 6 | DATE: AUGUST 2014

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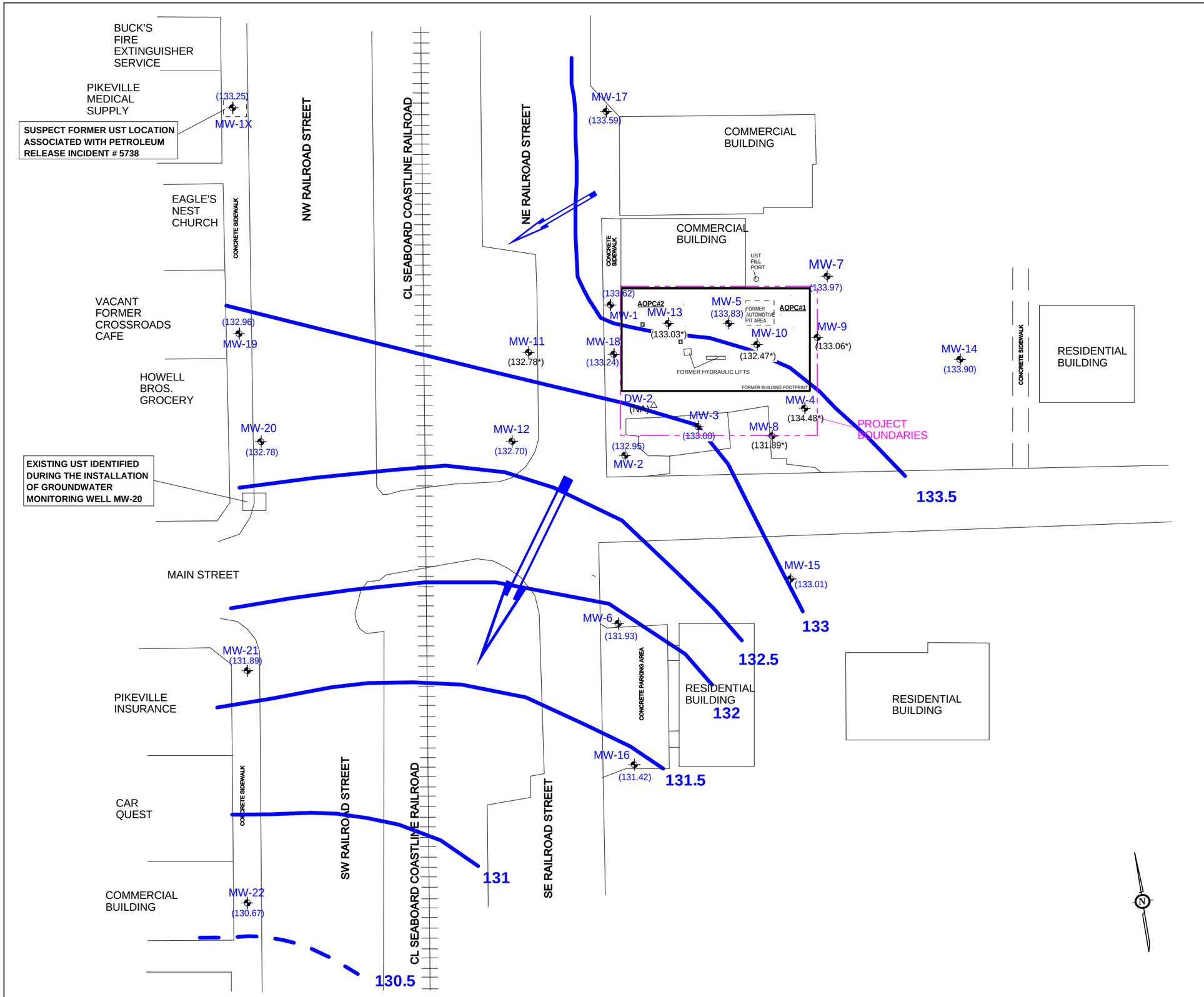


LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP
- (133.35) GROUNDWATER ELEVATON (7-31-2014)
- 132.5 POTENTIOMETRIC CONTOUR LINE (DASHED WHERE INFERRED)
- INTERPRETED SHALLOW GROUNDWATER FLOW DIRECTION

*MW-4, MW-8, MW-9, MW-10, MW-11, MW-13 & DW-2 NOT USED FOR CONTOURING PURPOSES DUE TO OUTLIERS (MW-4), AND/OR WELLS ARE NOT SCREENED IN THE PERMEABLE SHALLOW WATER TABLE AQUIFER.

0 40 80

Scale: 1"=40'

APPENDICES

APPENDIX A

FIELD DATA SHEETS

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-1	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1620

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)			ML/Min
1550	2.58	26.65	0.158	149.5	41.8	3.82	5.75	214.4	No odors	22x6	120
1555	2.75	27.61	0.166	128.1	36.2	2.88	5.69	49.52		17x6	102
1600	2.78	27.46	0.162	119.0	33.4	2.04	5.74	18.82		17x6	102
1605	2.78	27.59	0.164	111.0	32.4	2.57	5.80	12.06		15x6	90
1610	2.80	27.63	0.164	107.2	33.2	2.74	5.84	8.44		14x6	84
1615	2.78	27.68	0.164	105.4	33.1	2.66	5.84	6.30		"	
1620	2.78	27.72	0.164	104.6	34.8	2.78	5.86	6.99		"	

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-2	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1230

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	Comment	ML/min
~~1205~~	2.45	26.61	0.281	~~[illegible]~~	~~[illegible]~~					
~~1210~~										
1205	2.45	26.61	0.281	-16.1	17.5	1.38	6.07	22.62	Strong Petro Odor	25×6=150
1210	2.68	27.23	0.280	-20.2	17.0	1.41	6.04	19.03	"	21×6 124
1215	2.90	27.84	0.279	-24.8	15.7	1.23	6.09	14.47	"	18×6 108
1220	2.99	28.19	0.282	-30.0	10.7	0.83	6.13	8.81		18 108
1225	3.10	28.57	0.284	-32.5	10.0	0.78	6.14	6.39	"	16 92
1230	3.20	28.48	0.285	-33.4	9.2	0.72	6.15	4.41	"	16

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-3	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1325

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)			MH/MIN
1255	2.75	24.71	0.190	27.7	40.8	3.5	5.76	4.63	10 GPM	21x6	124
1300	2.80	24.44	0.185	~~20~~ 44.2	20.0	1.65	5.63	3.36	Slight Dstro	19x6	114
1305	2.80	25.22	0.185	52.4	21.0	1.76	5.59	4.29	"	18	108
1310	2.80	25.54	0.185	46.6	17.7	1.45	5.62	3.87	"	18	108
1315	2.78	25.88	0.186	37.1	15.9	1.28	5.66	7.37		17	102
1320	2.79	25.95	0.186	29.2	11.6	0.94	5.69	3.95		16	96
1325	2.78	26.01	0.186	26.6	10.8	0.88	5.69	4.62		16	96

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-4	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1138

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1110	1.28								
1115	1.35	24.6	118.8	223.4	27.6	2.27	5.91	29.10	
1120	1.36	25.7	118.9	198.5	22.0	1.78	6.01	21.84	
1125	1.36	25.7	118.8	194.2	19.7	1.61	6.02	17.66	
1130	1.36	25.7	119.0	191.2	19.0	1.54	6.02	15.50	
1135	1.36	25.7	119.2	189.8	19.1	1.54	6.01	14.31	

Notes: No petro/solvent odors

FLOW RATE = 68 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-5	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1538

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1510	2.45								
1515	2.57	26.5	272.0	243.0	8.7	0.70	5.32	433.4	
1520	2.58	26.5	268.9	235.5	5.5	0.44	5.41	254.1	
1525	2.58	26.3	265.4	230.6	4.4	0.35	5.45	94.72	
1530	2.58	26.3	263.4	228.6	4.3	0.34	5.46	69.06	
1535	2.58	26.2	263.2	228.0	4.2	0.33	5.45	84.56	

Notes: No petro/solvent odor

FLOW RATE = 72 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-6	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1425

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)		
1355	3.25	25.02	0.105	154.0	21.6	1.78	4.85	83.13	Petro Odor 23x6	138
1400	3.50	25.20	0.104	102.2	16.3	1.32	4.86	18.18	20x6	120
1405	3.48	25.45	0.104	94.9	14.5	1.18	4.87	11.05	19x6	114
1410	3.45	25.51	0.104	85.8	10.0	0.82	4.93	9.54	18x6	109
1415	3.44	25.76	0.104	80.1	9.3	0.76	4.98	13.42	17	102
1420	3.43	25.64	0.104	75.4	9.5	0.78	5.01	19.85	15	90
1425	3.42	25.73	0.104	71.4	8.2	0.67	5.04	28.12		

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-7	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1222

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1145	2.81								
1150	2.85	22.8	157.0	220.9	4.3	0.37	5.46	360.4	
1155	2.85	24.1	155.7	222.4	3.0	0.25	5.45	247.5	
1200	2.85	24.2	156.2	222.5	4.3	0.35	5.45	211.5	
1205	2.85	24.3	155.6	223.6	3.3	0.28	5.46	161.0	
1210	2.85	24.2	155.7	224.0	2.4	0.19	5.45	145.7	
1215	2.86	24.2	155.9	224.1	2.5	0.21	5.44	137.6	
1220	2.86	24.2	155.4	224.3	2.4	0.20	5.44	123.2	

Notes: No Petro / solvent odors

FLOW RATE = 60 ml / min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-8	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1452 / 1455 (Dup)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1420	3.81								
1425	6.86	24.1	72.7	200.4	4.4	0.37	4.80	15.68	
1430	8.59	25.5	73.7	217.9	4.4	0.36	4.74	4.37	
1435	9.22	25.8	73.8	232.2	4.9	0.40	4.68	11.94	
1440	10.45	25.5	76.0	240.8	3.5	0.29	4.63	4.11	
1445	11.74	25.2	76.7	267.5	3.6	0.29	4.59	7.86	
1450	13.08	25.1	76.8	278.7	3.5	0.29	4.59	11.64	

Notes: No petro / solvent odor

FLOW RATE = 42 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-9	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1525

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)		mL/min.
1455	3.46	22.77	0.067	174.4	16.5	1.42	4.36	11.00	No odors 15x6	90
~~1500~~	6.90	22.67	0.066	151.3	15.2	1.31	4.25	10.54	10sec = 14x6	
1505	9.50	23.37	0.065	135.3	11.2	0.95	4.18	4.32	" 13x6	78
1510	11.58	23.70	0.066	126.7	11.9	1.02	4.29	3.28	" 11x6	66
1515	13.20	24.01	0.068	123.3	10.3	0.87	4.35	2.87	" 10x6	60
1520	14.80	24.16	0.069	122.2	10.5	0.88	4.36	3.78	8x6	48
1525	16.05	24.78	0.069	121.4	9.8	0.81	4.38	2.98		

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-10	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1617

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1545	3.83								
1550	6.09	23.7	76.3	241.2	5.0	0.43	4.77	110.2	
1555	7.50	25.0	75.3	262.9	4.0	0.33	4.70	49.57	
1600	9.24	25.2	76.0	275.3	~~2.9~~ 3.8	0.29	4.57	24.28	
1605	10.90	24.5	78.3	284.3	2.9	0.24	4.54	12.27	
1610	12.31	24.2	77.9	290.8	2.3	0.21	4.52	13.37	
1615	13.83	24.0	77.6	292.8	2.5	0.22	4.53	8.57	

Notes: No Petro / Solvent odors

FLOW RATE = 50 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-11	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1756

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)		ML/MIN.
1720	3.50	23.94	0.045	174.1	14.5	1.63	4.67	22.16	No odors 20x6	120
1725	5.42	23.72	0.043	150.2	9.1	0.77	4.63	21.99	17x6	102
1730	8.88	24.06	0.044	148.3	8.8	0.73	4.45	8.23	15x6	90
1735	11.18	24.74	0.044	138.2	8.6	0.71	4.53	9.88	11x6	66
1740	13.00	24.90	0.043	129.3	10.8	0.89	4.64	5.22	6x6	36
1745	14.25	25.38	0.044	123.0	13.2	1.08	4.75	3.08		"
1750	15.23	25.80	0.044	119.6	14.4	1.18	4.82	2.97		"

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-12	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1710

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1640	3.48	24.67	0.257	14.2	15.1	1.26	5.83	4.73	~~Sample Petro~~ 20x6
1645	4.12	24.80	0.257	24.9	15.8	1.24	5.78	3.25	17x6 102
1650	4.12	25.38	0.282	34.3	12.8	1.05	5.83	3.87	15x6 90
1655	4.14	25.59	0.437	16.7	1.34	4.3	6.10	9.02	90
1700	4.15	25.39	0.476	-2.5	12.2	1.00	6.18	3.31	90
1705	4.15	25.35	0.479	-4.7	10.7	0.88	6.24	2.50	90
1710	4.15	25.31	0.484	-5.1	11.8	0.97	6.22	2.25	90

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-13	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1658

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1630	3.30								
1635	6.42	24.7	73.8	279.0	4.9	0.40	4.52	7.03	
1640	7.80	25.3	74.1	287.1	4.0	0.33	4.54	8.69	
1645	9.33	24.9	75.9	293.3	3.4	0.29	4.51	1.48	
1650	10.86	25.1	77.0	293.0	3.6	0.30	4.49	0.96	
1655	12.32	24.8	76.7	296.1	3.5	0.29	4.49	1.21	

Notes: No Petro / solvent odor

FLOW RATE = 44 ml / min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-14	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1048

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1020	2.40								
1025	2.60	23.5	161.2	338.1	6.4	0.54	4.54	41.26	
1030	2.60	24.2	160.2	343.4	3.9	0.34	4.58	24.71	
1035	2.60	24.2	163.2	341.4	3.4	0.28	4.60	18.01	
1040	2.61	24.3	163.9	337.7	3.3	0.28	4.61	3.86	
1045	2.61	24.3	164.0	337.6	3.3	0.28	4.62	3.46	

Notes: No petro/solvent odors

FLOW RATE = 54 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-15	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 0915

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	Flow Rate mL/min
0845	7.65	23.36	0.111	142.4	37.3	3.18	4.62	0.15	10 Sec = 30 ml/L
0850	6.0	23.87	0.096	140.8	39.3	3.32	4.64	0.63	= 27 "
0855	6.81	24.30	0.084	135.6	40.9	3.42	4.73	1.58	= 18 "
0900	7.60	24.20	0.084	131.8	31.3	2.62	4.72	1.62	= 14 "
0905	8.45	24.08	0.097	131.1	24.1	2.00	4.65	0.89	= 13 "
0910	9.03	23.92	0.111	129.2	17.2	1.45	4.62	0.64	= 10 "
0915	9.40	23.86	0.115	127.3	13.5	1.14	4.61	0.87	

ml/min
180
162
124
84
78
60 ml/min

Notes:

FLOW RATE =

QA: ~~Aqua~~ Athena Peristaltic Pump
7-9-14
Serial # 84645
Enviro - JAR

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-16	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1105

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1035	3.30	25.15	0.077	192.1	19.2	1.69	4.81	54.25	1050c = 20
1040	5.10	24.06	0.076	~~185~~	~~1.55~~	1.55	4.61	43.41	15
1045	5.55	24.58	0.073	172.0	18.5				14
~~1050~~	~~6.30~~	~~25.04~~	~~0.071~~	154.3	14.3	1.19	4.64	30.26	14
1050	6.30	25.14	0.071	137.4	14.2	1.17	4.85	31.72	
1055	7.00	25.37	0.070	130.3	14.5	1.17	5.03	45.28	8
1100	7.45	25.43	0.073	126.3	13.7	1.13	5.11	200.2	10
1105	7.60	25.49	0.074	124.2	14.4	1.15	5.13	259.4	

ML/MIN
120
90
48
60

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-17	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1015

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)		
0945	2.95	24.19	0.234	201.5	87.8	7.14	4.34	48.64	1050c -2046 =	120 ml/M
0950	3.15	22.83	0.253	187.1	59.0	5.06	4.08	43.73	= 18	108
0955	3.02	23.12	0.252	173.1	53.0	4.53	4.02	50.56	= 14	84
1000	3.02	23.43	0.238	165.3	51.3	4.36	4.07	14.93	= 14	84
1005	3.02	23.43	0.230	163.0	50.30	4.28	4.09	9.54	= 15	90
1010	3.02	23.50	0.224	161.5	50.40	4.28	4.11	7.13	= 15	90
1015	3.02	23.53	0.223	161.1	49.7	4.21	4.11	6.20	= 15	90

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-18	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1738

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1705	2.73								
1710	5.42	27.4	261.1	262.0	4.4	0.35	5.32	3.56	
1715	5.80	28.5	263.7	256.3	6.1	0.47	5.39	2.18	
1720	6.02	29.0	262.4	246.3	9.0	0.70	5.47	1.37	
1725	6.29	29.4	262.6	233.5	9.5	0.73	5.59	1.65	
1730	6.53	29.4	262.3	226.0	8.9	0.69	5.66	1.70	
1735	6.78	29.1	267.1	222.9	9.3	0.71	5.67	2.31	

Notes: No Petro / Solvent Odor

FLOW RATE = 33 ml / min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-19	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1407

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1340	2.53								
1345	5.13	25.9	191.3	86.5	3.0	0.24	5.46	9.27	
1350	5.53	26.2	194.2	88.5	3.2	0.26	5.52	10.98	
1355	5.95	26.3	199.0	88.3	2.3	0.19	5.53	11.05	
1400	6.30	26.2	200.3	86.2	2.3	0.19	5.54	7.40	
1405	6.77	26.1	201.6	84.7	2.2	0.18	5.54	6.33	

Notes: No petro/solvent odor

FLOW RATE = 42 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-20	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1332

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1310	2.55								
1315	3.04	28.2	221.6	-25.0	3.1	0.24	6.05	22.56	
1320	3.04	28.4	230.4	-66.5	2.0	0.16	6.09	16.62	
1325	3.05	28.4	236.8	-84.6	1.9	0.15	6.10	8.93	
1330	3.05	28.4	242.8	-106.0	1.9	0.15	6.10	8.58	

Notes: Petroleum odor

FLOW RATE = 68 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-21	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1012

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)
0940	3.30							
0945	3.36	24.5	130.9	335.8	18.2	1.52	4.81	12.08
0950	3.36	24.9	127.7	336.2	15.6	1.31	4.76	6.19
0955	3.36	24.8	126.5	338.4	13.4	1.11	4.73	2.79
1000	3.37	24.8	126.0	338.0	12.5	1.03	4.72	2.17
1005	3.37	24.8	125.5	337.4	12.7	1.05	4.72	1.34
1010	3.38	24.8	125.5	337.3	12.6	1.05	4.72	0.72

Notes: No petro. / solvent odor

FLOW RATE = 44 ml / min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-22	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 0923

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
0850 ~~0845~~	~~8~~ 4.28								
0855 ~~0850~~	4.41	24.3	236.0	305.7	9.7	0.81	4.71	38.54	
0900 ~~0855~~	4.41	24.4	225.1	323.9	5.9	0.49	4.65	22.02	
0905 ~~0900~~	4.41	24.4	220.1	319.7	5.3	0.44	4.60	7.80	
0910	4.41	24.5	217.5	335.6	4.7	0.39	4.58	4.12	
0915	4.42	24.4	214.5	341.5	4.9	0.40	4.55	4.02	
0920	4.42	24.4	214.2	342.7	4.9	0.40	4.55	3.93	

Notes: No petro/solvent odor

FLOW RATE = 54 ml/min

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: DW - 2	Purge Date: 7-31-14	Sample Date: 7-31-14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1145

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)	
1130	5.37	22.61	0.121	190.6	36.6	3.04	4.31	3.26	10 sec = 22 ml
1135	6.18	22.94	0.116	138.2	12.8	1.10	4.53	2.37	18 ml
1140	6.38	22.94	0.116	117.3	10.2	0.88	4.57	3.95	19 ml
1145	6.50	22.95	0.115	108.1	8.4	0.72	4.62	1.78	18 ml

Notes:

FLOW RATE =

FIELD DATA - GROUNDWATER

PROJECT NAME: R. D. Pate Estate	Sample ID: MW-1X	Purge Date: 7/31/14	Sample Date: 7/31/14
EA Project Number: 07-7019.13	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1303

FIELD MEASUREMENTS

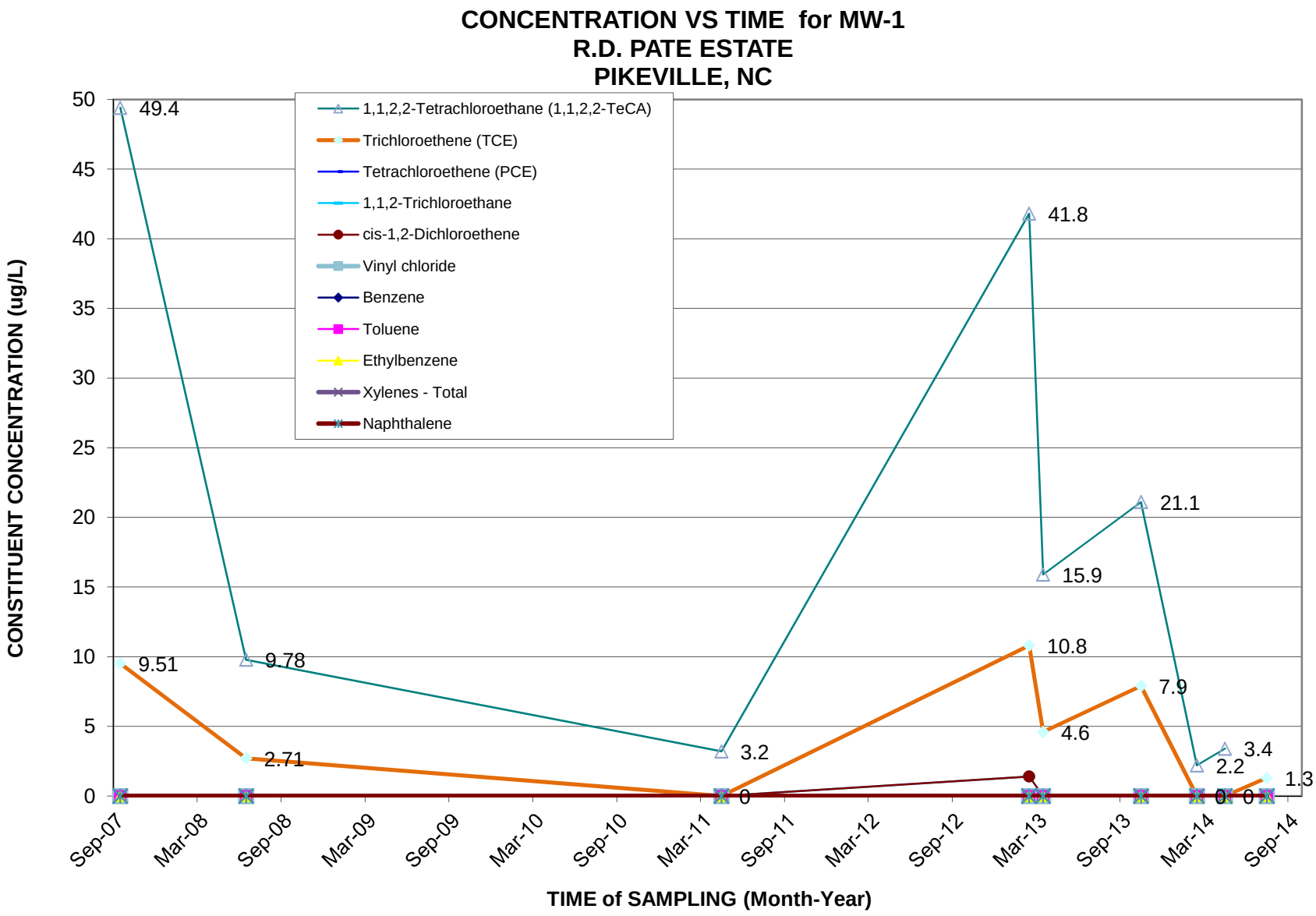
Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	DO (mg/L)	pH	Turbidity (NTU)
1235	2.49							
1240	2.76	25.4	228.9	123.1	4.6	0.38	5.97	19.00
1245	2.77	25.8	230.0	113.9	4.0	0.33	6.01	6.47
1250	2.77	25.7	220.0	113.5	2.6	0.21	6.00	6.08
1255	2.77	25.8	213.6	118.2	2.7	0.22	5.99	3.91
1300								

Notes: Petroleum odor

FLOW RATE = 80 ml/min

APPENDIX B

CONTAMINANT CONCENTRATIONS VS TIME GRAPHS


CONCENTRATION VS TIME for MW-1
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
50
45
40
35
30
25
20
15
10
5
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
49.4
9.78
3.2
41.8
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3.4
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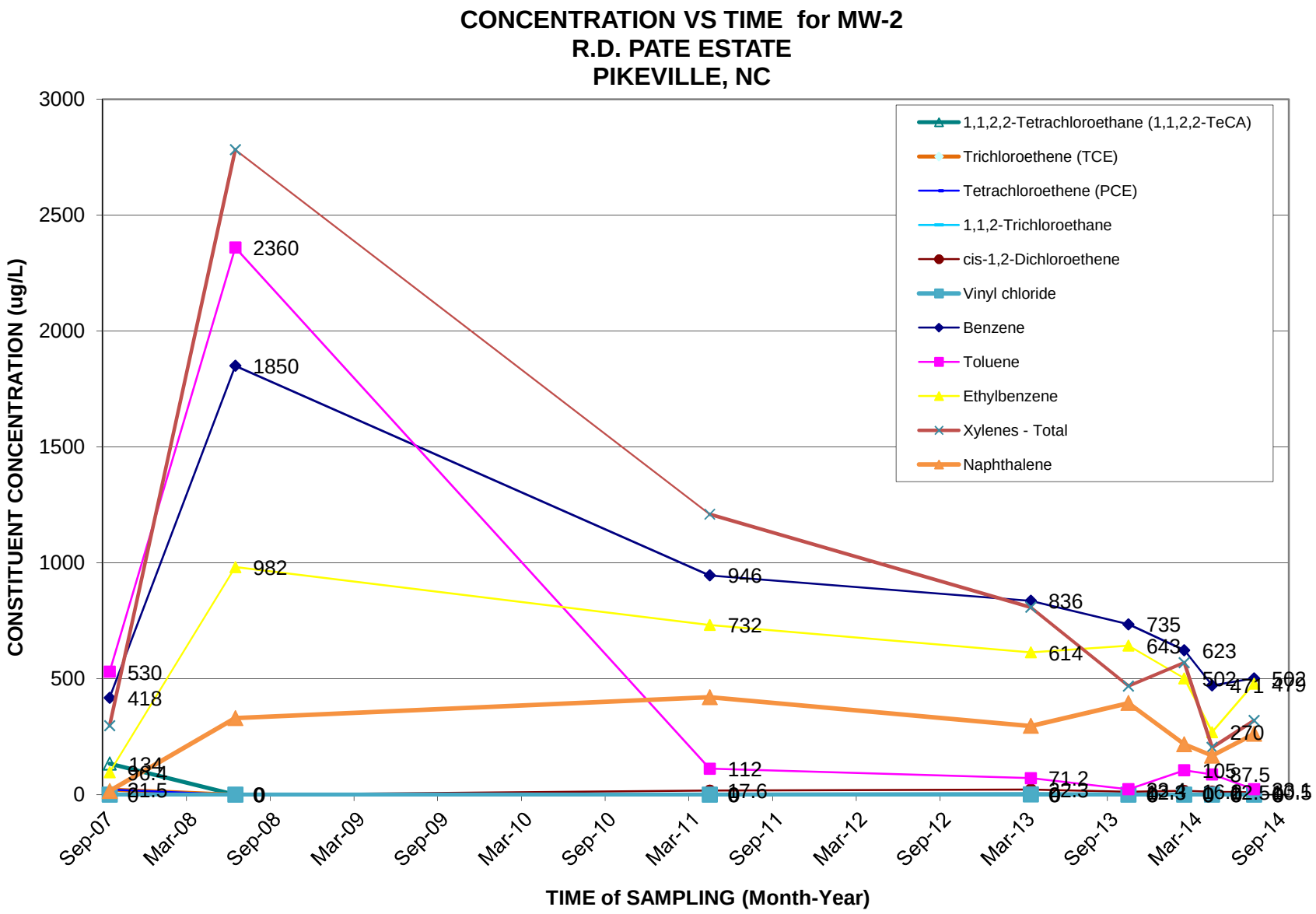
10.8
4.6
7.9
0
0
1.3


CONCENTRATION VS TIME for MW-2
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
3000
2500
2000
1500
1000
500
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
2360
1850
982
946
836
735
732
643
623
614
530
502
502
471
479
418
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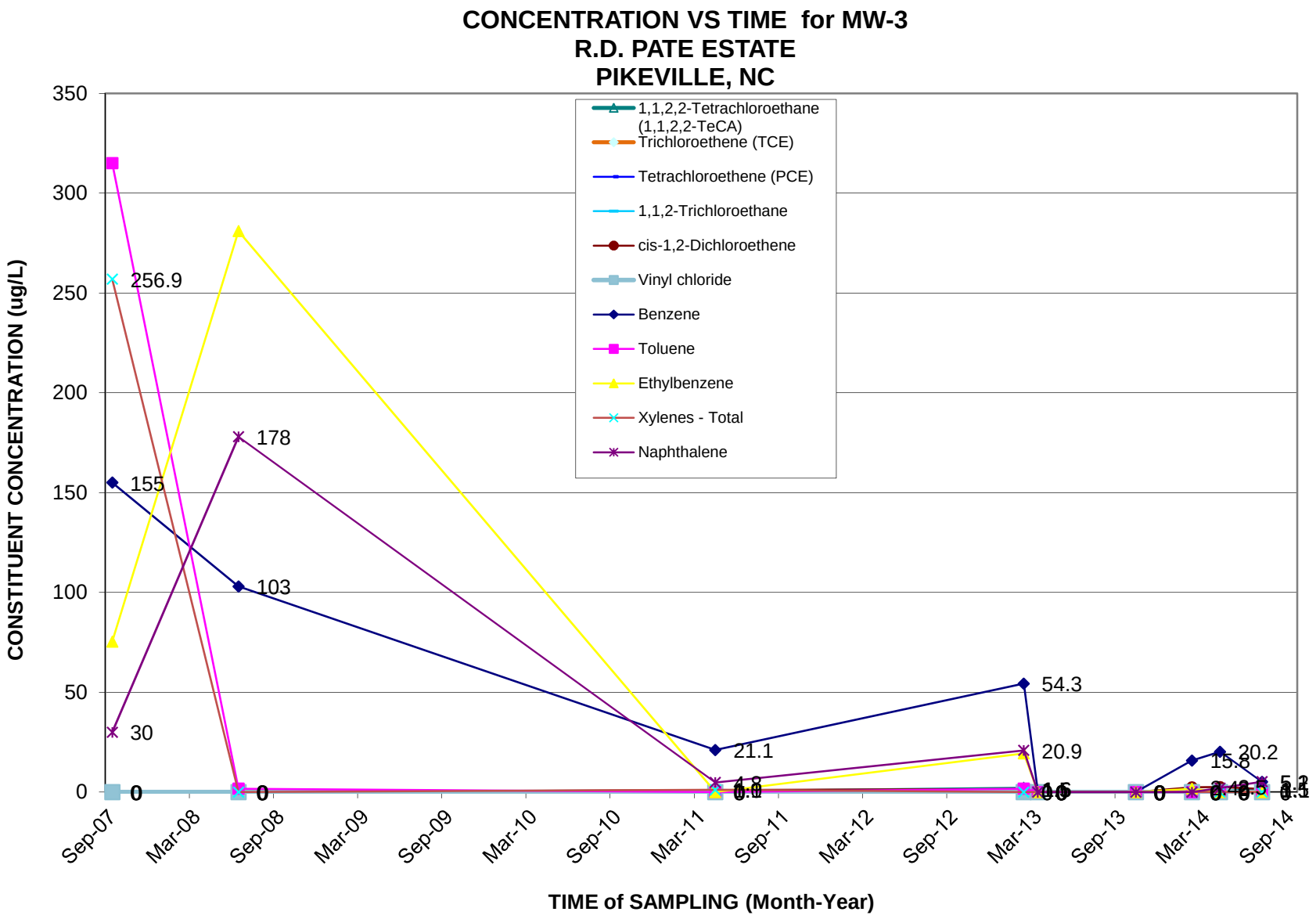
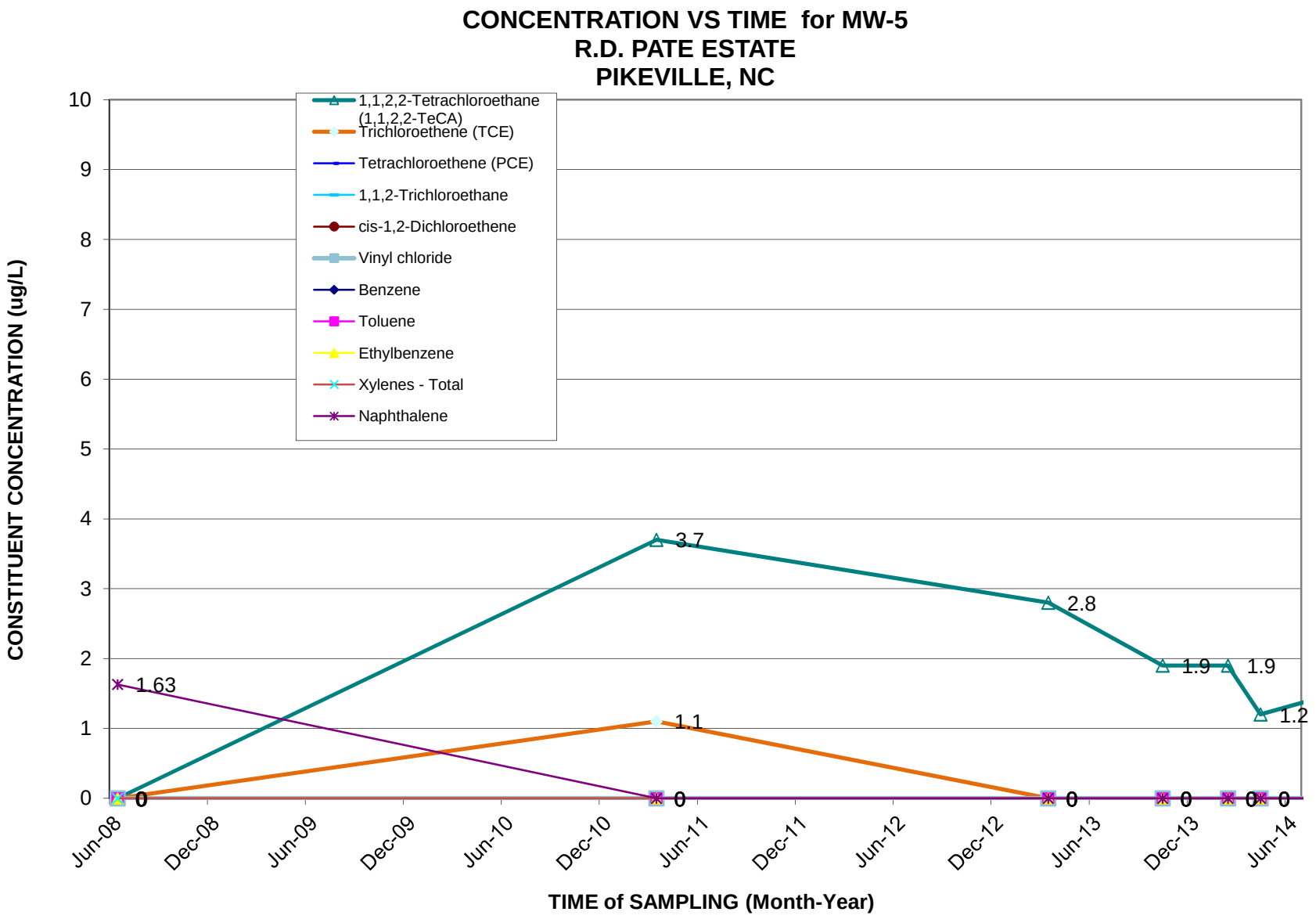
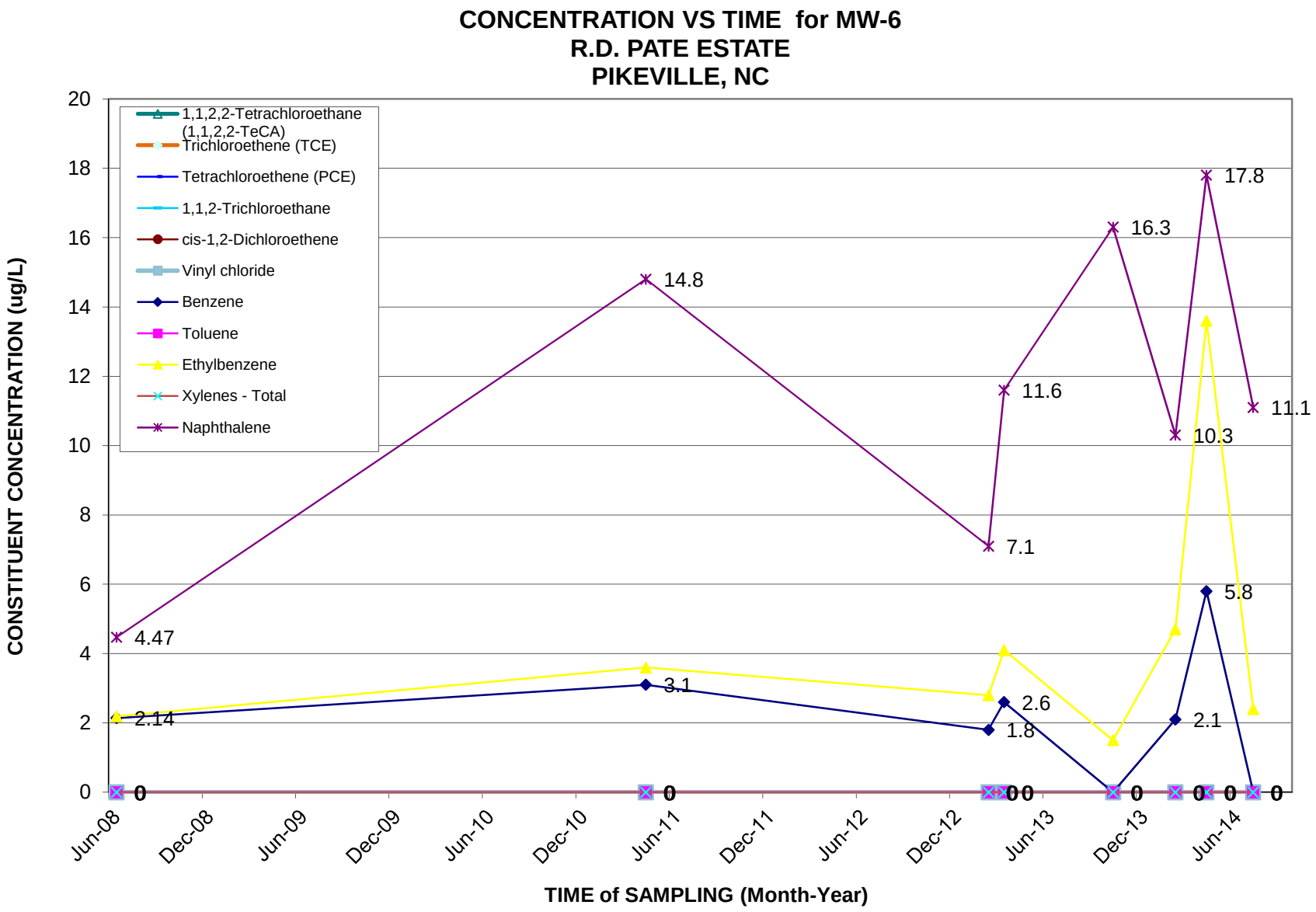
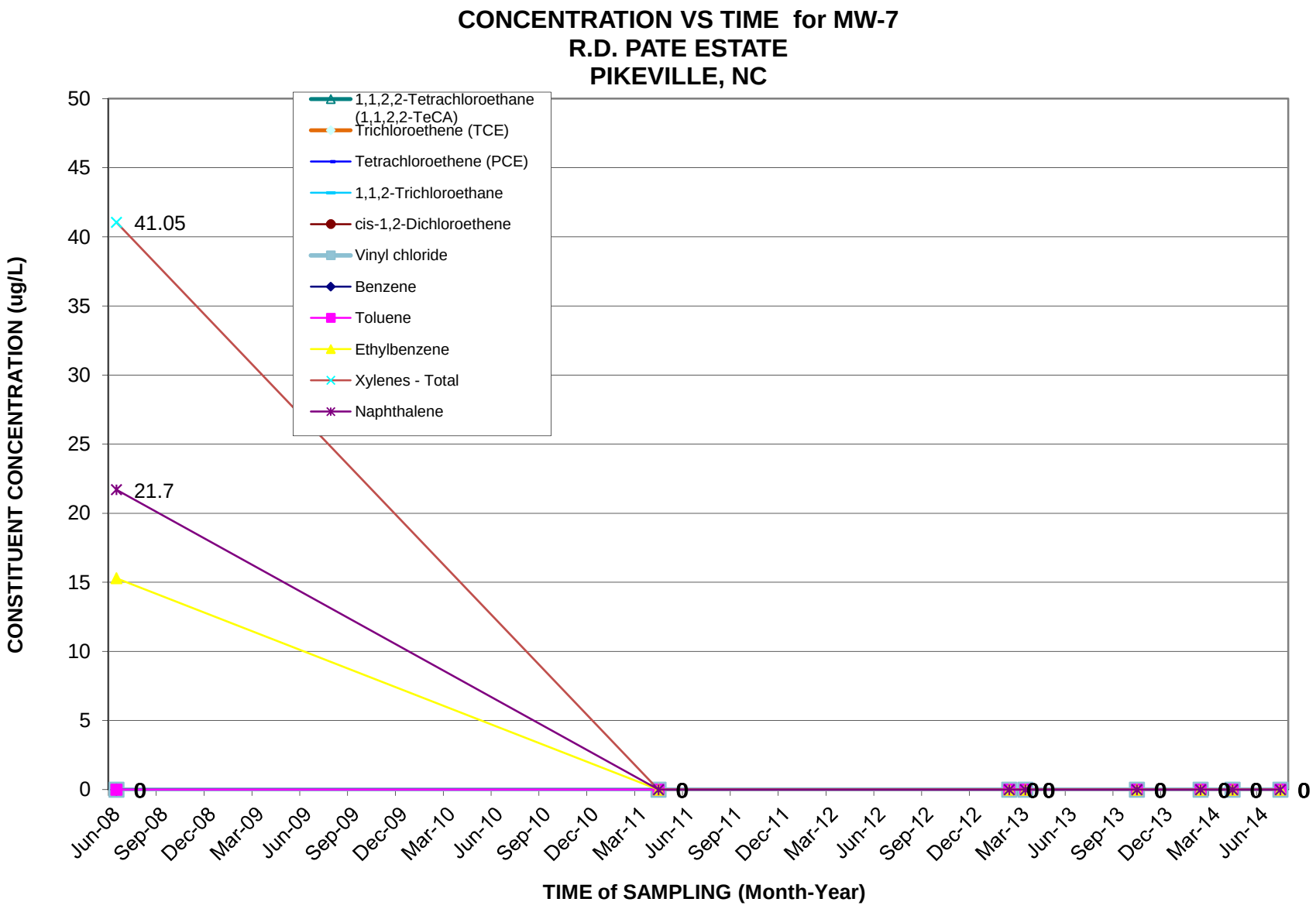
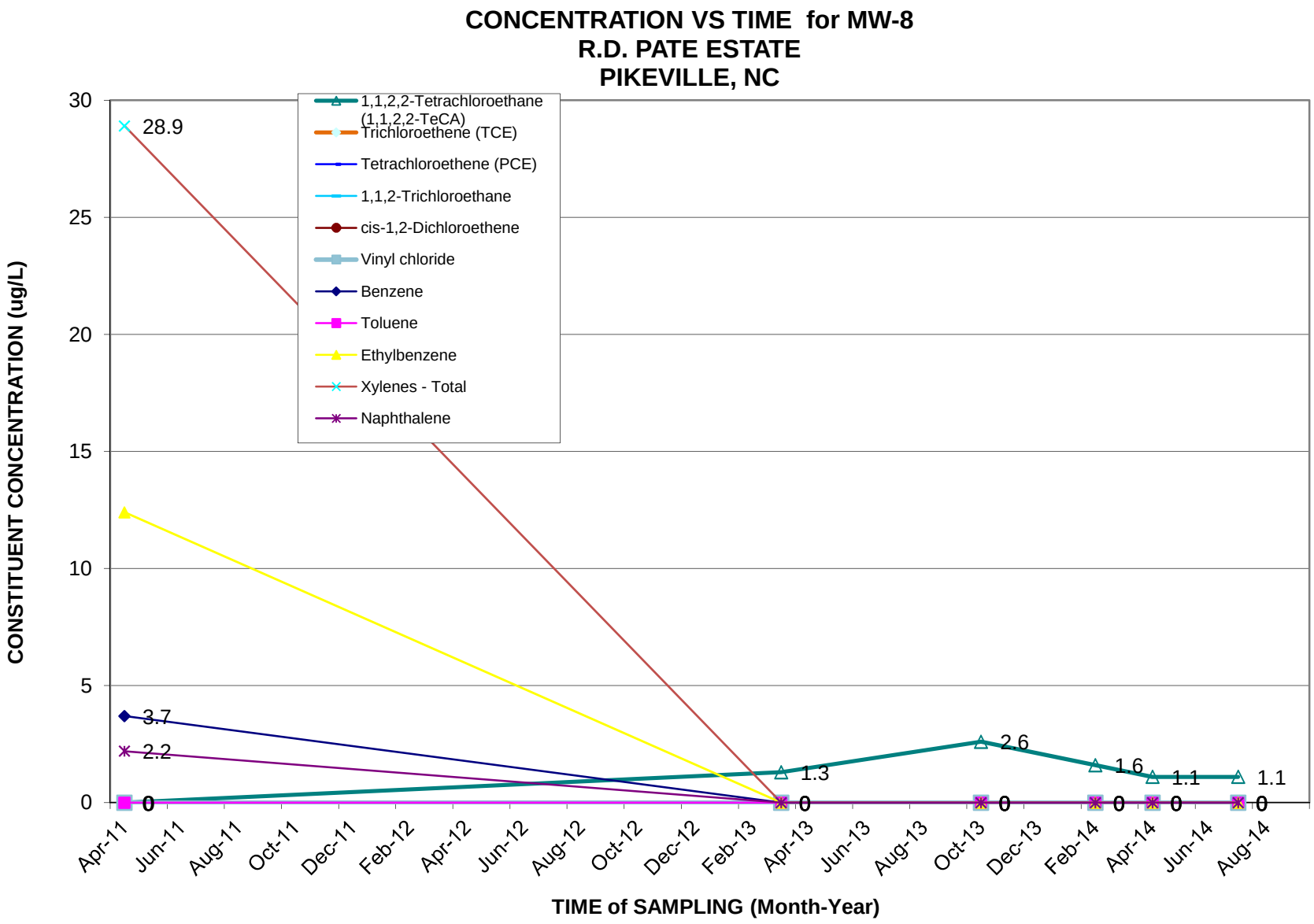
71.2
31.5
17.6
0

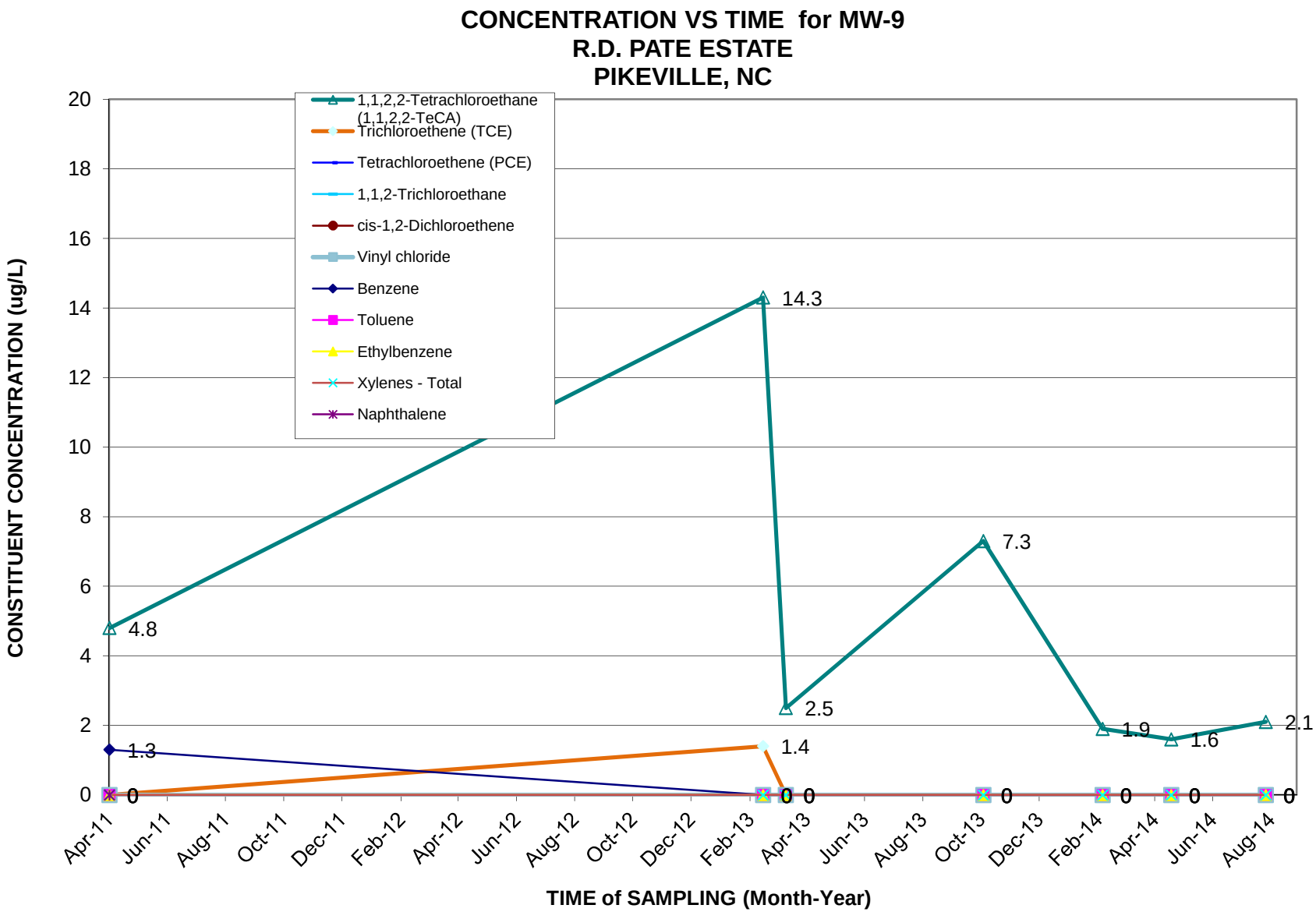

CONCENTRATION VS TIME for MW-3
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
350
300
250
200
150
100
50
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
256.9
178
155
103
54.3
30
21.1
20.9
20.2
15.8
0

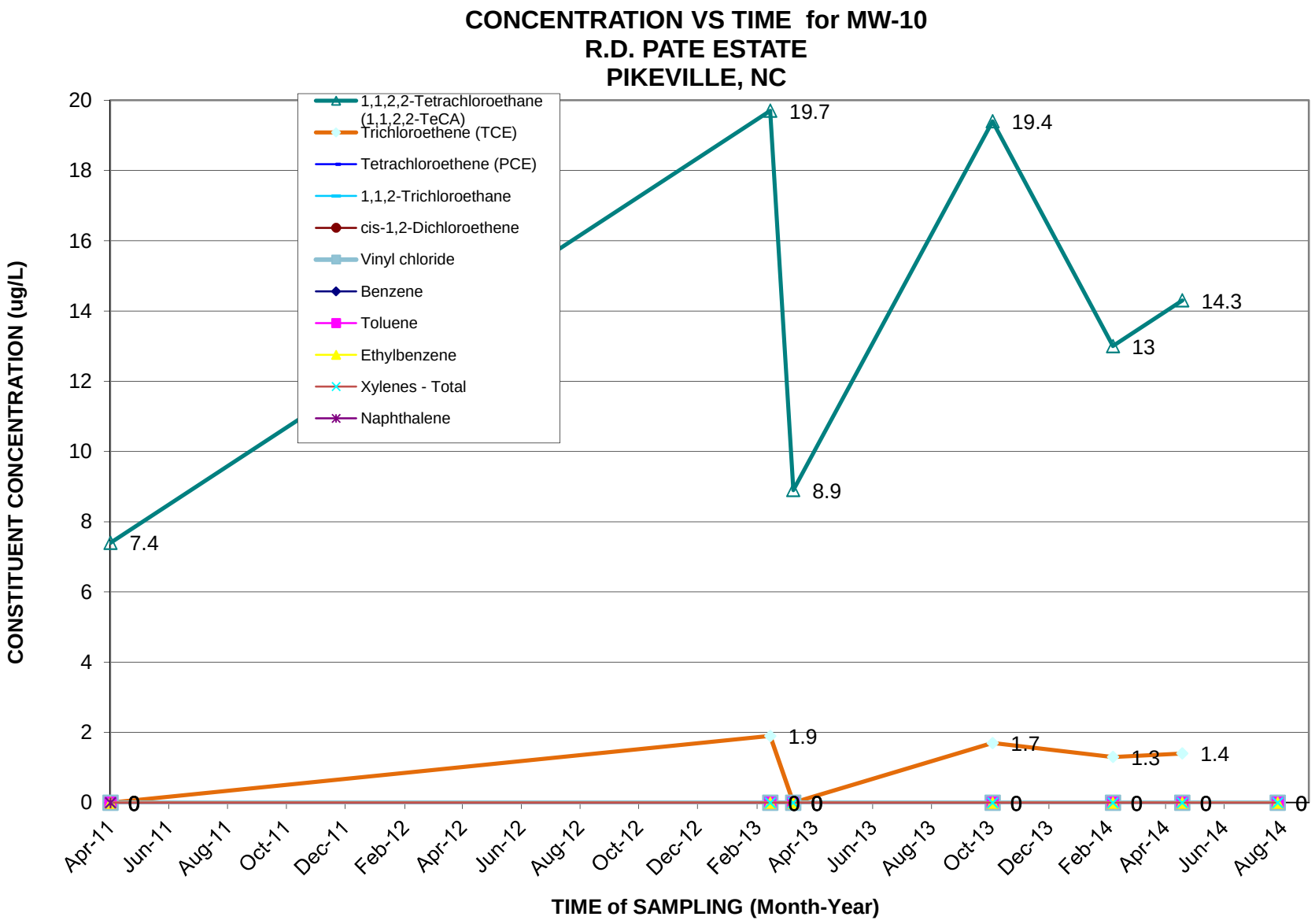

CONCENTRATION VS TIME for MW-5
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
10
9
8
7
6
5
4
3
2
1
0
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
3.7
2.8
1.9
1.9
1.2
1.63
1.1
0

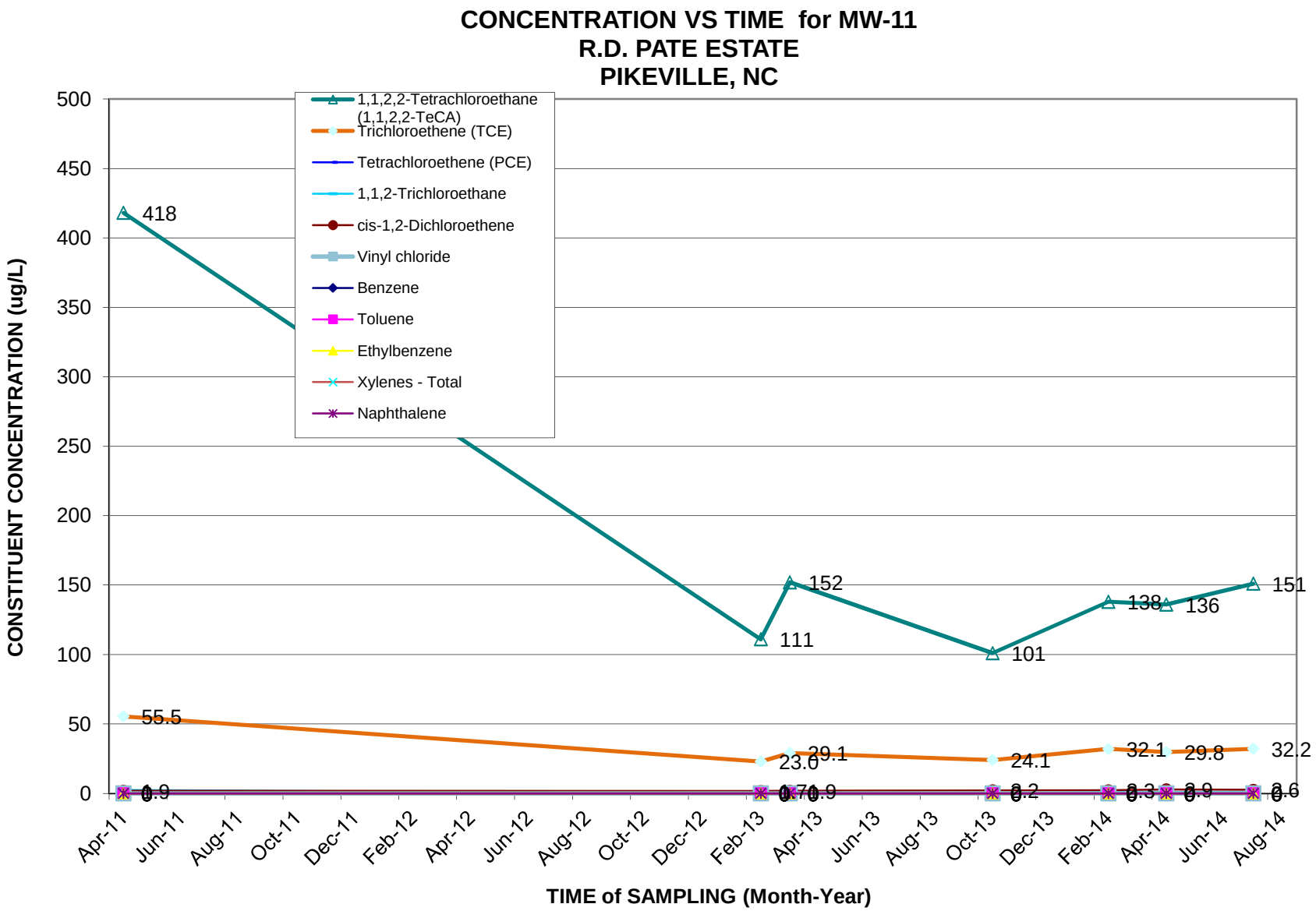

CONCENTRATION VS TIME for MW-6
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
20
18
16
14
12
10
8
6
4
2
0
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
4.47
14.8
7.1
11.6
16.3
10.3
17.8
11.1
2.14
3.1
1.8
2.6
0
5.8
2.1


CONCENTRATION VS TIME for MW-7
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
41.05
21.7
0
50
45
40
35
30
25
20
15
10
5
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14


CONCENTRATION VS TIME for MW-8
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
28.9
3.7
2.2
1.3
2.6
1.6
1.1
1.1
0
30
25
20
15
10
5
0
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14


CONCENTRATION VS TIME for MW-9
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
20
18
16
14
12
10
8
6
4
2
0
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
4.8
14.3
2.5
7.3
1.9
1.6
2.1
1.3
1.4
0


CONCENTRATION VS TIME for MW-10
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
20
18
16
14
12
10
8
6
4
2
0
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
7.4
19.7
8.9
19.4
13
14.3
1.9
1.7
1.3
1.4
0


CONCENTRATION VS TIME for MW-11
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
500
450
400
350
300
250
200
150
100
50
0
418
111
152
101
138
136
151
55.5
23.0
29.1
24.1
32.1
29.8
32.2
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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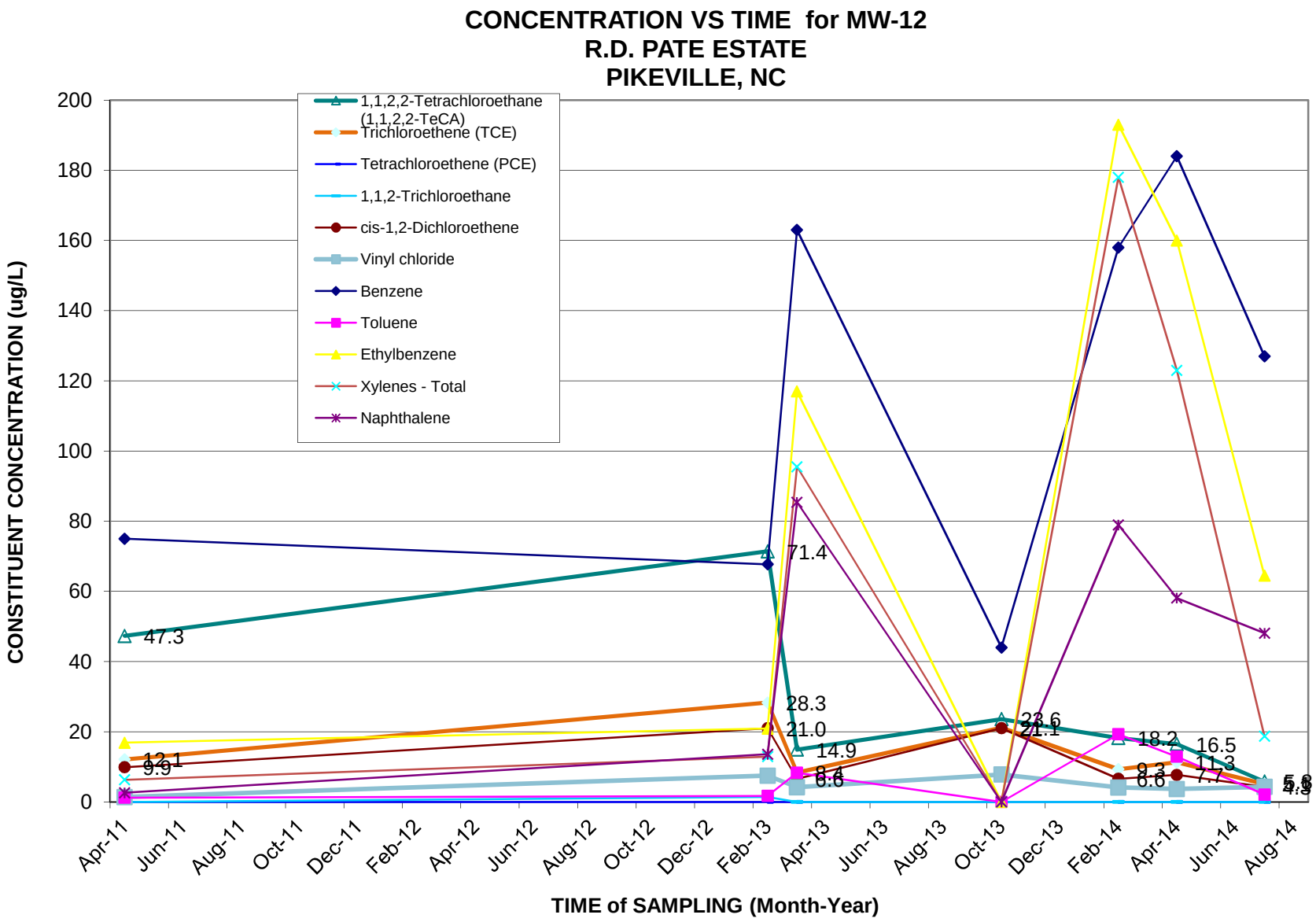
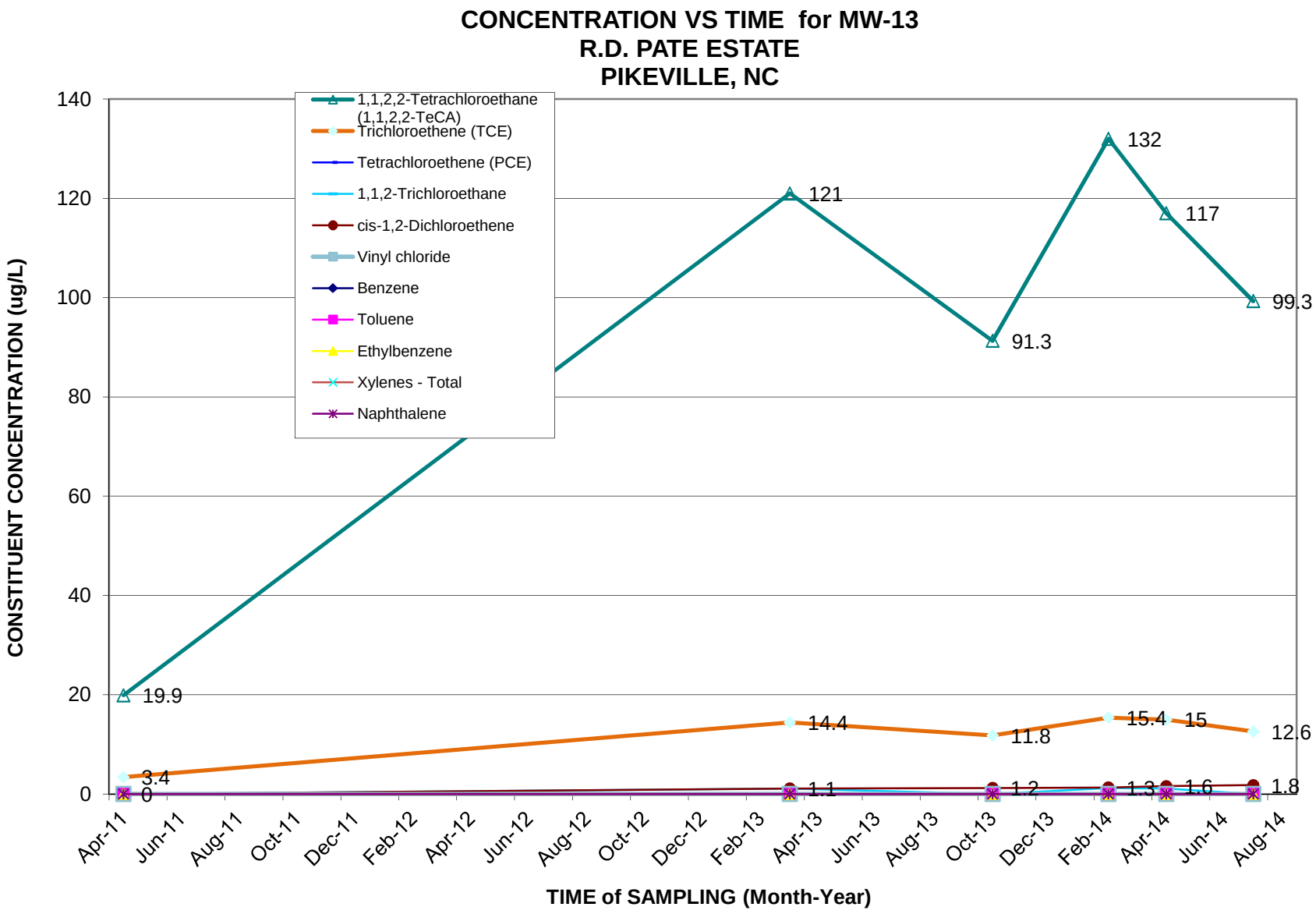
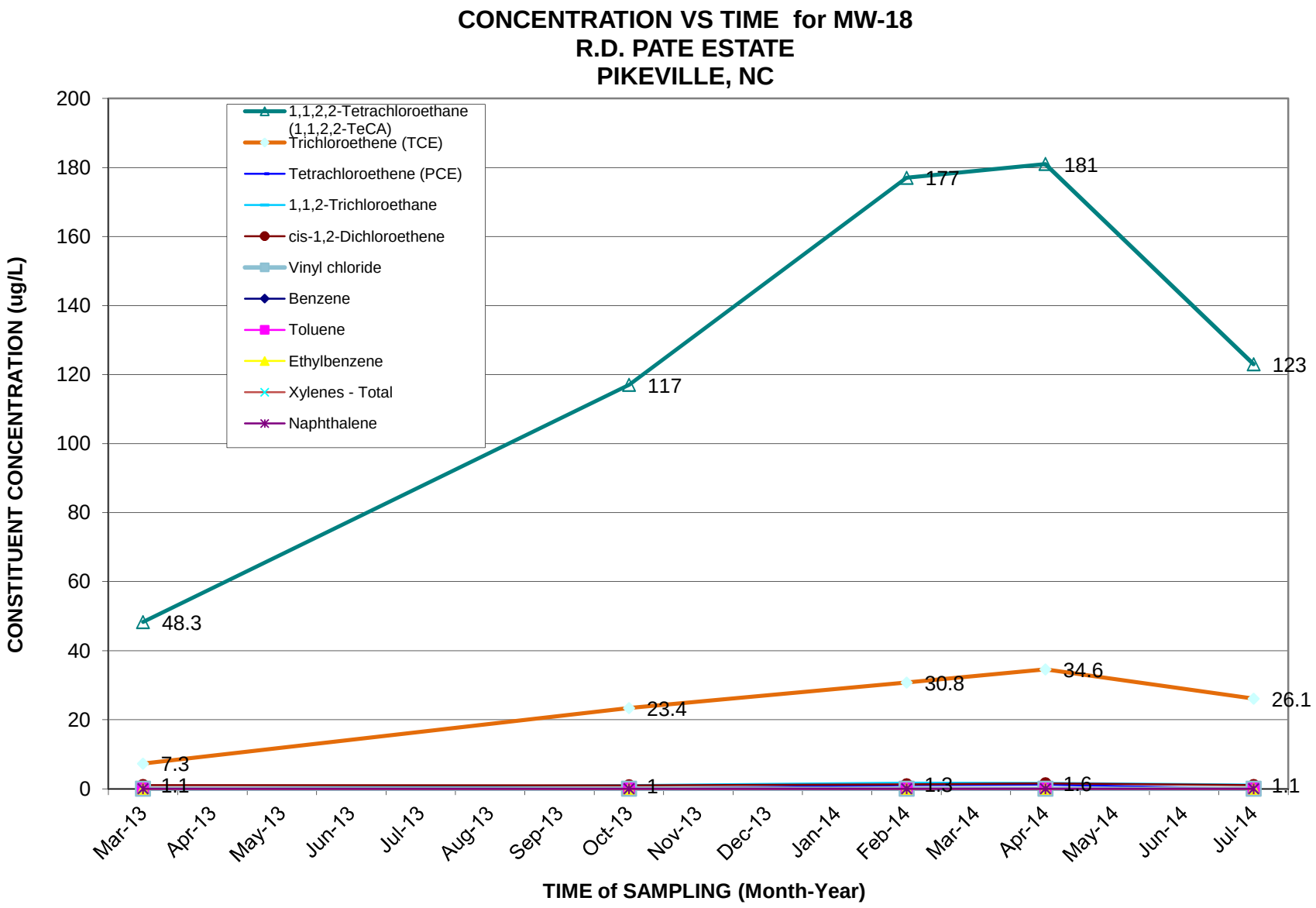
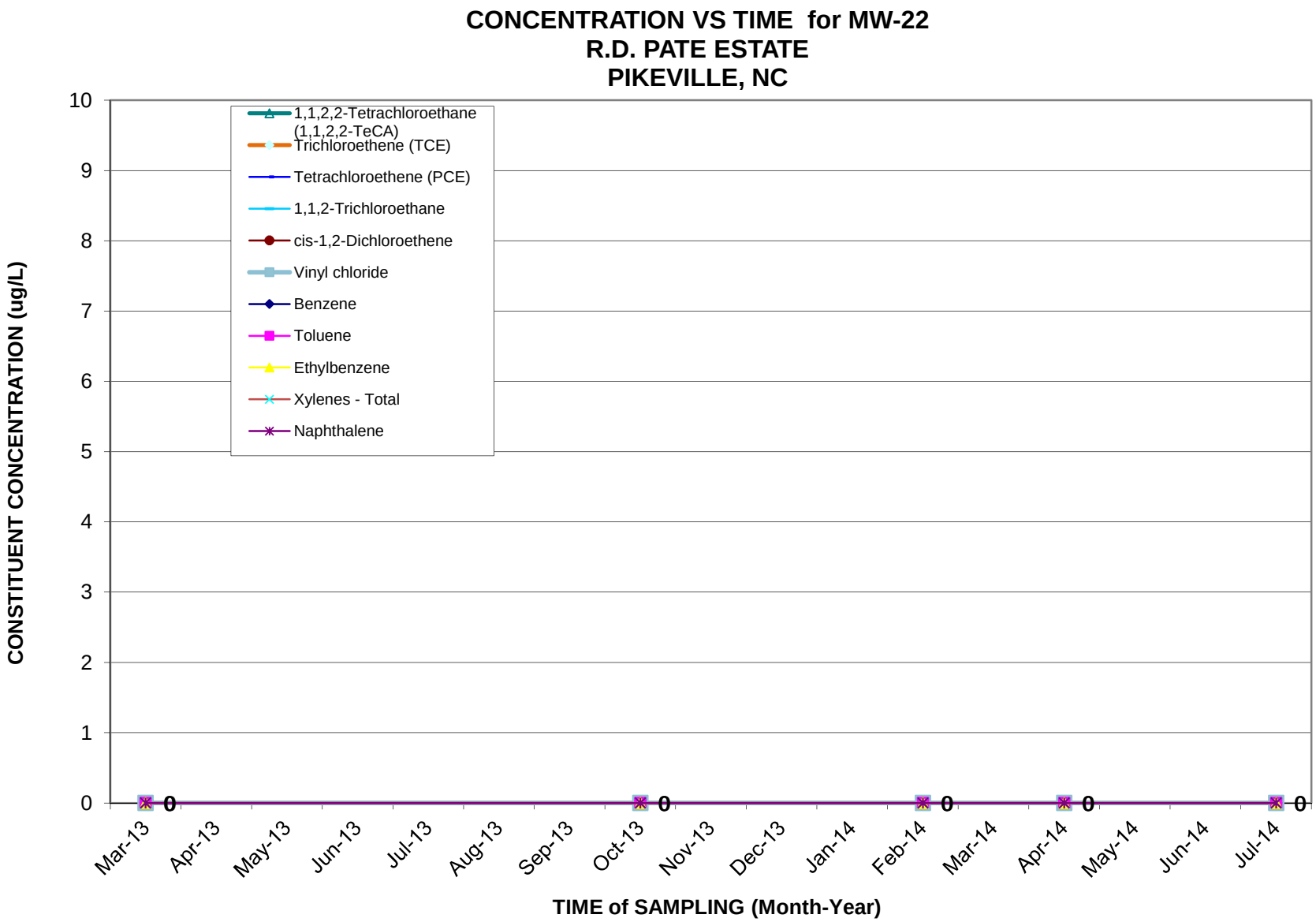
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14


CONCENTRATION VS TIME for MW-12
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
200
180
160
140
120
100
80
60
40
20
0
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
47.3
71.4
28.3
21.0
14.9
12.1
9.9
8.4
8.6
22.6
21.1
18.2
16.5
11.3
9.3
7.7
6.6


CONCENTRATION VS TIME for MW-13
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
140
120
100
80
60
40
20
0
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
19.9
121
91.3
132
117
99.3
3.4
14.4
11.8
15.4
15
12.6
0
1.1
1.2
1.3
1.6
1.8


CONCENTRATION VS TIME for MW-18
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
200
180
160
140
120
100
80
60
40
20
0
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
48.3
117
177
181
123
7.3
23.4
30.8
34.6
26.1
1.1
1
1.3
1.6
1.1


CONCENTRATION VS TIME for MW-22
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
10
9
8
7
6
5
4
3
2
1
0
1,1,2,2-Tetrachloroethane (1,1,2,2-TeCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
0
0
0
0
0
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
TIME of SAMPLING (Month-Year)

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODIES

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 08, 2014

Mr. Gary Sawyer
EnviroAssessments
9111 Monroe Rd.
Suite 175
Charlotte, NC 28270

RE: Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Dear Mr. Sawyer:
Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

The laboratory report is being resubmitted on August 8, 2014. MDLs and J values are reported.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Mr. Cliff Lundgren, EnviroAssessments
Mr. Mike McDermott, EnviroAssessments
Ms. Amanda Petoskey, EnviroAssessments

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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CERTIFICATIONS

Project:	RD Pate Estate 07-7019.13
Pace Project No.:	92211691

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92211691001	**MW-1**	Water	07/31/14 16:20	08/01/14 16:30
92211691002	**MW-2**	Water	07/31/14 12:30	08/01/14 16:30
92211691003	**MW-3**	Water	07/31/14 13:25	08/01/14 16:30
92211691004	**MW-4**	Water	07/31/14 11:38	08/01/14 16:30
92211691005	**MW-5**	Water	07/31/14 15:38	08/01/14 16:30
92211691006	**MW-6**	Water	07/31/14 14:25	08/01/14 16:30
92211691007	**MW-7**	Water	07/31/14 12:22	08/01/14 16:30
92211691008	**MW-8**	Water	07/31/14 14:52	08/01/14 16:30
92211691009	**MW-8 DUP**	Water	07/31/14 14:55	08/01/14 16:30
92211691010	**MW-9**	Water	07/31/14 15:25	08/01/14 16:30
92211691011	**MW-10**	Water	07/31/14 16:17	08/01/14 16:30
92211691012	**MW-11**	Water	07/31/14 17:50	08/01/14 16:30
92211691013	**MW-12**	Water	07/31/14 17:10	08/01/14 16:30
92211691014	**MW-13**	Water	07/31/14 16:58	08/01/14 16:30
92211691015	**MW-14**	Water	07/31/14 10:48	08/01/14 16:30
92211691016	**MW-15**	Water	07/31/14 09:15	08/01/14 16:30
92211691017	**MW-16**	Water	07/31/14 11:05	08/01/14 16:30
92211691018	**MW-17**	Water	07/31/14 10:15	08/01/14 16:30
92211691019	**MW-18**	Water	07/31/14 17:38	08/01/14 16:30
92211691020	**MW-19**	Water	07/31/14 14:07	08/01/14 16:30
92211691021	**MW-20**	Water	07/31/14 13:32	08/01/14 16:30
92211691022	**MW-21**	Water	07/31/14 10:12	08/01/14 16:30
92211691023	**MW-22**	Water	07/31/14 09:23	08/01/14 16:30
92211691024	**TB-1**	Water	07/31/14 10:52	08/01/14 16:30
92211691025	**DW-2**	Water	07/31/14 11:45	08/01/14 16:30
92211691026	**RB-1**	Water	07/31/14 11:00	08/01/14 16:30
92211691027	**FB-1**	Water	07/31/14 10:54	08/01/14 16:30
92211691028	**MW-1X**	Water	07/31/14 13:03	08/01/14 16:30

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SAMPLE ANALYTE COUNT

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92211691001	**MW-1**	EPA 8260	MCK	74	PASI-C
92211691002	**MW-2**	EPA 8260	MCK	74	PASI-C
92211691003	**MW-3**	EPA 8260	MCK	74	PASI-C
92211691004	**MW-4**	EPA 8260	MCK	74	PASI-C
92211691005	**MW-5**	EPA 8260	MCK	74	PASI-C
92211691006	**MW-6**	EPA 8260	MCK	74	PASI-C
92211691007	**MW-7**	EPA 8260	MCK	74	PASI-C
92211691008	**MW-8**	EPA 8260	MCK	74	PASI-C
92211691009	**MW-8 DUP**	EPA 8260	MCK	74	PASI-C
92211691010	**MW-9**	EPA 8260	MCK	74	PASI-C
92211691011	**MW-10**	EPA 8260	MCK	74	PASI-C
92211691012	**MW-11**	EPA 8260	MCK	74	PASI-C
92211691013	**MW-12**	EPA 8260	MCK	74	PASI-C
92211691014	**MW-13**	EPA 8260	MCK	74	PASI-C
92211691015	**MW-14**	EPA 8260	MCK	74	PASI-C
92211691016	**MW-15**	EPA 8260	MCK	74	PASI-C
92211691017	**MW-16**	EPA 8260	MCK	74	PASI-C
92211691018	**MW-17**	EPA 8260	MCK	74	PASI-C
92211691019	**MW-18**	EPA 8260	MCK	74	PASI-C
92211691020	**MW-19**	EPA 8260	MCK	74	PASI-C
92211691021	**MW-20**	EPA 8260	MCK	74	PASI-C
92211691022	**MW-21**	EPA 8260	MCK	74	PASI-C
92211691023	**MW-22**	EPA 8260	MCK	74	PASI-C
92211691024	**TB-1**	EPA 8260	MCK	74	PASI-C
92211691025	**DW-2**	EPA 8260	MCK	74	PASI-C
92211691026	**RB-1**	EPA 8260	MCK	74	PASI-C
92211691027	**FB-1**	EPA 8260	MCK	74	PASI-C
92211691028	**MW-1X**	EPA 8260	MCK	74	PASI-C

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-1 **Lab ID: 92211691001** Collected: 07/31/14 16:20 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 01:53	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 01:53	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 01:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 01:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 01:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 01:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 01:53	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 01:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 01:53	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 01:53	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 01:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 01:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 01:53	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 01:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 01:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 01:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 01:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 01:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 01:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 01:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 01:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 01:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 01:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 01:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 01:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 01:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 01:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 01:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 01:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 01:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 01:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 01:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 01:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 01:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 01:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 01:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 01:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 01:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 01:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 01:53	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 01:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 01:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 01:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 01:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 01:53	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-1 **Lab ID: 92211691001** Collected: 07/31/14 16:20 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 01:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 01:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 01:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 01:53	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	**4.6**	ug/L	1.0	0.40	1		08/07/14 01:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 01:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 01:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 01:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 01:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 01:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 01:53	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.47	1		08/07/14 01:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 01:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 01:53	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 01:53	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 01:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 01:53	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 01:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 01:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 01:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 01:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 01:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 01:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 01:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 01:53	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-2 **Lab ID: 92211691002** Collected: 07/31/14 12:30 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	40.0	4		08/07/14 02:09	67-64-1	
Acrolein	ND	ug/L	40.0	6.4	4		08/07/14 02:09	107-02-8	
Benzene	**502**	ug/L	4.0	1.0	4		08/07/14 02:09	71-43-2	
Bromobenzene	ND	ug/L	4.0	1.2	4		08/07/14 02:09	108-86-1	
Bromochloromethane	ND	ug/L	4.0	0.68	4		08/07/14 02:09	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	0.72	4		08/07/14 02:09	75-27-4	
Bromoform	ND	ug/L	4.0	1.0	4		08/07/14 02:09	75-25-2	
Bromomethane	ND	ug/L	8.0	1.2	4		08/07/14 02:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	3.8	4		08/07/14 02:09	78-93-3	
tert-Butyl Alcohol	ND	ug/L	200	14.5	4		08/07/14 02:09	75-65-0	
n-Butylbenzene	ND	ug/L	4.0	1.6	4		08/07/14 02:09	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	1.5	4		08/07/14 02:09	135-98-8	
tert-Butylbenzene	ND	ug/L	4.0	1.6	4		08/07/14 02:09	98-06-6	
Carbon disulfide	ND	ug/L	8.0	4.6	4		08/07/14 02:09	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1.0	4		08/07/14 02:09	56-23-5	
Chlorobenzene	ND	ug/L	4.0	0.92	4		08/07/14 02:09	108-90-7	
Chloroethane	ND	ug/L	4.0	2.2	4		08/07/14 02:09	75-00-3	
Chloroform	ND	ug/L	4.0	0.56	4		08/07/14 02:09	67-66-3	
Chloromethane	ND	ug/L	4.0	0.44	4		08/07/14 02:09	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	1.4	4		08/07/14 02:09	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	1.2	4		08/07/14 02:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	8.0	4		08/07/14 02:09	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	0.84	4		08/07/14 02:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	1.1	4		08/07/14 02:09	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.84	4		08/07/14 02:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	1.2	4		08/07/14 02:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	0.96	4		08/07/14 02:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	1.3	4		08/07/14 02:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	0.84	4		08/07/14 02:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	4.0	1.3	4		08/07/14 02:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	4.0	0.48	4		08/07/14 02:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	4.0	2.2	4		08/07/14 02:09	75-35-4	
cis-1,2-Dichloroethene	**10.5**	ug/L	4.0	0.76	4		08/07/14 02:09	156-59-2	
trans-1,2-Dichloroethene	**3.7J**	ug/L	4.0	2.0	4		08/07/14 02:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	1.1	4		08/07/14 02:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	1.1	4		08/07/14 02:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.52	4		08/07/14 02:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	2.0	4		08/07/14 02:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.52	4		08/07/14 02:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1.0	4		08/07/14 02:09	10061-02-6	
Diisopropyl ether	**17.4**	ug/L	4.0	0.48	4		08/07/14 02:09	108-20-3	
Ethylbenzene	**479**	ug/L	4.0	1.2	4		08/07/14 02:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2.8	4		08/07/14 02:09	87-68-3	
2-Hexanone	ND	ug/L	20.0	1.8	4		08/07/14 02:09	591-78-6	
Isopropylbenzene (Cumene)	**22.6**	ug/L	4.0	1.6	4		08/07/14 02:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	1.2	4		08/07/14 02:09	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-2 **Lab ID: 92211691002** Collected: 07/31/14 12:30 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	**9.4**	ug/L	8.0	3.9	4		08/07/14 02:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1.3	4		08/07/14 02:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	0.84	4		08/07/14 02:09	1634-04-4	
Naphthalene	**262**	ug/L	4.0	0.96	4		08/07/14 02:09	91-20-3	
n-Propylbenzene	**46.4**	ug/L	4.0	1.7	4		08/07/14 02:09	103-65-1	
Styrene	ND	ug/L	4.0	1.0	4		08/07/14 02:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	1.3	4		08/07/14 02:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	1.6	4		08/07/14 02:09	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	1.8	4		08/07/14 02:09	127-18-4	
Toluene	**23.1**	ug/L	4.0	1.0	4		08/07/14 02:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	1.3	4		08/07/14 02:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	1.4	4		08/07/14 02:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	1.9	4		08/07/14 02:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1.2	4		08/07/14 02:09	79-00-5	
Trichloroethene	ND	ug/L	4.0	1.9	4		08/07/14 02:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	0.80	4		08/07/14 02:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1.6	4		08/07/14 02:09	96-18-4	
1,2,3-Trimethylbenzene	**103**	ug/L	4.0	0.36	4		08/07/14 02:09	526-73-8	
1,2,4-Trimethylbenzene	**324**	ug/L	4.0	1.2	4		08/07/14 02:09	95-63-6	
1,3,5-Trimethylbenzene	**26.8**	ug/L	4.0	1.4	4		08/07/14 02:09	108-67-8	
Vinyl acetate	ND	ug/L	8.0	1.4	4		08/07/14 02:09	108-05-4	
Vinyl chloride	ND	ug/L	4.0	2.5	4		08/07/14 02:09	75-01-4	
Xylene (Total)	**320**	ug/L	8.0	2.6	4		08/07/14 02:09	1330-20-7	
m&p-Xylene	**309**	ug/L	8.0	2.6	4		08/07/14 02:09	179601-23-1	
o-Xylene	**11.0**	ug/L	4.0	0.92	4		08/07/14 02:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		4		08/07/14 02:09	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		4		08/07/14 02:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130		4		08/07/14 02:09	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-3 **Lab ID: 92211691003** Collected: 07/31/14 13:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**104**	ug/L	25.0	10.0	1		08/07/14 02:25	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 02:25	107-02-8	
Benzene	**5.1**	ug/L	1.0	0.25	1		08/07/14 02:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 02:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 02:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 02:25	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 02:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 02:25	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 02:25	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 02:25	104-51-8	
sec-Butylbenzene	**0.53J**	ug/L	1.0	0.38	1		08/07/14 02:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 02:25	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 02:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 02:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 02:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 02:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 02:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 02:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 02:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 02:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 02:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 02:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 02:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 02:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:25	106-46-7	
Dichlorodifluoromethane	**0.68J**	ug/L	1.0	0.21	1		08/07/14 02:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 02:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 02:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 02:25	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.19	1		08/07/14 02:25	156-59-2	
trans-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.49	1		08/07/14 02:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 02:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 02:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 02:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 02:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 02:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 02:25	10061-02-6	
Diisopropyl ether	**10.9**	ug/L	1.0	0.12	1		08/07/14 02:25	108-20-3	
Ethylbenzene	**0.47J**	ug/L	1.0	0.30	1		08/07/14 02:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 02:25	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 02:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 02:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:25	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-3 **Lab ID: 92211691003** Collected: 07/31/14 13:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 02:25	108-10-1	
Methyl-tert-butyl ether	**0.24J**	ug/L	1.0	0.21	1		08/07/14 02:25	1634-04-4	
Naphthalene	**5.2**	ug/L	1.0	0.24	1		08/07/14 02:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 02:25	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 02:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 02:25	630-20-6	
1,1,2,2-Tetrachloroethane	**1.1**	ug/L	1.0	0.40	1		08/07/14 02:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 02:25	127-18-4	
Toluene	**0.39J**	ug/L	1.0	0.26	1		08/07/14 02:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 02:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 02:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 02:25	79-00-5	
Trichloroethene	**0.74J**	ug/L	1.0	0.47	1		08/07/14 02:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 02:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 02:25	96-18-4	
1,2,3-Trimethylbenzene	**4.3**	ug/L	1.0	0.090	1		08/07/14 02:25	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 02:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 02:25	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 02:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 02:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 02:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 02:25	179601-23-1	
o-Xylene	**0.27J**	ug/L	1.0	0.23	1		08/07/14 02:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 02:25	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 02:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 02:25	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-4 **Lab ID: 92211691004** Collected: 07/31/14 11:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 02:40	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 02:40	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 02:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 02:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 02:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 02:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 02:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 02:40	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 02:40	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 02:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 02:40	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 02:40	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 02:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 02:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 02:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 02:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 02:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 02:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 02:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 02:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 02:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 02:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 02:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 02:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 02:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 02:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 02:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 02:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 02:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 02:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 02:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 02:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 02:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 02:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 02:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 02:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 02:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 02:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 02:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 02:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:40	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-4 **Lab ID: 92211691004** Collected: 07/31/14 11:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 02:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 02:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 02:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 02:40	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 02:40	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 02:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 02:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 02:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 02:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 02:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 02:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 02:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 02:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 02:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 02:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 02:40	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 02:40	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 02:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 02:40	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 02:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 02:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 02:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 02:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 02:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 02:40	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 02:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/07/14 02:40	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-5 **Lab ID: 92211691005** Collected: 07/31/14 15:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 02:56	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 02:56	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 02:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 02:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 02:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 02:56	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 02:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 02:56	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 02:56	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 02:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 02:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 02:56	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 02:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 02:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 02:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 02:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 02:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 02:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 02:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 02:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 02:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 02:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 02:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 02:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 02:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 02:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 02:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 02:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 02:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 02:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 02:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 02:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 02:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 02:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 02:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 02:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 02:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 02:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 02:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 02:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 02:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 02:56	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-5 **Lab ID: 92211691005** Collected: 07/31/14 15:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 02:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 02:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 02:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 02:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 02:56	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 02:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 02:56	630-20-6	
1,1,2,2-Tetrachloroethane	**1.4**	ug/L	1.0	0.40	1		08/07/14 02:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 02:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 02:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 02:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 02:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 02:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 02:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 02:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 02:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 02:56	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 02:56	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 02:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 02:56	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 02:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 02:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 02:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 02:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 02:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 02:56	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 02:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 02:56	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-6 **Lab ID: 92211691006** Collected: 07/31/14 14:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 03:12	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 03:12	107-02-8	
Benzene	**0.68J**	ug/L	1.0	0.25	1		08/07/14 03:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 03:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 03:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 03:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 03:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 03:12	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 03:12	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 03:12	104-51-8	
sec-Butylbenzene	**1.1**	ug/L	1.0	0.38	1		08/07/14 03:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 03:12	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 03:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 03:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 03:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 03:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 03:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 03:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 03:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 03:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 03:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 03:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 03:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 03:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 03:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 03:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 03:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 03:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 03:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 03:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 03:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 03:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 03:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 03:12	10061-02-6	
Diisopropyl ether	**7.3**	ug/L	1.0	0.12	1		08/07/14 03:12	108-20-3	
Ethylbenzene	**2.4**	ug/L	1.0	0.30	1		08/07/14 03:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 03:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 03:12	591-78-6	
Isopropylbenzene (Cumene)	**1.2**	ug/L	1.0	0.40	1		08/07/14 03:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:12	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-6 **Lab ID: 92211691006** Collected: 07/31/14 14:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 03:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 03:12	108-10-1	
Methyl-tert-butyl ether	**0.38J**	ug/L	1.0	0.21	1		08/07/14 03:12	1634-04-4	
Naphthalene	**11.1**	ug/L	1.0	0.24	1		08/07/14 03:12	91-20-3	
n-Propylbenzene	**0.46J**	ug/L	1.0	0.42	1		08/07/14 03:12	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 03:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 03:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 03:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 03:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 03:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 03:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 03:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 03:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 03:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 03:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 03:12	96-18-4	
1,2,3-Trimethylbenzene	**6.3**	ug/L	1.0	0.090	1		08/07/14 03:12	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 03:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 03:12	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 03:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 03:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 03:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 03:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 03:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 03:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 03:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 03:12	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-7 **Lab ID: 92211691007** Collected: 07/31/14 12:22 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 03:27	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 03:27	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 03:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 03:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 03:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 03:27	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 03:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 03:27	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 03:27	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 03:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 03:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 03:27	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 03:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 03:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 03:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 03:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 03:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 03:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 03:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 03:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 03:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 03:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 03:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 03:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 03:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 03:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 03:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 03:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 03:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 03:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 03:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 03:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 03:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 03:27	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 03:27	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 03:27	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 03:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 03:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:27	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-7 **Lab ID: 92211691007** Collected: 07/31/14 12:22 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 03:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 03:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 03:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 03:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 03:27	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 03:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 03:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 03:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 03:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 03:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 03:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 03:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 03:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 03:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 03:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 03:27	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 03:27	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 03:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 03:27	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 03:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 03:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 03:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 03:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 03:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/07/14 03:27	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 03:27	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 03:27	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-8 **Lab ID: 92211691008** Collected: 07/31/14 14:52 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 03:43	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 03:43	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 03:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 03:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 03:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 03:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 03:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 03:43	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 03:43	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 03:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 03:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 03:43	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 03:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 03:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 03:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 03:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 03:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 03:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 03:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 03:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 03:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 03:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 03:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 03:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 03:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 03:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 03:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 03:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 03:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 03:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 03:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 03:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 03:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 03:43	10061-02-6	
Diisopropyl ether	**0.58J**	ug/L	1.0	0.12	1		08/07/14 03:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 03:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 03:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 03:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:43	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-8 **Lab ID: 92211691008** Collected: 07/31/14 14:52 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 03:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 03:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 03:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 03:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 03:43	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 03:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 03:43	630-20-6	
1,1,2,2-Tetrachloroethane	**1.1**	ug/L	1.0	0.40	1		08/07/14 03:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 03:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 03:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 03:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 03:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 03:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 03:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 03:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 03:43	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 03:43	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 03:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 03:43	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 03:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 03:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 03:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 03:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/07/14 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 03:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 03:43	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-8 DUP **Lab ID: 92211691009** Collected: 07/31/14 14:55 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 03:59	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 03:59	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 03:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 03:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 03:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 03:59	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 03:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 03:59	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 03:59	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 03:59	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 03:59	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 03:59	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 03:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 03:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 03:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 03:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 03:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 03:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 03:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 03:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 03:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 03:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 03:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 03:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 03:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 03:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 03:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 03:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 03:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 03:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 03:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 03:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 03:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 03:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 03:59	10061-02-6	
Diisopropyl ether	**0.59J**	ug/L	1.0	0.12	1		08/07/14 03:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 03:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 03:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 03:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 03:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 03:59	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-8 DUP **Lab ID: 92211691009** Collected: 07/31/14 14:55 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 03:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 03:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 03:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 03:59	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 03:59	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 03:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 03:59	630-20-6	
1,1,2,2-Tetrachloroethane	**1.1**	ug/L	1.0	0.40	1		08/07/14 03:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 03:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 03:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 03:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 03:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 03:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 03:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 03:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 03:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 03:59	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 03:59	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 03:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 03:59	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 03:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 03:59	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 03:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 03:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 03:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/07/14 03:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 03:59	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/07/14 03:59	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-9 **Lab ID: 92211691010** Collected: 07/31/14 15:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 04:14	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 04:14	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 04:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 04:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 04:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 04:14	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 04:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 04:14	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 04:14	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 04:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 04:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 04:14	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 04:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 04:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 04:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 04:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 04:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 04:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 04:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 04:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 04:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 04:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 04:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 04:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 04:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 04:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 04:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 04:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 04:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 04:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 04:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 04:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 04:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 04:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 04:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 04:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 04:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 04:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:14	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-9 **Lab ID: 92211691010** Collected: 07/31/14 15:25 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 04:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 04:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 04:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 04:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 04:14	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 04:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 04:14	630-20-6	
1,1,2,2-Tetrachloroethane	**2.1**	ug/L	1.0	0.40	1		08/07/14 04:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 04:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 04:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 04:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 04:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 04:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 04:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 04:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 04:14	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 04:14	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 04:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 04:14	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 04:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 04:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 04:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 04:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 04:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/07/14 04:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 04:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 04:14	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-10 **Lab ID: 92211691011** Collected: 07/31/14 16:17 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 04:30	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 04:30	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 04:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 04:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 04:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 04:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 04:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 04:30	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 04:30	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 04:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 04:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 04:30	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 04:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 04:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 04:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 04:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 04:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 04:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 04:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 04:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 04:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 04:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 04:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 04:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 04:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 04:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 04:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 04:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 04:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 04:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 04:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 04:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 04:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:30	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-10 **Lab ID: 92211691011** Collected: 07/31/14 16:17 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 04:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 04:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 04:30	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	**14.3**	ug/L	1.0	0.40	1		08/07/14 04:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 04:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 04:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 04:30	79-00-5	
Trichloroethene	**1.4**	ug/L	1.0	0.47	1		08/07/14 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 04:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 04:30	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 04:30	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 04:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 04:30	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 04:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 04:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 04:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 04:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 04:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/07/14 04:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 04:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 04:30	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-11 **Lab ID: 92211691012** Collected: 07/31/14 17:50 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 04:46	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 04:46	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 04:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 04:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 04:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 04:46	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 04:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 04:46	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 04:46	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 04:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 04:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 04:46	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 04:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 04:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 04:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 04:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 04:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 04:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 04:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 04:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 04:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 04:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 04:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 04:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 04:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 04:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 04:46	75-35-4	
cis-1,2-Dichloroethene	**2.6**	ug/L	1.0	0.19	1		08/07/14 04:46	156-59-2	
trans-1,2-Dichloroethene	**0.50J**	ug/L	1.0	0.49	1		08/07/14 04:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 04:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 04:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 04:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 04:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 04:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 04:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 04:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 04:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 04:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 04:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 04:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 04:46	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-11 **Lab ID: 92211691012** Collected: 07/31/14 17:50 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 04:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 04:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 04:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 04:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 04:46	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 04:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 04:46	630-20-6	
1,1,2,2-Tetrachloroethane	**151**	ug/L	1.0	0.40	1		08/07/14 04:46	79-34-5	
Tetrachloroethene	**0.67J**	ug/L	1.0	0.46	1		08/07/14 04:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 04:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 04:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 04:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 04:46	71-55-6	
1,1,2-Trichloroethane	**1.1**	ug/L	1.0	0.29	1		08/07/14 04:46	79-00-5	
Trichloroethene	**32.2**	ug/L	1.0	0.47	1		08/07/14 04:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 04:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 04:46	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 04:46	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 04:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 04:46	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 04:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 04:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 04:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 04:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 04:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/07/14 04:46	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 04:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 04:46	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-12 **Lab ID: 92211691013** Collected: 07/31/14 17:10 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 05:01	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 05:01	107-02-8	
Benzene	**127**	ug/L	1.0	0.25	1		08/07/14 05:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 05:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 05:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 05:01	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 05:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 05:01	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 05:01	75-65-0	
n-Butylbenzene	**1.8**	ug/L	1.0	0.41	1		08/07/14 05:01	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 05:01	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 05:01	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 05:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 05:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 05:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 05:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 05:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 05:01	74-87-3	
2-Chlorotoluene	**5.7**	ug/L	1.0	0.35	1		08/07/14 05:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 05:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 05:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 05:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 05:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 05:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 05:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 05:01	75-35-4	
cis-1,2-Dichloroethene	**4.3**	ug/L	1.0	0.19	1		08/07/14 05:01	156-59-2	
trans-1,2-Dichloroethene	**4.2**	ug/L	1.0	0.49	1		08/07/14 05:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 05:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 05:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 05:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 05:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 05:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 05:01	10061-02-6	
Diisopropyl ether	**4.0**	ug/L	1.0	0.12	1		08/07/14 05:01	108-20-3	
Ethylbenzene	**64.5**	ug/L	1.0	0.30	1		08/07/14 05:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 05:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 05:01	591-78-6	
Isopropylbenzene (Cumene)	**5.7**	ug/L	1.0	0.40	1		08/07/14 05:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:01	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-12 **Lab ID: 92211691013** Collected: 07/31/14 17:10 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 05:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 05:01	108-10-1	
Methyl-tert-butyl ether	**0.22J**	ug/L	1.0	0.21	1		08/07/14 05:01	1634-04-4	
Naphthalene	**48.1**	ug/L	1.0	0.24	1		08/07/14 05:01	91-20-3	
n-Propylbenzene	**12.1**	ug/L	1.0	0.42	1		08/07/14 05:01	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 05:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 05:01	630-20-6	
1,1,2,2-Tetrachloroethane	**5.8**	ug/L	1.0	0.40	1		08/07/14 05:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 05:01	127-18-4	
Toluene	**2.1**	ug/L	1.0	0.26	1		08/07/14 05:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 05:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 05:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 05:01	79-00-5	
Trichloroethene	**5.1**	ug/L	1.0	0.47	1		08/07/14 05:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 05:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 05:01	96-18-4	
1,2,3-Trimethylbenzene	**3.9**	ug/L	1.0	0.090	1		08/07/14 05:01	526-73-8	
1,2,4-Trimethylbenzene	**6.1**	ug/L	1.0	0.31	1		08/07/14 05:01	95-63-6	
1,3,5-Trimethylbenzene	**2.7**	ug/L	1.0	0.36	1		08/07/14 05:01	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 05:01	108-05-4	
Vinyl chloride	**4.3**	ug/L	1.0	0.62	1		08/07/14 05:01	75-01-4	
Xylene (Total)	**18.7**	ug/L	2.0	0.66	1		08/07/14 05:01	1330-20-7	
m&p-Xylene	**12.2**	ug/L	2.0	0.66	1		08/07/14 05:01	179601-23-1	
o-Xylene	**6.5**	ug/L	1.0	0.23	1		08/07/14 05:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/07/14 05:01	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 05:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 05:01	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-13 **Lab ID: 92211691014** Collected: 07/31/14 16:58 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 05:17	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 05:17	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 05:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 05:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 05:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 05:17	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 05:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 05:17	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 05:17	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 05:17	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 05:17	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 05:17	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 05:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 05:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 05:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 05:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 05:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 05:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 05:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 05:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 05:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 05:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 05:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 05:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 05:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 05:17	75-35-4	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	0.19	1		08/07/14 05:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 05:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 05:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 05:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 05:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 05:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 05:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 05:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 05:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 05:17	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 05:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 05:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:17	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-13 **Lab ID: 92211691014** Collected: 07/31/14 16:58 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 05:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 05:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 05:17	1634-04-4	
Naphthalene	**0.86J**	ug/L	1.0	0.24	1		08/07/14 05:17	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 05:17	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 05:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 05:17	630-20-6	
1,1,2,2-Tetrachloroethane	**99.3**	ug/L	1.0	0.40	1		08/07/14 05:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 05:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 05:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 05:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 05:17	71-55-6	
1,1,2-Trichloroethane	**0.89J**	ug/L	1.0	0.29	1		08/07/14 05:17	79-00-5	
Trichloroethene	**12.6**	ug/L	1.0	0.47	1		08/07/14 05:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 05:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 05:17	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 05:17	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 05:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 05:17	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 05:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 05:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 05:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 05:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 05:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 05:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 05:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 05:17	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-14 **Lab ID: 92211691015** Collected: 07/31/14 10:48 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 05:33	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 05:33	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 05:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 05:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 05:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 05:33	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 05:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 05:33	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 05:33	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 05:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 05:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 05:33	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 05:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 05:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 05:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 05:33	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 05:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 05:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 05:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 05:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 05:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 05:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 05:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 05:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 05:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 05:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 05:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 05:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 05:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 05:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 05:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 05:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 05:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 05:33	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 05:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 05:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 05:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 05:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:33	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-14 **Lab ID: 92211691015** Collected: 07/31/14 10:48 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 05:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 05:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 05:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 05:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 05:33	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 05:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 05:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 05:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 05:33	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 05:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 05:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 05:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 05:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 05:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 05:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 05:33	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 05:33	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 05:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 05:33	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 05:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 05:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 05:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 05:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 05:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/07/14 05:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 05:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/07/14 05:33	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-15 **Lab ID: 92211691016** Collected: 07/31/14 09:15 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 05:48	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 05:48	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 05:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 05:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 05:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 05:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 05:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 05:48	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 05:48	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 05:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 05:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 05:48	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 05:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 05:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 05:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 05:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 05:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 05:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 05:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 05:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 05:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 05:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 05:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 05:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 05:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 05:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 05:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 05:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 05:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 05:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 05:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 05:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 05:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 05:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 05:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 05:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 05:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 05:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 05:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 05:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 05:48	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-15 **Lab ID: 92211691016** Collected: 07/31/14 09:15 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 05:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 05:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 05:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 05:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 05:48	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 05:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 05:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 05:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 05:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 05:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 05:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 05:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 05:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 05:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 05:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 05:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 05:48	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 05:48	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 05:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 05:48	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 05:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 05:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 05:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 05:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 05:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 05:48	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 05:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/07/14 05:48	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-16 **Lab ID: 92211691017** Collected: 07/31/14 11:05 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 06:04	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 06:04	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 06:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 06:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 06:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 06:04	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 06:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 06:04	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 06:04	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 06:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 06:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 06:04	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 06:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 06:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 06:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 06:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 06:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 06:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 06:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 06:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 06:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 06:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 06:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 06:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 06:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 06:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 06:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 06:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 06:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 06:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 06:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 06:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 06:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 06:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 06:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 06:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 06:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 06:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:04	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-16 **Lab ID: 92211691017** Collected: 07/31/14 11:05 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 06:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 06:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 06:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 06:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 06:04	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 06:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 06:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 06:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 06:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 06:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 06:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 06:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 06:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 06:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 06:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 06:04	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 06:04	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 06:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 06:04	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 06:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 06:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 06:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 06:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 06:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 06:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/07/14 06:04	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-17 **Lab ID: 92211691018** Collected: 07/31/14 10:15 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 06:20	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 06:20	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 06:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 06:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 06:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 06:20	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 06:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 06:20	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 06:20	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 06:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 06:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 06:20	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 06:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 06:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 06:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 06:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 06:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 06:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 06:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 06:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 06:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 06:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 06:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 06:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 06:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 06:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 06:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 06:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 06:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 06:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 06:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 06:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 06:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 06:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 06:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 06:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 06:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 06:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:20	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-17 **Lab ID: 92211691018** Collected: 07/31/14 10:15 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 06:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 06:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 06:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 06:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 06:20	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 06:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 06:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 06:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 06:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 06:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 06:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 06:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 06:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 06:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 06:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 06:20	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 06:20	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 06:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 06:20	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 06:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 06:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 06:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 06:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 06:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 06:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 06:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 06:20	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-18 **Lab ID: 92211691019** Collected: 07/31/14 17:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 06:36	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 06:36	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 06:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 06:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 06:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 06:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 06:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 06:36	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 06:36	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 06:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 06:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 06:36	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 06:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 06:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 06:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 06:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 06:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 06:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 06:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 06:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 06:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 06:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 06:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 06:36	75-34-3	
1,2-Dichloroethane	**0.20J**	ug/L	1.0	0.12	1		08/07/14 06:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 06:36	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.19	1		08/07/14 06:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 06:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 06:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 06:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 06:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 06:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 06:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 06:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 06:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 06:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 06:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 06:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:36	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-18 **Lab ID: 92211691019** Collected: 07/31/14 17:38 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 06:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 06:36	108-10-1	
Methyl-tert-butyl ether	**0.34J**	ug/L	1.0	0.21	1		08/07/14 06:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 06:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 06:36	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 06:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 06:36	630-20-6	
1,1,2,2-Tetrachloroethane	**123**	ug/L	1.0	0.40	1		08/07/14 06:36	79-34-5	
Tetrachloroethene	**0.89J**	ug/L	1.0	0.46	1		08/07/14 06:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 06:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 06:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 06:36	71-55-6	
1,1,2-Trichloroethane	**1.2**	ug/L	1.0	0.29	1		08/07/14 06:36	79-00-5	
Trichloroethene	**26.1**	ug/L	1.0	0.47	1		08/07/14 06:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 06:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 06:36	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 06:36	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 06:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 06:36	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 06:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 06:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 06:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 06:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 06:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 06:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 06:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/07/14 06:36	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-19 **Lab ID: 92211691020** Collected: 07/31/14 14:07 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 06:51	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 06:51	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 06:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 06:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 06:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 06:51	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 06:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 06:51	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 06:51	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 06:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 06:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 06:51	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 06:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 06:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 06:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 06:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 06:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 06:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 06:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 06:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 06:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 06:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 06:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 06:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 06:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 06:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 06:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 06:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 06:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 06:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 06:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 06:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 06:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 06:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 06:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 06:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 06:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 06:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 06:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 06:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 06:51	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-19 **Lab ID: 92211691020** Collected: 07/31/14 14:07 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 06:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 06:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 06:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 06:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 06:51	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 06:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 06:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 06:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 06:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 06:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 06:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 06:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 06:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 06:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 06:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 06:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 06:51	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 06:51	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 06:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 06:51	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 06:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 06:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 06:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 06:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 06:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 06:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 06:51	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 06:51	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-20 **Lab ID: 92211691021** Collected: 07/31/14 13:32 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	40.0	4		08/07/14 07:07	67-64-1	
Acrolein	ND	ug/L	40.0	6.4	4		08/07/14 07:07	107-02-8	
Benzene	**1.2J**	ug/L	4.0	1.0	4		08/07/14 07:07	71-43-2	
Bromobenzene	ND	ug/L	4.0	1.2	4		08/07/14 07:07	108-86-1	
Bromochloromethane	ND	ug/L	4.0	0.68	4		08/07/14 07:07	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	0.72	4		08/07/14 07:07	75-27-4	
Bromoform	ND	ug/L	4.0	1.0	4		08/07/14 07:07	75-25-2	
Bromomethane	ND	ug/L	8.0	1.2	4		08/07/14 07:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	3.8	4		08/07/14 07:07	78-93-3	
tert-Butyl Alcohol	ND	ug/L	200	14.5	4		08/07/14 07:07	75-65-0	
n-Butylbenzene	**6.0**	ug/L	4.0	1.6	4		08/07/14 07:07	104-51-8	
sec-Butylbenzene	**10.1**	ug/L	4.0	1.5	4		08/07/14 07:07	135-98-8	
tert-Butylbenzene	ND	ug/L	4.0	1.6	4		08/07/14 07:07	98-06-6	
Carbon disulfide	ND	ug/L	8.0	4.6	4		08/07/14 07:07	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1.0	4		08/07/14 07:07	56-23-5	
Chlorobenzene	ND	ug/L	4.0	0.92	4		08/07/14 07:07	108-90-7	
Chloroethane	ND	ug/L	4.0	2.2	4		08/07/14 07:07	75-00-3	
Chloroform	ND	ug/L	4.0	0.56	4		08/07/14 07:07	67-66-3	
Chloromethane	ND	ug/L	4.0	0.44	4		08/07/14 07:07	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	1.4	4		08/07/14 07:07	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	1.2	4		08/07/14 07:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	8.0	4		08/07/14 07:07	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	0.84	4		08/07/14 07:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	1.1	4		08/07/14 07:07	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.84	4		08/07/14 07:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	1.2	4		08/07/14 07:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	0.96	4		08/07/14 07:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	1.3	4		08/07/14 07:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	0.84	4		08/07/14 07:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	4.0	1.3	4		08/07/14 07:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	4.0	0.48	4		08/07/14 07:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	4.0	2.2	4		08/07/14 07:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	4.0	0.76	4		08/07/14 07:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	2.0	4		08/07/14 07:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	1.1	4		08/07/14 07:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	1.1	4		08/07/14 07:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.52	4		08/07/14 07:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	2.0	4		08/07/14 07:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.52	4		08/07/14 07:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1.0	4		08/07/14 07:07	10061-02-6	
Diisopropyl ether	ND	ug/L	4.0	0.48	4		08/07/14 07:07	108-20-3	
Ethylbenzene	**5.5**	ug/L	4.0	1.2	4		08/07/14 07:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2.8	4		08/07/14 07:07	87-68-3	
2-Hexanone	ND	ug/L	20.0	1.8	4		08/07/14 07:07	591-78-6	
Isopropylbenzene (Cumene)	**19.8**	ug/L	4.0	1.6	4		08/07/14 07:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	1.2	4		08/07/14 07:07	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-20 **Lab ID: 92211691021** Collected: 07/31/14 13:32 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	**9.0**	ug/L	8.0	3.9	4		08/07/14 07:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1.3	4		08/07/14 07:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	0.84	4		08/07/14 07:07	1634-04-4	
Naphthalene	**432**	ug/L	4.0	0.96	4		08/07/14 07:07	91-20-3	
n-Propylbenzene	**27.5**	ug/L	4.0	1.7	4		08/07/14 07:07	103-65-1	
Styrene	ND	ug/L	4.0	1.0	4		08/07/14 07:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	1.3	4		08/07/14 07:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	1.6	4		08/07/14 07:07	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	1.8	4		08/07/14 07:07	127-18-4	
Toluene	**1.1J**	ug/L	4.0	1.0	4		08/07/14 07:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	1.3	4		08/07/14 07:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	1.4	4		08/07/14 07:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	1.9	4		08/07/14 07:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1.2	4		08/07/14 07:07	79-00-5	
Trichloroethene	ND	ug/L	4.0	1.9	4		08/07/14 07:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	0.80	4		08/07/14 07:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1.6	4		08/07/14 07:07	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	4.0	0.36	4		08/07/14 07:07	526-73-8	
1,2,4-Trimethylbenzene	**33.7**	ug/L	4.0	1.2	4		08/07/14 07:07	95-63-6	
1,3,5-Trimethylbenzene	**7.4**	ug/L	4.0	1.4	4		08/07/14 07:07	108-67-8	
Vinyl acetate	ND	ug/L	8.0	1.4	4		08/07/14 07:07	108-05-4	
Vinyl chloride	ND	ug/L	4.0	2.5	4		08/07/14 07:07	75-01-4	
Xylene (Total)	ND	ug/L	8.0	2.6	4		08/07/14 07:07	1330-20-7	
m&p-Xylene	**3.8J**	ug/L	8.0	2.6	4		08/07/14 07:07	179601-23-1	
o-Xylene	ND	ug/L	4.0	0.92	4		08/07/14 07:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		4		08/07/14 07:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		4		08/07/14 07:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		4		08/07/14 07:07	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-21 **Lab ID: 92211691022** Collected: 07/31/14 10:12 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 11:51	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 11:51	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 11:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 11:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 11:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 11:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 11:51	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 11:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 11:51	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 11:51	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 11:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 11:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 11:51	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 11:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 11:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 11:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 11:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 11:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 11:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 11:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 11:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 11:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 11:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 11:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 11:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 11:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 11:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 11:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 11:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 11:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 11:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 11:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 11:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 11:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 11:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 11:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 11:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 11:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 11:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 11:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 11:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 11:51	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-21 **Lab ID: 92211691022** Collected: 07/31/14 10:12 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 11:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 11:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 11:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 11:51	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 11:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 11:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 11:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 11:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 11:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 11:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 11:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 11:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 11:51	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 11:51	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 11:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 11:51	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 11:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 11:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 11:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 11:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 11:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 11:51	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 11:51	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 11:51	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-22 **Lab ID: 92211691023** Collected: 07/31/14 09:23 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 07:38	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 07:38	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 07:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 07:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 07:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 07:38	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 07:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 07:38	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 07:38	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 07:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 07:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 07:38	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 07:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 07:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 07:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 07:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 07:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 07:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 07:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 07:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 07:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 07:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 07:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 07:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 07:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 07:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 07:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 07:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 07:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 07:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 07:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 07:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 07:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 07:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 07:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 07:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 07:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 07:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 07:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 07:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 07:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 07:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 07:38	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-22 **Lab ID: 92211691023** Collected: 07/31/14 09:23 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 07:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 07:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 07:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 07:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 07:38	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 07:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 07:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 07:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 07:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 07:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 07:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 07:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 07:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 07:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 07:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 07:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 07:38	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 07:38	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 07:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 07:38	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 07:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 07:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 07:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 07:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 07:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 07:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 07:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 07:38	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: TB-1 **Lab ID: 92211691024** Collected: 07/31/14 10:52 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 07:54	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 07:54	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 07:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 07:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 07:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 07:54	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 07:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 07:54	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 07:54	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 07:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 07:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 07:54	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 07:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 07:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 07:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 07:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 07:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 07:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 07:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 07:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 07:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 07:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 07:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 07:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 07:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 07:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 07:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 07:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 07:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 07:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 07:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 07:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 07:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 07:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 07:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 07:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 07:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 07:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 07:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 07:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 07:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 07:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 07:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 07:54	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: TB-1 **Lab ID: 92211691024** Collected: 07/31/14 10:52 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 07:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 07:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 07:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 07:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 07:54	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 07:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 07:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 07:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 07:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 07:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 07:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 07:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 07:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 07:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 07:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 07:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 07:54	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 07:54	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 07:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 07:54	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 07:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 07:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 07:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 07:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 07:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 07:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 07:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 07:54	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: DW-2 **Lab ID: 92211691025** Collected: 07/31/14 11:45 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 08:10	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 08:10	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 08:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 08:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 08:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 08:10	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 08:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 08:10	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 08:10	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 08:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 08:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 08:10	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 08:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 08:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 08:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 08:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 08:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 08:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 08:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 08:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 08:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 08:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 08:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 08:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 08:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 08:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 08:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 08:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 08:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 08:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 08:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 08:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 08:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 08:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 08:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 08:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 08:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 08:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:10	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: DW-2 **Lab ID: 92211691025** Collected: 07/31/14 11:45 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 08:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 08:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 08:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 08:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 08:10	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 08:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 08:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 08:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 08:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 08:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 08:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 08:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 08:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 08:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 08:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 08:10	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 08:10	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 08:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 08:10	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 08:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 08:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 08:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 08:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 08:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/07/14 08:10	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/07/14 08:10	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 08:10	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: RB-1 **Lab ID: 92211691026** Collected: 07/31/14 11:00 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 08:25	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 08:25	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 08:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 08:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 08:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 08:25	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 08:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 08:25	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 08:25	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 08:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 08:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 08:25	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 08:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 08:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 08:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 08:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 08:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 08:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 08:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 08:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 08:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 08:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 08:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 08:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 08:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 08:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 08:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 08:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 08:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 08:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 08:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 08:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 08:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 08:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 08:25	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 08:25	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 08:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 08:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:25	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: RB-1 **Lab ID: 92211691026** Collected: 07/31/14 11:00 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 08:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 08:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 08:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 08:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 08:25	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 08:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 08:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 08:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 08:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 08:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 08:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 08:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 08:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 08:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 08:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 08:25	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 08:25	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 08:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 08:25	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 08:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 08:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 08:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 08:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 08:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/07/14 08:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/07/14 08:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 08:25	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: FB-1 **Lab ID: 92211691027** Collected: 07/31/14 10:54 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 08:41	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 08:41	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 08:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 08:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 08:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 08:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 08:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 08:41	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 08:41	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 08:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 08:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 08:41	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 08:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 08:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 08:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 08:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 08:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 08:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 08:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 08:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 08:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 08:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 08:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 08:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 08:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 08:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 08:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 08:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 08:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 08:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 08:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 08:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 08:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 08:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 08:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 08:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 08:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		08/07/14 08:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:41	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: FB-1 **Lab ID: 92211691027** Collected: 07/31/14 10:54 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 08:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 08:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 08:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/07/14 08:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		08/07/14 08:41	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 08:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 08:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 08:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 08:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 08:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 08:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 08:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 08:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 08:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 08:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 08:41	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		08/07/14 08:41	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		08/07/14 08:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		08/07/14 08:41	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 08:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 08:41	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/07/14 08:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/07/14 08:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 08:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/07/14 08:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 08:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 08:41	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-1X **Lab ID: 92211691028** Collected: 07/31/14 13:03 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		08/07/14 08:57	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		08/07/14 08:57	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		08/07/14 08:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/07/14 08:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/07/14 08:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/07/14 08:57	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/07/14 08:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/07/14 08:57	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		08/07/14 08:57	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		08/07/14 08:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		08/07/14 08:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		08/07/14 08:57	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/07/14 08:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/07/14 08:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/07/14 08:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/07/14 08:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/07/14 08:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/07/14 08:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		08/07/14 08:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		08/07/14 08:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/07/14 08:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/07/14 08:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/07/14 08:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		08/07/14 08:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		08/07/14 08:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/07/14 08:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/07/14 08:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/07/14 08:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/07/14 08:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/07/14 08:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/07/14 08:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/14 08:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		08/07/14 08:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		08/07/14 08:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/07/14 08:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/07/14 08:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/07/14 08:57	108-20-3	
Ethylbenzene	**6.8**	ug/L	1.0	0.30	1		08/07/14 08:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		08/07/14 08:57	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/07/14 08:57	591-78-6	
Isopropylbenzene (Cumene)	**1.2**	ug/L	1.0	0.40	1		08/07/14 08:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		08/07/14 08:57	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Sample: MW-1X **Lab ID: 92211691028** Collected: 07/31/14 13:03 Received: 08/01/14 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/07/14 08:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/07/14 08:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/07/14 08:57	1634-04-4	
Naphthalene	**6.3**	ug/L	1.0	0.24	1		08/07/14 08:57	91-20-3	
n-Propylbenzene	**1.2**	ug/L	1.0	0.42	1		08/07/14 08:57	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		08/07/14 08:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/07/14 08:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/07/14 08:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/07/14 08:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/07/14 08:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		08/07/14 08:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		08/07/14 08:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/07/14 08:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/07/14 08:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/07/14 08:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/07/14 08:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/07/14 08:57	96-18-4	
1,2,3-Trimethylbenzene	**13.1**	ug/L	1.0	0.090	1		08/07/14 08:57	526-73-8	
1,2,4-Trimethylbenzene	**16.8**	ug/L	1.0	0.31	1		08/07/14 08:57	95-63-6	
1,3,5-Trimethylbenzene	**8.0**	ug/L	1.0	0.36	1		08/07/14 08:57	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/07/14 08:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/07/14 08:57	75-01-4	
Xylene (Total)	**15.8**	ug/L	2.0	0.66	1		08/07/14 08:57	1330-20-7	
m&p-Xylene	**15.8**	ug/L	2.0	0.66	1		08/07/14 08:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/07/14 08:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/07/14 08:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/07/14 08:57	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/07/14 08:57	2037-26-5	

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QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

QC Batch: MSV/27830 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92211691001, 92211691002, 92211691003, 92211691004, 92211691005, 92211691006, 92211691007, 92211691008, 92211691009, 92211691010, 92211691011, 92211691012, 92211691013, 92211691014, 92211691015, 92211691016, 92211691017, 92211691018, 92211691019, 92211691020

METHOD BLANK: 1257037 Matrix: Water
Associated Lab Samples: 92211691001, 92211691002, 92211691003, 92211691004, 92211691005, 92211691006, 92211691007, 92211691008, 92211691009, 92211691010, 92211691011, 92211691012, 92211691013, 92211691014, 92211691015, 92211691016, 92211691017, 92211691018, 92211691019, 92211691020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,1-Dichloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,1-Dichloroethene	ug/L	ND	1.0	08/07/14 01:22	
1,1-Dichloropropene	ug/L	ND	1.0	08/07/14 01:22	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/07/14 01:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/07/14 01:22	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/07/14 01:22	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	08/07/14 01:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/07/14 01:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:22	
1,2-Dichloroethane	ug/L	ND	1.0	08/07/14 01:22	
1,2-Dichloropropane	ug/L	ND	1.0	08/07/14 01:22	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:22	
1,3-Dichloropropane	ug/L	ND	1.0	08/07/14 01:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:22	
2,2-Dichloropropane	ug/L	ND	1.0	08/07/14 01:22	
2-Butanone (MEK)	ug/L	ND	5.0	08/07/14 01:22	
2-Chlorotoluene	ug/L	ND	1.0	08/07/14 01:22	
2-Hexanone	ug/L	ND	5.0	08/07/14 01:22	
4-Chlorotoluene	ug/L	ND	1.0	08/07/14 01:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/07/14 01:22	
Acetone	ug/L	ND	25.0	08/07/14 01:22	
Acrolein	ug/L	ND	10.0	08/07/14 01:22	
Benzene	ug/L	ND	1.0	08/07/14 01:22	
Bromobenzene	ug/L	ND	1.0	08/07/14 01:22	
Bromochloromethane	ug/L	ND	1.0	08/07/14 01:22	
Bromodichloromethane	ug/L	ND	1.0	08/07/14 01:22	
Bromoform	ug/L	ND	1.0	08/07/14 01:22	
Bromomethane	ug/L	ND	2.0	08/07/14 01:22	
Carbon disulfide	ug/L	ND	2.0	08/07/14 01:22	
Carbon tetrachloride	ug/L	ND	1.0	08/07/14 01:22	
Chlorobenzene	ug/L	ND	1.0	08/07/14 01:22	

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QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

METHOD BLANK: 1257037 Matrix: Water

Associated Lab Samples: 92211691001, 92211691002, 92211691003, 92211691004, 92211691005, 92211691006, 92211691007, 92211691008, 92211691009, 92211691010, 92211691011, 92211691012, 92211691013, 92211691014, 92211691015, 92211691016, 92211691017, 92211691018, 92211691019, 92211691020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	08/07/14 01:22	
Chloroform	ug/L	ND	1.0	08/07/14 01:22	
Chloromethane	ug/L	ND	1.0	08/07/14 01:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/07/14 01:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/07/14 01:22	
Dibromochloromethane	ug/L	ND	1.0	08/07/14 01:22	
Dibromomethane	ug/L	ND	1.0	08/07/14 01:22	
Dichlorodifluoromethane	ug/L	ND	1.0	08/07/14 01:22	
Diisopropyl ether	ug/L	ND	1.0	08/07/14 01:22	
Ethylbenzene	ug/L	ND	1.0	08/07/14 01:22	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/07/14 01:22	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/07/14 01:22	
m&p-Xylene	ug/L	ND	2.0	08/07/14 01:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/07/14 01:22	
Methylene Chloride	ug/L	ND	2.0	08/07/14 01:22	
n-Butylbenzene	ug/L	ND	1.0	08/07/14 01:22	
n-Propylbenzene	ug/L	ND	1.0	08/07/14 01:22	
Naphthalene	ug/L	ND	1.0	08/07/14 01:22	
o-Xylene	ug/L	ND	1.0	08/07/14 01:22	
p-Isopropyltoluene	ug/L	ND	1.0	08/07/14 01:22	
sec-Butylbenzene	ug/L	ND	1.0	08/07/14 01:22	
Styrene	ug/L	ND	1.0	08/07/14 01:22	
tert-Butyl Alcohol	ug/L	ND	50.0	08/07/14 01:22	
tert-Butylbenzene	ug/L	ND	1.0	08/07/14 01:22	
Tetrachloroethene	ug/L	ND	1.0	08/07/14 01:22	
Toluene	ug/L	ND	1.0	08/07/14 01:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/07/14 01:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/07/14 01:22	
Trichloroethene	ug/L	ND	1.0	08/07/14 01:22	
Trichlorofluoromethane	ug/L	ND	1.0	08/07/14 01:22	
Vinyl acetate	ug/L	ND	2.0	08/07/14 01:22	
Vinyl chloride	ug/L	ND	1.0	08/07/14 01:22	
Xylene (Total)	ug/L	ND	2.0	08/07/14 01:22	
1,2-Dichloroethane-d4 (S)	%	99	70-130	08/07/14 01:22	
4-Bromofluorobenzene (S)	%	100	70-130	08/07/14 01:22	
Toluene-d8 (S)	%	99	70-130	08/07/14 01:22	

LABORATORY CONTROL SAMPLE: 1257038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

LABORATORY CONTROL SAMPLE: 1257038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethane	ug/L	50	44.8	90	70-130	
1,1-Dichloroethene	ug/L	50	50.2	100	70-132	
1,1-Dichloropropene	ug/L	50	50.1	100	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	70-135	
1,2,3-Trichloropropane	ug/L	50	49.9	100	70-130	
1,2,3-Trimethylbenzene	ug/L	50	47.7	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-134	
1,2,4-Trimethylbenzene	ug/L	50	51.0	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane	ug/L	50	47.4	95	70-130	
1,2-Dichloropropane	ug/L	50	49.0	98	70-130	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	70-130	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,3-Dichloropropane	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
2,2-Dichloropropane	ug/L	50	41.0	82	58-145	
2-Butanone (MEK)	ug/L	100	91.0	91	70-145	
2-Chlorotoluene	ug/L	50	49.2	98	70-130	
2-Hexanone	ug/L	100	94.0	94	70-144	
4-Chlorotoluene	ug/L	50	50.1	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.7	93	70-140	
Acetone	ug/L	100	88.8	89	50-175	
Acrolein	ug/L	250	218	87	70-130	
Benzene	ug/L	50	49.2	98	70-130	
Bromobenzene	ug/L	50	49.8	100	70-130	
Bromochloromethane	ug/L	50	49.2	98	70-130	
Bromodichloromethane	ug/L	50	53.8	108	70-130	
Bromoform	ug/L	50	53.5	107	70-130	
Bromomethane	ug/L	50	46.0	92	54-130	
Carbon disulfide	ug/L	50	42.1	84	70-131	
Carbon tetrachloride	ug/L	50	51.2	102	70-132	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	42.9	86	64-134	
Chloroform	ug/L	50	52.9	106	70-130	
Chloromethane	ug/L	50	44.3	89	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	56.8	114	70-130	
Dibromomethane	ug/L	50	50.8	102	70-131	
Dichlorodifluoromethane	ug/L	50	53.3	107	56-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.6	103	70-130	

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QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

LABORATORY CONTROL SAMPLE: 1257038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	44.8	90	70-130	
Methylene Chloride	ug/L	50	47.8	96	63-130	
n-Butylbenzene	ug/L	50	50.9	102	70-130	
n-Propylbenzene	ug/L	50	50.6	101	70-130	
Naphthalene	ug/L	50	49.4	99	70-138	
o-Xylene	ug/L	50	50.1	100	70-130	
p-Isopropyltoluene	ug/L	50	50.9	102	70-130	
sec-Butylbenzene	ug/L	50	50.9	102	70-130	
Styrene	ug/L	50	51.8	104	70-130	
tert-Butyl Alcohol	ug/L	500	496	99	70-130	
tert-Butylbenzene	ug/L	50	52.0	104	70-130	
Tetrachloroethene	ug/L	50	51.0	102	70-130	
Toluene	ug/L	50	49.4	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.7	95	70-132	
Trichloroethene	ug/L	50	49.8	100	70-130	
Trichlorofluoromethane	ug/L	50	49.0	98	62-133	
Vinyl acetate	ug/L	100	94.0	94	66-157	
Vinyl chloride	ug/L	50	44.1	88	50-150	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258652 1258653

Parameter	Units	92211691004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	51.2	52.6	102	105	70-166	3	30	
Benzene	ug/L	ND	50	50	52.9	53.4	106	107	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	51.8	53.2	104	106	70-146	3	30	
Toluene	ug/L	ND	50	50	51.1	51.3	102	103	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	56.4	56.5	113	113	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

QC Batch: MSV/27831 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92211691021, 92211691022, 92211691023, 92211691024, 92211691025, 92211691026, 92211691027, 92211691028

METHOD BLANK: 1257052 Matrix: Water
Associated Lab Samples: 92211691021, 92211691022, 92211691023, 92211691024, 92211691025, 92211691026, 92211691027, 92211691028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,1-Dichloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,1-Dichloroethene	ug/L	ND	1.0	08/07/14 01:38	
1,1-Dichloropropene	ug/L	ND	1.0	08/07/14 01:38	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/07/14 01:38	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:38	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	08/07/14 01:38	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/07/14 01:38	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
1,2-Dichloroethane	ug/L	ND	1.0	08/07/14 01:38	
1,2-Dichloropropane	ug/L	ND	1.0	08/07/14 01:38	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/07/14 01:38	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
1,3-Dichloropropane	ug/L	ND	1.0	08/07/14 01:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
2,2-Dichloropropane	ug/L	ND	1.0	08/07/14 01:38	
2-Butanone (MEK)	ug/L	ND	5.0	08/07/14 01:38	
2-Chlorotoluene	ug/L	ND	1.0	08/07/14 01:38	
2-Hexanone	ug/L	ND	5.0	08/07/14 01:38	
4-Chlorotoluene	ug/L	ND	1.0	08/07/14 01:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/07/14 01:38	
Acetone	ug/L	ND	25.0	08/07/14 01:38	
Acrolein	ug/L	ND	10.0	08/07/14 01:38	
Benzene	ug/L	ND	1.0	08/07/14 01:38	
Bromobenzene	ug/L	ND	1.0	08/07/14 01:38	
Bromochloromethane	ug/L	ND	1.0	08/07/14 01:38	
Bromodichloromethane	ug/L	ND	1.0	08/07/14 01:38	
Bromoform	ug/L	ND	1.0	08/07/14 01:38	
Bromomethane	ug/L	ND	2.0	08/07/14 01:38	
Carbon disulfide	ug/L	ND	2.0	08/07/14 01:38	
Carbon tetrachloride	ug/L	ND	1.0	08/07/14 01:38	
Chlorobenzene	ug/L	ND	1.0	08/07/14 01:38	
Chloroethane	ug/L	ND	1.0	08/07/14 01:38	
Chloroform	ug/L	ND	1.0	08/07/14 01:38	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

METHOD BLANK: 1257052 Matrix: Water

Associated Lab Samples: 92211691021, 92211691022, 92211691023, 92211691024, 92211691025, 92211691026, 92211691027, 92211691028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	08/07/14 01:38	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/07/14 01:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/07/14 01:38	
Dibromochloromethane	ug/L	ND	1.0	08/07/14 01:38	
Dibromomethane	ug/L	ND	1.0	08/07/14 01:38	
Dichlorodifluoromethane	ug/L	ND	1.0	08/07/14 01:38	
Diisopropyl ether	ug/L	ND	1.0	08/07/14 01:38	
Ethylbenzene	ug/L	ND	1.0	08/07/14 01:38	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/07/14 01:38	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/07/14 01:38	
m&p-Xylene	ug/L	ND	2.0	08/07/14 01:38	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/07/14 01:38	
Methylene Chloride	ug/L	ND	2.0	08/07/14 01:38	
n-Butylbenzene	ug/L	ND	1.0	08/07/14 01:38	
n-Propylbenzene	ug/L	ND	1.0	08/07/14 01:38	
Naphthalene	ug/L	ND	1.0	08/07/14 01:38	
o-Xylene	ug/L	ND	1.0	08/07/14 01:38	
p-Isopropyltoluene	ug/L	ND	1.0	08/07/14 01:38	
sec-Butylbenzene	ug/L	ND	1.0	08/07/14 01:38	
Styrene	ug/L	ND	1.0	08/07/14 01:38	
tert-Butyl Alcohol	ug/L	ND	50.0	08/07/14 01:38	
tert-Butylbenzene	ug/L	ND	1.0	08/07/14 01:38	
Tetrachloroethene	ug/L	ND	1.0	08/07/14 01:38	
Toluene	ug/L	ND	1.0	08/07/14 01:38	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/07/14 01:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/07/14 01:38	
Trichloroethene	ug/L	ND	1.0	08/07/14 01:38	
Trichlorofluoromethane	ug/L	ND	1.0	08/07/14 01:38	
Vinyl acetate	ug/L	ND	2.0	08/07/14 01:38	
Vinyl chloride	ug/L	ND	1.0	08/07/14 01:38	
Xylene (Total)	ug/L	ND	2.0	08/07/14 01:38	
1,2-Dichloroethane-d4 (S)	%	99	70-130	08/07/14 01:38	
4-Bromofluorobenzene (S)	%	99	70-130	08/07/14 01:38	
Toluene-d8 (S)	%	99	70-130	08/07/14 01:38	

LABORATORY CONTROL SAMPLE: 1257053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.2	98	70-130	
1,1,1-Trichloroethane	ug/L	50	47.5	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	45.4	91	70-130	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

LABORATORY CONTROL SAMPLE: 1257053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	51.3	103	70-132	
1,1-Dichloropropene	ug/L	50	50.8	102	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.4	99	70-135	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,3-Trimethylbenzene	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	70-134	
1,2,4-Trimethylbenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.2	98	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	50.0	100	70-130	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	70-130	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,3-Dichloropropane	ug/L	50	48.6	97	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
2,2-Dichloropropane	ug/L	50	41.3	83	58-145	
2-Butanone (MEK)	ug/L	100	89.0	89	70-145	
2-Chlorotoluene	ug/L	50	49.7	99	70-130	
2-Hexanone	ug/L	100	92.9	93	70-144	
4-Chlorotoluene	ug/L	50	49.8	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.0	92	70-140	
Acetone	ug/L	100	88.2	88	50-175	
Acrolein	ug/L	250	223	89	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Bromobenzene	ug/L	50	49.8	100	70-130	
Bromochloromethane	ug/L	50	50.0	100	70-130	
Bromodichloromethane	ug/L	50	55.1	110	70-130	
Bromoform	ug/L	50	53.5	107	70-130	
Bromomethane	ug/L	50	45.8	92	54-130	
Carbon disulfide	ug/L	50	42.5	85	70-131	
Carbon tetrachloride	ug/L	50	53.0	106	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	44.3	89	64-134	
Chloroform	ug/L	50	52.4	105	70-130	
Chloromethane	ug/L	50	42.8	86	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	56.9	114	70-130	
Dibromomethane	ug/L	50	52.0	104	70-131	
Dichlorodifluoromethane	ug/L	50	52.6	105	56-130	
Diisopropyl ether	ug/L	50	44.7	89	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	70-130	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	70-130	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

LABORATORY CONTROL SAMPLE: 1257053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	47.9	96	63-130	
n-Butylbenzene	ug/L	50	50.4	101	70-130	
n-Propylbenzene	ug/L	50	50.3	101	70-130	
Naphthalene	ug/L	50	48.8	98	70-138	
o-Xylene	ug/L	50	50.2	100	70-130	
p-Isopropyltoluene	ug/L	50	50.4	101	70-130	
sec-Butylbenzene	ug/L	50	50.6	101	70-130	
Styrene	ug/L	50	51.8	104	70-130	
tert-Butyl Alcohol	ug/L	500	466	93	70-130	
tert-Butylbenzene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	50.2	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	70-132	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	49.8	100	62-133	
Vinyl acetate	ug/L	100	95.7	96	66-157	
Vinyl chloride	ug/L	50	44.8	90	50-150	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257858 1257859

Parameter	Units	92211691023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	42.0	49.2	84	98	70-166	16	30	
Benzene	ug/L	ND	50	50	42.4	50.7	85	101	70-148	18	30	
Chlorobenzene	ug/L	ND	50	50	41.4	50.0	83	100	70-146	19	30	
Toluene	ug/L	ND	50	50	40.7	48.8	81	98	70-155	18	30	
Trichloroethene	ug/L	ND	50	50	45.4	54.1	91	108	69-151	17	30	
1,2-Dichloroethane-d4 (S)	%						98	98	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RD Pate Estate 07-7019.13
Pace Project No.: 92211691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92211691001	**MW-1**	EPA 8260	MSV/27830		
92211691002	**MW-2**	EPA 8260	MSV/27830		
92211691003	**MW-3**	EPA 8260	MSV/27830		
92211691004	**MW-4**	EPA 8260	MSV/27830		
92211691005	**MW-5**	EPA 8260	MSV/27830		
92211691006	**MW-6**	EPA 8260	MSV/27830		
92211691007	**MW-7**	EPA 8260	MSV/27830		
92211691008	**MW-8**	EPA 8260	MSV/27830		
92211691009	**MW-8 DUP**	EPA 8260	MSV/27830		
92211691010	**MW-9**	EPA 8260	MSV/27830		
92211691011	**MW-10**	EPA 8260	MSV/27830		
92211691012	**MW-11**	EPA 8260	MSV/27830		
92211691013	**MW-12**	EPA 8260	MSV/27830		
92211691014	**MW-13**	EPA 8260	MSV/27830		
92211691015	**MW-14**	EPA 8260	MSV/27830		
92211691016	**MW-15**	EPA 8260	MSV/27830		
92211691017	**MW-16**	EPA 8260	MSV/27830		
92211691018	**MW-17**	EPA 8260	MSV/27830		
92211691019	**MW-18**	EPA 8260	MSV/27830		
92211691020	**MW-19**	EPA 8260	MSV/27830		
92211691021	**MW-20**	EPA 8260	MSV/27831		
92211691022	**MW-21**	EPA 8260	MSV/27831		
92211691023	**MW-22**	EPA 8260	MSV/27831		
92211691024	**TB-1**	EPA 8260	MSV/27831		
92211691025	**DW-2**	EPA 8260	MSV/27831		
92211691026	**RB-1**	EPA 8260	MSV/27831		
92211691027	**FB-1**	EPA 8260	MSV/27831		
92211691028	**MW-1X**	EPA 8260	MSV/27831		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Enviro Assessment

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 (T1401) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 2.8 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: EO 8/1/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	**Date:**	8-1-14
SRF Review:	NMG	**Date:**	8-4-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

OR 92211691

Handwrite project number (if no label available)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

1842032

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 Monroe Rd, Ste 175
Charlotte, NC 28270
Email To: mike McDermott
Phone: 704-846-8853 Fax: 704-846-3271
Requested Due Date/TAT: standard / 5 DAY

Section B Required Project Information:

Report To: mike McDermott
Copy To: Cliff Lundgren
Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate Estate
Project Number: 07-7019.13

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: Angela Baioni
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: 8260

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			7/31/14	1620		3				3					X		001
2	MW-2						1230													002
3	MW-3						1325													003
4	MW-4						1138													004
5	MW-5						1538													005
6	MW-6						1425													006
7	MW-7						1222													007
8	MW-8						1452													008
9	MW-8 DUP						1455													009
10	MW-9						1525													010
11	MW-10						1617													011
12	MW-11						1750													012

92211691

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / EA	8/1/14	1035	S Moody Pace	08-01-14	10:35				
	S Moody	08-01-14	16:30	[signature] / PACE	8/1/14	1630	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: mike McDermott

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/31/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1842033

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 monroe Rd, ste 175, Charlotte, NC 28270
Email To: mike McDermott
Phone: 704-846-8853 Fax: 704-846-3271
Requested Due Date/TAT: Standard / 5 DAY

Section B Required Project Information:

Report To: Mike McDermott
Copy To: Cliff Lundgren, Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate Estate
Project Number: 07-7019.13

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: Angela Baioni
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Analysis Test: 8260

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-12	WT	G			7/31/14	1710		3				3					+		92211691 013
2	MW-13						1658													014
3	MW-14						1048													015
4	MW-15						0915													016
5	MW-16						1105													017
6	MW-17						1015													018
7	MW-18						1738													019
8	MW-19						1407													020
9	MW-20						1332													021
10	MW-21						1012													022
11	MW-22						0923													023
12	TB-1						1052		2				2							024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / EA	8/1/14	1035	[signature] Pace	08-01-14	10:35				
	[signature] / EA	8-1-14	16:30	[signature] PACE	8/1/14	1630	2.8	Y	N	N

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MikeMcDermott
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/31/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1842030

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 monroe Rd, ste 5
charlotte, NC 28270
Email To: mike McDermott
Phone: 704-846-8853 Fax: 704-846-3271
Requested Due Date/TAT: Standard/5DAY

Section B Required Project Information:

Report To: Mike McDermott
Copy To: Cliff Lundgren
Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate Estate
Project Number: 07-7019.13

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: Angela Baioni
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DW-2	WT	G			7/31/14	1145		3				3					X		92211691 025
2	RB-1	↓	↓			↓	1100		↓				↓					↓		026
3	FB-1	↓	↓			↓	1054		↓				↓					↓		027
4	MW-1X	↓	↓			↓	1303		↓				↓					↓		028
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] /EA	8/1/14	1035	[signature] Pace	08-01-14	10:35				
	[signature]	08-01-14	16:30	[signature] PACE	8/1/14	1630	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: mike mc Dermott

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/31/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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